

3072

Book "B"
4-679

Dec 31, 1917

BOOK 3072

BOOK 3072

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION LINES

of

TOWNSHIP 7 SOUTH, RANGE 1 EAST,

Of the Gila and Salt River Base and Meridian,

In the State of Arizona.

EXECUTED BY

W. H. Thorn

and

W. G. Shapcott,

*In the capacity of U. S. Surveyors, under instructions dated October 8,, 1915,
issued by the United States Surveyor General to govern surveys included in
Group No. 58, which were approved by the Commissioner of the General Land
Office, December 17,, 1915.*

Survey commenced December 27,, 1915.

Survey completed January 12,, 1916.

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BOOK 3072

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- Surveyed under this group--notes in this book.
- Surveyed under this group--notes in book "A".
- Surveyed or resurveyed under group No. 38.
- Unsurveyed.

Subdivision of T.7 S., R.1 E.

1 B

Chains

Survey commenced Dec. 28, 1915, and executed with Young and Son's light mountain transit No.8592, as described in book "A".

From solar tests taken throughout the day on the south boundary of the tp., which has been tested by observations on Polaris, I know the transit and solar attachment to be in satisfactory adjustment.

At 2h., p.m., l.m.t., I set off 32° 46' N. on the lat. arc; 23° 17' S. on the decl. arc; and determine a mer. with the solar at the cor. of secs. 1, 2, 35 and 36, S. bdy. of tp., heretofore described.

Thence N. 0° 1' W. bet. secs. 35 and 36.

Over gently rolling land, through scattering timber and undergrowth.

- 3.50 Wash, 15 lks. wide, 2 ft. deep, course, S. 80° W.
- 13.60 Wash 30 lks. wide, 4 ft. deep, course, W.
- 21.80 Wash, 20 lks. wide, 4 ft. deep, course, W.
- 24.80 Wash, 20 lks. wide, 3 ft. deep, course, S. 80° W.
- 38.40 Wash, 20 lks. wide, 4 ft. deep, course, S. 70° W.
- 40.00 Set an iron post 3ft. long, 1 in. in diam., 26 ins. in the ground for 1/4 sec. cor. with brass cap mkd.

S 35 1/4 : S 36
1915

- 54.30 Build a mound of stone, 3 ft. base, 2 1/2 ft. high W. of cor.
- 66.70 Wash, 20 lks. wide, 2 ft. deep, course, N. 70° W.
- 80.00 Wash, 20 lks. wide, 3 ft. deep, course, W.
- 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 mkd.

T 7 S R 1 E
S 26 : S 25
S 35 : S 36
1915

Build a mound of stone, 3 ft. base, 2 ft. high W. of cor. Land, gently rolling. Soil, stony and gravelly, with surface covered with malpais rocks, 4th rate. Timber, scattering palo verde and iron wood. Undergrowth, greasewood brush, ocotillos and cacti.

- 40.00 East on a random line bet. secs. 25 and 36.
- 79.97 Set temp, 1/4 sec. cor. Intersect E. bdy. of tp. 3 lks. S. of cor. of secs. 25, 30, 31 and 36, which is an iron post 3 ins. in diam., properly set, mkd. and witnessed as described by the Surveyor General.

Thence S. 89° 59' W. on a true line bet. secs. 25 and 36. Over gently rolling land, through scattering timber and undergrowth.

- 12.80 Wash, 40 lks. wide, 5 ft. deep, course, N. 70° W.
- 39.98 1/2 Set an iron post, 3 ins. long, 1 in. in diam., on surface rock, in a mound of stone, 4 ft. base, 2 1/2 ft. high for 1/4 sec. cor. with brass cap mkd.

S 25
S 36

Pits impracticable. 1915

- 52.20 Build a mound of stone, 3 ft. base, 2 ft. high N. of cor.
- 79.97 Wash, 40 lks. wide, 5 ft. deep, course, N. 70° W. Thence over gradual W. slope, to Cor. of secs. 25, 26, 35 and 36. Land, gently rolling. Soil, gravelly covered with malpais rock, 4th rate. Timber, scattering palo verde and iron wood. Undergrowth, greasewood brush, ocotillos and cacti.

2.

Subdivision of T.7 S., R.1 E.

Chains

N. 0° 1' W. bet. secs. 25 and 26.
Over gently rolling land, through scattering timber and undergrowth.

- 9.60 Wash, 40 lks. wide, 4 ft. deep, course, W.
- 29.30 Ravine 80 lks. wide, 12 ft. deep, course, N. 70° W.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor. with brass cap mkd.

S 26: S 25
1915

Build a mound of stone, 3 ft. base, 2 ft. high W. of cor. At this cor. I set off 32° 47' N. on the lat. arc; 22° 53' S. on the decl. arc; and determine a mer. with the solar. (Jan. 3, 1916.)

- 48.00 Wash, 40 lks. wide, 8 ft. deep, course, W.
- 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 mkd.

T 7 S R 1 E
S 23: S 24
S 26: S 25
1918

from which,
An iron wood, 8 ins. in diam., brs. S. 13° E. 231 lks. dist. mkd. T 7 S R 1 E S 25 B T.

No other trees within limits.
Build a mound of stone, 3 ft. base, 2 ft. high W. of cor. Land, gently rolling.
Soil, gravelly, with malpais rocks on surface, 3rd rate. Timber, palo verde and iron wood.
Undergrowth, greasewood brush, ocotillos and cacti.

- 40.00 East on a random line bet. secs. 24 and 25.
- 80.02 Set temp. $\frac{1}{4}$ sec. cor. Intersect E. bdy. of tp. 7 lks. S. of cor. of secs. 19, 24, 25 and 30, which is an iron post 3 ins. in diam., properly set, mkd. and witnessed as described by the Surveyor General.

Thence
S. 89° 57' W. on a true line bet. secs. 24 and 25. Over gently rolling land, through scattering timber and undergrowth.

- 40.01 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, 2 ft. high, for $\frac{1}{4}$ sec. cor. with brass cap mkd.

S 24
S 25
1915

Pits impracticable.
Build a mound of stone, 3 ft. base, 2 ft. high N. of cor. Wash, 40 lks. wide, 6 ft. deep, course, N. 70° W. Cor. of secs. 23, 24, 25 and 26.

- 40.60 Land, rolling.
- 80.02 Soil, gravelly, with surface covered with malpais rocks 3rd rate. Timber, scattering palo verde and iron wood. Undergrowth, greasewood brush, ocotillos and cacti.

N. 0° 1' W. bet. secs. 23 and 24. Over gently rolling land, through scattering timber and undergrowth.

- 5.00 At this point, I set off 22° 53' S. on the decl. arc; and at apparent noon observe the sun on the mer.; the resulting lat. is 32° 48' N.
- 15.00 Wash, 40 lks. wide, 4 ft. deep, course, N. 70° W.
- 30.80 Road, Maricopa to Vekol, brs. NE. and SW.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor. with brass cap mkd.

Subdivision of T.7 S. R.1 E.

Chains	
	<p>S 23 1/2 S 24 1916</p> <p>Build a mound of stone, 3 ft. base, 2 ft. high W. of cor. Wash, 30 lks. wide, 2 ft. deep, course, N. 60° W. Wash, 20 lks. wide, 2 ft. deep, course, N. 60° W. Wash, 40 lks. wide, 4 ft. deep, course, N. 60° W. Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 13, 14, 23 and 24, with brass cap mkd.</p> <p>T 7 S R 1 E S 14:S 13 S 23:S 24 1916</p> <p>from which, An iron wood, 5 ins. in diam., brs. N. 82 1/4° E. 132 lks. dist. mkd. T 7 S R 1 E S 13 B T. An iron wood, 6 ins. in diam., brs. S. 83 3/4° W. 97 lks. dist. mkd. T 7 S R 1 E S 23 B T. No other trees within limits. Build a mound of stone, 3 ft. base, 2 ft. high W. of cor. Land, gently rolling. Soil, gravelly, surface covered with malpais rock, 3rd rate. Timber, scattering palo verde and iron wood. Undergrowth, greasewood brush, ocotillos and cacti.</p>
40.00	East on a random line bet. secs. 13 and 24.
80.04	Set temp. 1/4 sec. cor. Intersect E. bdy. of tp. 14 lks. S. of cor. of secs. 13, 18, 19 and 24, which is an iron post 3 ins. in diam., properly set, mkd. and witnessed as described by the Surveyor General.
	Thence
	S 89° 54' W. on a true line bet. secs. 13 and 24.
	Over gently rolling land, through scattering timber and undergrowth.
20.60	Wash, 30 lks. wide, 3 ft. deep, course, NW.
40.02	Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for 1/4 sec. cor. with brass cap mkd.
	S 13 S 24 1916
55.60	Build a mound of stone, 3 ft. base, 2 ft. high N. of cor.
80.04	Road, Maricopa - Vekol, brs. NE. and SW. Cor. of secs. 13, 14, 23 and 24. Land, gently rolling. Soil, gravelly, surface covered with malpais rocks, 3rd rate. Timber, scattering palo verde and iron wood. Undergrowth, greasewood brush, ocotillos and cacti.
	N. 0° 1' W. bet. secs. 13 and 14. Over gently rolling land, through scattering timber and undergrowth.
31.10	Wash, 40 lks. wide, 4 ft. deep, course, N. 60° W.
40.00	Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for 1/4 sec. cor. with brass cap mkd.
	S 14 1/2 S 13 1916
45.80	Build a mound of stone, 3 ft. base, 2 ft. high W. of cor.
72.60	Wash, 20 lks. wide, 3 ft. deep, course, NW.
79.00	Wash, 40 lks. wide, 5 ft. deep, course, N. 50° W.
80.00	Wash, 40 lks. wide, 5 ft. deep, course, N. 40° W. Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 11, 12, 13 and 14, with brass cap mkd.
	T 7 S R 1 E S 11:S 12 S 14:S 13 1916
	Build a mound of stone, 3 ft. base, 2 ft. high W. of cor.

4.

Subdivision of T.7 S. R.1 E.

Chains

Land, gently rolling.
Soil, gravelly, surface covered with malpais rocks,
3rd rate.
Timber, scattering palo verde and iron wood,
Undergrowth, greasewood brush, ocotillos and cacti.

(Jan. 4, 1916.) At 8h., a.m., l.m.t., I set off 32° 49' N.
on the lat. arc; 22° 46' S. on the decl. arc; and
determine a mer. with the solar, at the cor. of secs.
11, 12, 13 and 14.

Thence

East . . . on a random line bet. secs. 12 and 13.

40.00

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

79.97

Intersect E. bdy. of tp. 10 lks. N. of cor. of secs.
7, 12, 13 and 18, which is an iron post 3 ins. in diam.
properly set, mkd. and witnessed as described by the
Surveyor General.

Thence

S. 89° 56' W. on a true line bet. secs. 12 and 13.

Over gently rolling land, through scattering timber and
undergrowth.

22.10

Road, Maricopa to Vekol, brs. NE. and SW.

27.10

Wash, 30 lks. wide, 3 ft. deep, course, N. 20° W.

39.98 $\frac{1}{2}$

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.

S 12
+
S 13
1916

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.

41.00

Wash, 20 lks. wide, 3 ft. deep, course, NW.

56.40

Wash, 30 lks. wide, 3 ft. deep, course, N. 20° W.

74.20

Wash, 20 lks. wide, 3 ft. deep, course, NW.

79.97

Cor. of secs. 11, 12, 13 and 14.

Land, gently rolling.

Soil, gravelly, with surface covered with malpais rock,
3rd rate.

Timber, scattering paloverde and iron wood.

Undergrowth, greasewood brush, ocotillos and cacti.

N. 0° 1' W. bet. secs. 11 and 12.

Over gently rolling land, through scattering timber and
undergrowth.

6.00

Wash, 20 lks. wide, 3 ft. deep, course, NW.

25.30

Wash, 15 lks. wide, 2 ft. deep, course, N. 40° 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.

S 11: S 12
1916

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.

59.40

Wash, 30 lks. wide, 3 ft. deep, course, W.

80.00

Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in
the ground for cor. of secs. 1, 2, 11 and 12, with
brass cap mkd.

T 7 S R 1 E
S 2 : S 1
S 11 : S 12
1916

from which,

An iron wood, 6 ins. in diam., brs. N. 83° 35' E.
109 lks. dist. mkd. T 7 S R 1 E S 1 B T.

No other trees within limits.

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.

Subdivision of T.7 S., R.1 E.

Chains

Land, gently rolling.
Soil, sandy loam, gravel surface, 2nd rate.
Timber, scattering iron wood and palo verde.
Undergrowth, greasewood brush, ocotillos and cacti.

40.00 East . . . on a random line bet. secs. 1 and 12.
79.98 Set temp. $\frac{1}{4}$ sec. cor.
Intersect E. bdy. of tp. 11 lks. S. of cor of secs.
1, 6, 7 and 12, which is an iron post 3 ins. in
diam., properly set, mkd. and witnessed as described
by the Surveyor General.

Thence
S. 89° 55' W. on a true line bet. secs. 1 and 12.
Over nearly level land, through scattering timber and
undergrowth.

30.00 Wash, 40 lks. wide, 3 ft. deep, course, N. 60° W.
39.99 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
the ground for $\frac{1}{4}$ sec. cor. with brass cap mkd.

S 11
+
S 12
1916

Dig pits 18 X 18 X 12 ins. E. and W. of cor. 3rt. dist.
and raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high
N. of cor.

70.20 Wash, 20 lks. wide, 2 ft. deep, course, NW.
75.90 Wash, 50 lks. wide, 2 ft. deep, course, NW.
78.70 Wash, 15 lks. wide, 2 ft. deep, course, N. 60° W.
79.98 Cor. of secs. 1, 2, 11 and 12.

Land, nearly level.
Soil, sandy loam, 2nd rate.
Timber, scattering palo verde and iron wood.
Undergrowth, greasewood brush, ocotillos and cacti.

40.00 N. 0° 1' W. on a random line bet. secs. 1 and 2.
80.12 Set temp. $\frac{1}{4}$ sec. cor.
Intersect N. bdy. of tp. at the cor. of secs. 1, 2, 35 and
36, as established by W.K.Kierulff, U.S. Transitman,
and described in book "A".

Thence
S. 0° 1' E. on a true line bet. secs. 1 and 2.
Over level land, through scattering timber and under-
growth.

40.12 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.

S 2 1/4 S 1
1916

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

61.10 Wash, 20 lks. wide. 2 ft. deep, course, W.
63.80 Wash, 20 lks. wide, 2 ft. deep, course, W.
70.10 Wash, 30 lks. wide, 2 ft. deep, course, W.
75.80 Wash, 50 lks. wide, 2 ft. deep, course, NW.
80.12 Wash, 15 lks. wide, 2 ft. deep, course, NW.

Cor. of secs. 1, 2, 11 and 12.
Land, level, and gently rolling.
Soil, sandy loam, 1st rate, 50 to 80 chs. remainder
gravelly, 3rd rate.
Timber, scattering iron wood and palo verde.
Undergrowth, greasewood brush, ocotillos and cacti.

Jan. 5, 1916, at 9h. 30m., a.m., l.m.t., I set off 32° 46'
N. on the lat. arc; 22° 41' S. on the decl. arc; and
determine a mer. with the solar, at the cor. of secs.
2, 3, 34 and 35, S. bdy. of tp., heretofore described.

Chains

Thence
 N. $0^{\circ} 1'$ W. bet. secs. 34 and 35.
 Over level land, through greasewood brush.
 3.60 Wash, 2⁰ lks. wide, 4 ft. deep, course, NE.
 30.00 Wash, 20 lks. wide, 4 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.
 S 34 $\frac{1}{4}$:S 35
 1916

Dig pits 18 X 18 X 12 ins. N. and S. of cor. 3rd dist.
 and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high
 W. of cor.

47.80 Enter Wash, 140 lks. wide, 6 ft. deep, course, from SE. to
 N.

65.40 Leave same wash, course, NW.

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 mkd.

T 7 SR 1 E
 S 27:S 26
 S 34:S 35
 1916

from which,

A mesquite, 6 ins. in diam., brs, S. $7\frac{1}{2}^{\circ}$ E.

31 lks. dist. mkd. T 7 S.R 1 E S 35 B T.

A mesquite, 10 ins. in diam., brs. S. $0^{\circ} 30'$ W.

32 lks. dist. mkd. T 7 S R 1 E S 34 B T.

No other trees within limits.

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, level.

Soil, sandy loam, and gravelly, 2nd rate.

Timber, scattering palo verde, iron wood and mesquite.

Undergrowth, greasewood brush, ocotillos and cacti.

40.00 East on a random line bet. secs. 26 and 35.
 80.04 Set temp. $\frac{1}{4}$ sec. cor.
 Intersect N. and S. line, 2 lks. N. of cor. of secs. 25,
 26, 35 and 36.

Thence

N. $89^{\circ} 59'$ W. on a true line bet. secs. 26 and 35.

Over level and rolling, land, through scattering timber
 and undergrowth.

40.02 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.

S 26
 S 35
 1916

44.20 Build a mound of stone, 3 ft. base, 2 ft. high N. of cor.
 70.00 Road, Maricopa to Vekol, brs. NE. and SW.

Thence over level land.

71.70 Wash, 15 lks. wide, 1 ft. deep, course, NW.

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

Land, level and rolling.

Soil, sandy loam, and gravel, 2nd rate.

Timber, scattering palo verde and iron wood, and mesquite.

Undergrowth, greasewood brush, ocotillos and cacti.

20.00 N. $0^{\circ} 1'$ W. bet. secs. 26 and 27.
 23.50 Over level land, through scattering timber and undergrowth.
 39.10 Change to gently rolling land, covered with malpais rock.
 40.00 Wash, 20 lks. wide, 2 ft. deep, course, N. 60° W.
 Wash, 15 lks. wide, 1 ft. deep, course, N. 80° W.
 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
 the ground for $\frac{1}{4}$ sec. cor. with brass cap mkd.

S 27 $\frac{1}{4}$:S 26
 1916

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

Subdivision of T.7 S., R.1 E.

Chains	Wash, 15 lks. wide, 3 ft. deep, course, N. 70° W.
54.00	Wash, 40 lks. wide, 4 ft. deep, course, W.
63.80	Wash, 20 lks. wide, 3 ft. deep, course, N. 70° W.
79.30	Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 22, 23, 26 and 27, with brass cap mkd.
80.00	
	T 7 S R 1 E S 22:S 23 S 27:S 26 1916
	Build a mound of stone 3 ft. base, 2 ft. high W. of cor. Land, level to 20 chs., remainder, rolling. Soil, sandy loam and gravel, 1st and 2nd rates. Timber, scattering palo verde and iron wood. Undergrowth, greasewood, ocotillos and cacti.
	East on a random line bet. secs. 23 and 26.
40.00	Set temp. ¼ sec. cor.
80.10	Intersect N. and S. line, 5 lks. S. of cor. of secs. 23, 24, 25 and 26.
	Thence
	S. 89° 58' W. on a true line bet. secs. 23 and 26.
	Over gently rolling land, through scattering timber and undergrowth.
8.00	Wash, 20 lks. wide, 2 ft. deep, course, NW.
12.70	Road, Maricopa to Vekol. brs. NE. and SW.
40.05	Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for ¼ sec. cor. with brass cap mkd.
	S 23 S 26 1916
	Build a mound of stone, 3 ft. base, 2 ft. high N. of cor.
50.10	Wash, 25 lks. wide, 5 ft. deep, course, NW.
51.60	Wash, 40 lks. wide, 6 ft. deep, course, NW.
61.40	Wash, 60 lks. wide, 8 ft. deep, course, NW.
80.10	Cor. of secs. 22, 23, 26 and 27.
	Land, gently rolling.
	Soil, sandy loam, gravel surface, covered with malpais rock, 3rd rate.
	Timber, scattering palo verde and iron wood.
	Undergrowth, greasewood brush, ocotillos and cacti.
	N. 0° 1' W. bet. secs. 22 and 23.
	Over gently rolling land, through scattering timber and undergrowth.
19.40	Wash, 25 lks. wide, 4 ft. deep, course, NW.
31.40	Wash, 15 lks. wide, 2 ft. deep, course, NW.
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.
	S 22:¼:S 23 1916
	Dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 ft. dist. and raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor.
43.10	Wash, 20 lks. wide, 2 ft. deep, course, NW.
76.30	Wash, 20 lks. wide, 2 ft. deep, course, NW.
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 brasscap mkd.
	T 7 S R 1 E S 15:S 14 S 22:S 23 1916
	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, to 40 chs., remainder, level.
	Soil, sandy, gravel surface, 2nd rate.

8. Subdivision of T.7 S., R.1 E.

Chains	
	East on a random line bet. secs. 14 and 23.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.08	Intersect N. and S. line 2 lks. S. of cor. of secs. 13, 14, 23 and 24.
	Thence
	S. $89^{\circ} 59'$ W. on a true line bet. secs. 14 and 23.
	Over gently rolling land, through scattering timber and undergrowth.
10.10	Wash, 40 lks. wide, 2 ft. deep, course, NW.
25.30	Wash, 20 lks. wide, 2 ft. deep, course, NW.
37.90	Wash, 15 lks. wide, 2 ft. deep, course, NW.
40.04	Set an iron post 3 ft. long, 1 in. in diam., on surface rock, in a mound of stone, 3 ft. base, 2 ft. high, for $\frac{1}{4}$ sec. cor. with brass cap mkd.
	S 14 + S 23
	Pits impracticable. 1916
80.08	Build a mound of stone, 3 ft. base, 2 ft. high N. of cor. Cor. of secs. 14, 15, 22 and 23.
	Land, level. and gently rolling.
	Soil, gravelly, 3rd rate.
	Timber, scattering palo verde and iron wood.
	Undergrowth, greasewood brush, ocotillos and cacti.
	N. $0^{\circ} 1'$ W. bet. secs. 14 and 15.
	Over gently rolling land, through scattering timber and undergrowth.
23.00	Wash, 20 lks. wide, 4 ft. deep, course, N. 80° W.
33.00	Wash, 20 lks. wide, 4 ft. deep, course, N. 70° W.
40.00	Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor. with brass cap mkd.
	S 15 : S 14 1916
	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.
40.90	Wash, 20 lks. wide, 2 ft. deep, course, N. 70° W.
45.30	Wash, 15 lks. wide, 1 ft. deep, course, NW.
69.20	Wash, 30 lks. wide, 3 ft. deep, course, NW.
80.00	Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 10, 11, 14 and 15, with brass cap mkd.
	T 7 S R 1 E S 10 : S 11 S 15 : S 14 1916
	from which,
	An iron wood, 12 ins. in diam., brs. S. 38° W. 77 lks. dist. mkd. T 7 S R 1 E S 15 B T.
	No other trees within limits.
	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, gently rolling, last half, nearly level.
	Soil, sandy loam, with gravel surface, 2nd rate.
	Timber, palo verde and iron wood.
	Undergrowth, greasewood brush, ocotillos and cacti.
	East on a random line bet. secs. 11 and 14.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.08	Intersect N. and S. line at cor. of secs. 11, 12, 13 and 14.
	Thence

Subdivision of T.7 S., R.1 E.

Chains

West on a true line bet. secs. 11 and 14.
 Over nearly level land, through scattering timber and undergrowth.
 3.88 Wash, 40 lks. wide, 5 ft. deep, course, NW.
 16.68 Wash, 50 lks. wide, 5 ft. deep, course, NW.
 27.30 Wash, 50 lks. wide, 2 ft. deep, course, NW.
 40.04 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor. with brass cap mkd.

$\frac{1}{4}$
 S 11
 S 14
 1916

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.
 48.30 Wash, 40 lks. wide, 5 ft. deep, course, NW.
 80.08 Cor. of secs. 10, 11, 14 and 15.
 Land, nearly level to 40 chs. remainder rolling.
 Soil, sandy loam, with gravel, 2nd rate.
 Timber, scattering palo verde and iron wood.
 Undergrowth, greasewood brush, ocotillos and cacti.

N. 0° 1' W. bet. secs. 10 and 11.
 Over nearly level land, through dense brush.
 20.40 Wash, 15 lks. wide, 2 ft. deep, course, 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. with brass cap mkd.

S 10 $\frac{1}{4}$: S 11
 1916

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.
 46.40 Wash, 15 lks. wide, 3 ft. deep, course, NW.
 55.40 Wash, 20 lks. wide, 2 ft. deep, course, NW.
 80.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 2, 3, 10 and 11, with brass cap mkd.

T 7 S R 1 E
 S 3 : S 2
 S 10 : S 11
 1916

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, Nearly level.
 Soil, sandy loam, 2nd rate.
 Timber, Palo verde and iron wood.
 Undergrowth, greasewood brush, ocotillos and cacti.

East on a random line bet. secs. 2 and 11.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.05 Intersect N. and S. line, 4 lks. N. of cor. of secs. 1, 2, 11 and 12.

Thence I run
 N. 89° 58' W. on a true line bet. secs. 2 and 11.
 Over level land, through scattering timber and undergrowth.
 25.00 Leave level land, brs. NW. and SE.; enter land covered with malpais rock; asc. NE. slope, 30 ft. to
 35.00 Top of low ridge brs. NW. and SE.
 Desc. SW. slope.

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 11
 1916

Build a mound of stone, 3 ft. base, 2 ft. high N. of cor.
 47.50 Foot of descent brs. NW. and SE.
 55.60 Wash, 25 lks. wide, 2 ft. deep, course, NW.

10.

Subdivision of T.7 S. R.1 E.

Chains

76.80

Wash, 15 lks. wide, 2 ft. deep, course, NW.

80.05

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

Land, level and rolling.

Soil, sandy loam, 1st rate and stony, 4th rate.

Timber, scattering palo verde and iron wood.

Undergrowth, greasewood brush, ocotillos and cacti.

40.00

North on a random line bet. secs. 2 and 3.

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

80.02

Intersect N. bdy. of tp. 7 lks. W. of cor. of secs. 2, 3, 34, and 35, heretofore described.

Thence

S. $0^{\circ} 3'$ W. on a true line bet. secs. 2 and 3.

Over level land, through scattering timber and undergrowth.

20.80

Wash, 20 lks. wide, 2 ft. deep, course, W.

28.20

Wash, 80 lks. wide, 3 ft. deep, course, NW.

40.02

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.S $3\frac{1}{4}$:S 2

1916

Dig pits 18 X 18 X 12 ins. N. and S. of cor. 3ft. dist. and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.

49.70

Wash, 25 lks. wide, 3 ft. deep, course, NW.

76.00

Wash, 15 lks. wide, 2 ft. deep, course, NW.

80.02

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

Land, level.

Soil, sandy loam, 1st rate.

Timber, scattering palo verde, iron wood and mesquite.

Undergrowth, greasewood brush, ocotillos and cacti.

N. $0^{\circ} 2'$ W. bet. secs. 33 and 34.

Over gently rolling land, through scattering timber and undergrowth.

10.30

Wash, 20 lks. wide, 4 ft. deep, course, NE.

12.40

Wash, 20 lks. wide, 4 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.S $33\frac{1}{4}$:S 34

1916

from which,

An iron wood, 5 ins. in diam., brs. N. 6° E.149 lks. dist. mkd. $\frac{1}{4}$ S 34 B T.

No other trees within limits.

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

At 9h. 30m., a.m., 1.m.t., I set off $32^{\circ} 46'$ N. on the lat. arc; $22^{\circ} 33'$ S. on the decl. arc; and determine a meridian with the solar at the $\frac{1}{4}$ sec. cor. (Jan. 6, 1916.)

62.30

Wash, 40 lks. wide, 5 ft. deep, course, N. 50° E.

80.00

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

T 7 S R 1 E

S 28:S 27

S $33\frac{1}{4}$:S 34

1916

from which,

An iron wood, 8 ins. in diam., brs. N. 18° W.

135 lks. dist. mkd. T 7 S R 1 E S 28 B T.

No other trees within limits.

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.

Subdivision of T.7 S., R.1 E.

Chains

Land, gently rolling.
Soil, sandy gravelly, 2nd rate.
Timber, scattering palo verde and iron wood.
Undergrowth, greasewood brush, ocotillos and cacti.

40.00 East on a random line bet. secs. 27 and 34.
80.00 Set temp. $\frac{1}{4}$ sec. cor.
Intersect N. and S. line, 3 lks. S. of cor. of secs. 26,
27, 34 and 35.

Thence
S. $89^{\circ} 59'$ W. on a true line bet. secs. 27 and 34.
Over nearly level land, through scattering timber and
undergrowth.

3.80 Wash, 50 lks. wide, 4 ft. deep, course, N. 10° W.
6.70 Wash, 110 lks. wide, 4 ft. deep, course, N. 10° W.
19.00 Wash, 20 lks. wide, 3 ft. deep, course, N.
20.00 Enter gently rolling land.
25.80 Wash, 30 lks. wide, 5 ft. deep, course, NE.
32.80 Wash, 40 lks. wide, 5 ft. deep, course, N. 40° 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.

$S \frac{1}{4}$
 $S \frac{3}{4}$
1916

41.60 Build a mound of stone, 3 ft. base, 2 ft. high N. of cor.
Wash, 25 lks wide, 5 ft. deep, course, NE.
53.60 Wash, 25 lks. wide, 5 ft. deep, course, NE.
63.30 Wash, 60 lks. wide, 8 ft. deep, course, NE.
80.00 Cor. of secs. 27, 28, 33 and 34.

Land, level and rolling.
Soil, sandy loam and gravelly, 1st and 2nd rates.
Timber, scattering palo verde and iron wood.
Undergrowth, greasewood brush, ocotillos and cacti.

40.00 N. $0^{\circ} 2'$ W. bet. secs. 27 and 28.
Over nearly level land, through scattering scrub palo verde
and undergrowth.
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.

$S 28 \frac{1}{4} S 27$
1916

49.70 Dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 ft. dist.
58.20 and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high
80.00 W. of cor.

Wash, 30 lks. wide, 5 ft. deep, course, N. 15° E.
Wash, 25 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. 21, 22, 27 and 28, with
brass cap mkd.

T 7 S R 1 E
 $S 21 S 22$
 $S 28 S 27$
1916

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 c
cor.

Land, level.
Soil, sandy loam, with caliche subsoil, 2nd rate.
Timber, scattering palo verde and iron wood.
Undergrowth, greasewood brush, ocotillos and cacti.
At this cor. I set off $22^{\circ} 33'$ S. on the decl. arc; and
at apparent noon, observe the sun on the mer; The
resulting lat. is $32^{\circ} 48'$ N. (Jan. 6, 1916)

12.

Subdivision of T.7 S..R.1 E.

Chains

40.00	East on a random line bet. secs. 22 and 27. Set temp. $\frac{1}{4}$ sec. cor.
79.88	Intersect N. and S. line, 1 lk. S. of cor. of secs. 22, 23, 26, and 27, Thence West on a true line bet. secs. 22 and 27. Over level land, through greasewood brush.
5.90	Wash, 30 lks. wide, 3 ft. deep, course, NW.
30.20	Wash, 20 lks. wide, 4 ft. deep, course, N.
35.70	Wash, 60 lks. wide, 4 ft. deep, course, N.
39.94	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, $1\frac{1}{2}$ ft. high, for $\frac{1}{4}$ sec. cor. with brass cap mkd. S 22 $\frac{1}{4}$ S 27 1916
41.10	Build a mound of stone, 3 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
45.10	Wash, 120 lks. wide, 4 ft. deep, course, N.
61.90	Wash, 20 lks. wide, 3 ft. deep, course, N.
64.90	Wash, 20 lks. wide, 4 ft. deep, course, N.
79.88	Wash, 30 lks. wide, 4 ft. deep, course, N. 30° E. Cor. of secs. 21, 22, 27 and 28. Land, level. Soil, sandy loam, with gravel surface, 1st rate. Timber, scattering palo verde and iron wood, and mesquite. Undergrowth, greasewood brush, ocotillos and cacti.
23.00	N. 0° 2' W. bet. secs. 21 and 22. Over level land, through scattering timber and undergrowth.
40.00	Wash, 10 lks. wide, 1 ft. deep, course, NE. 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. S 21 $\frac{1}{4}$: S 22. 1916
80.00	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. 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 mkd. T 7 S R 1 E S 16: S 15 S 21: S 22 1916
40.00	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, level. Soil, sandy loam, 1st rate. Timber, scattering palo verde and iron wood. Undergrowth, greasewood brush.
40.00	East on a random line bet. secs. 15 and 22. Set temp. $\frac{1}{4}$ sec. cor.
79.92	Intersect N. and S. line, at cor. of secs. 14, 15, 22 and 23 Thence West on a true line bet. secs. 15 and 22. Over level land, through scattering undergrowth.
3.00	Wash, 20 lks. wide, 2 ft. deep, course, NW.
39.96	Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor. with brass cap mkd. S 15 $\frac{1}{4}$ S 22 1916

Subdivision of T.7 S., R.1 E.

Chains	
	<p>from which, A mesquite, 6 ins. in diam., brs. N. 15° W. 27 lks. dist. mkd. $\frac{1}{4}$ S 15 B T. A mesquite, 12 ins. in diam., brs. S. 78° E. 50 lks. dist, mkd. $\frac{1}{4}$ S 22 B T.</p>
42.40	Wash, 3 chs. wide, 4 ft. deep, course, N.
45.30	Wash, 60 lks. wide, 4 ft. deep, course, N.
59.50	Wash, 15 lks. wide, 1 ft. deep, course, N. 20° E.
79.92	Cor. of secs. 15, 16, 21 and 22. Land, level. Soil, sandy loam, 1st rate. Timber, scattering palo verde, iron wood and mesquite. Undergrowth, greasewood brush and desert willow.
<hr/>	
	N. 0° 2' W. bet. secs. 15 and 16.
40.00	Over level land, through scattering timber and undergrowth. 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. S 16 $\frac{1}{4}$:S 15 1916
	Dig pits 18 X 18 X 12 ins. N. and S. of cor. 3ft. 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. 9, 10, 15 and 16, with brass cap mkd. T 7 S R 1 E S 9 :S 10 S 16:S 15 1916
	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, level. Soil, sandy loam, gravelly surface, 1st rate. Timber, scattering palo verde, iron wood and mesquite. Undergrowth, greasewood brush.
<hr/>	
	East on a random line bet. secs. 10 and 15.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.97	Intersect N. and S. line, 2 lks. S. of cor. of secs. 10, 11, 14 and 15, Thence S. 89° 59' W. on a true line bet. secs. 10. and 15.
	Over level land, through scattering timber and undergrowth.
8.80	Wash, 30 lks. wide, 4 ft. deep, course, NW.
39.98 $\frac{1}{2}$	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. S 10 $\frac{1}{4}$ S 15 1916
	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.
50.00	Wash, 50 lks. wide, 3 ft. deep, course, N.
51.50	Wash, 120 lks. wide, 3 ft. deep, course, N.
68.70	Wash, 20 lks. wide, 2 ft. deep, course, N.
71.60	Wash, 40 lks. wide, 3 ft. deep, course, N.
79.97	Cor. of secs. 9, 10, 15 and 16. Land, level. Soil, sandy loam, 1st rate. Timber, scattering palo verde, iron wood and mesquite. Undergrowth, greasewood brush, ocotillos and cacti.

14. Subdivision of T.7 S., R.1 E.

Chains	N. 0° 2' W. bet. secs. 9 and 10. Over level land, through scattering timber and undergrowth, 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. S 9 $\frac{1}{2}$: S 10 1916
40.00	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.
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 mkd. T 7 S R 1 E S 4 : S 3 S 9 : S 10 1916
	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, level. Soil, sandy loam, 1st rate. Timber, scattering palo verde and iron wood. Undergrowth, greasewood brush.
40.00	East on a random line bet. secs. 3 and 10. Set temp. $\frac{1}{4}$ sec. cor.
79.94	Intersect N. and S. line, 2 lks. N. of cor. of secs. 2, 3, 10 and 11. Thence N. 89° 59' W. on a true line bet. secs. 3 and 10. Over level land, through scattering timber and undergrowth.
26.25	Wash, 30 lks. wide, 3 ft. deep, course, N.
31.64	Wash, 20 lks. wide, 3 ft. deep, course, N.
39.97	Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor. with brass cap mkd. S 3 S 10 1916
	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.
65.75	Wash, 80 lks. wide, 4 ft. deep, course, N.
79.94	Cor. of secs. 3, 4, 9 and 10. Land, level. Soil, sandy loam, and clay, 1st rate. Timber, scattering palo verde, iron wood and mesquite. Undergrowth, greasewood brush and desert willow.
40.00	North on a random line bet. secs. 3 and 4. Set temp. $\frac{1}{4}$ sec. cor.
80.03	Intersect N. bdy. of tp. 5 lks. E. of cor. of secs. 3, 4, 33 and 34, which is an iron post 3 ins. in diam., properly set, mkd. and witnessed as heretofore described. Thence S. 0° 2' E. on a true line bet. secs. 3 and 4. Over level land, through scattering timber and undergrowth.
40.03	Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor. with brass cap mkd. S 4 $\frac{1}{2}$: S 3 1916
	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.
80.03	The cor. of secs. 3, 4, 9 and 10. Land, level. -- Soil, Sandy loam, gravelly surface, 1st rate. Timber, scattering palo verde, ironwood and mesquite. Undergrowth, greasewood brush.

Subdivision of T.7 S., R.1 E.

15.

Chains	
	<p>Jan, 7, 1915, at 9h. 30m., a.m., l.m.t., I set off 32° 46' N. on the lat. arc; 22° 27' S. on the decl. arc; and determine a mer. with the solar, at the cor. of secs. 4, 5, 32 and 33, heretofore described.</p> <p>Thence N. 0° 2' W. bet. secs. 32 and 33. Over hilly land, through scattering timber and undergrowth.</p>
8.60	<p>Desc. NE. slope, 29 ft. to Wash, 30 lks. wide, 3 ft. deep, course, E. Asc. S. slope, 89 ft. to</p>
17.52	<p>Spur ridge slopes SE. Desc. NE. slope, 17 ft. to</p>
20.00	<p>Wash, 20 lks. wide, 3 ft. deep, course, E. Asc. S. slope, 85 ft. to</p>
26.70	<p>Ridge brw. E. and W. Desc. N. slope, 125 ft. to</p>
38.90	<p>Wash, 30 lks. wide, 5 ft. deep, course, N. 70° E. Asc. S. slope.</p>
40.00	<p>Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground, to solid rock, in a mound of stone, 3 ft. base, 2½ ft. high, for ¼ sec. cor. with brass cap mkd.</p> <p style="text-align: center;">S 32 ¼ : S 33 1916</p>
47.20	<p>Build a mound of stone, 3 ft. base, 2 ft. high W. of cor. Change to SE. slope.</p>
51.50	<p>Top of ascent, 239 ft. desc. NE. slope, 293 ft. to</p>
65.20	<p>Wash, 20 lks. wide, 2 ft. deep, course, S. 80° E. Asc. S. slope, 57 ft. to</p>
68.20	<p>Spur slopes E. desc. NE. slope, 74 ft. to</p>
80.00	<p>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.</p> <p style="text-align: center;">T 7 S R 1 E S 29 : S 28 S 32 : S 33 1916</p>
	<p>Build a mound of stone, 3 ft. base, 2 ft. high W. of cor. Land, hilly. Soil, stony, schist and quartz, 4th rate. Timber, scrub palo verde. Undergrowth, greasewood brush, ocotillos and cacti.</p>
40.00	<p>East on a random line bet. secs. 28 and 33. Set temp. ¼ sec. cor.</p>
79.98	<p>Intersect N. and S. line, 1 lk. N. of cor. of secs. 27, 28, 33 and 34. Thence West on a true line bet. secs. 28 and 33. Over rolling land, through scattering timber and undergrowth.</p>
11.10	<p>Wash, 30 lks. wide, 4 ft. deep, course, N. 10° E.</p>
23.90	<p>Wash, 40 lks. wide, 5 ft. deep, course, N. 20° E.</p>
39.99	<p>Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for ¼ sec. cor. with brass cap mkd.</p> <p style="text-align: center;">S 28 ¼ S 33 1916</p>
	<p>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.</p>
41.70	<p>Wash, 60 lks. wide, 6 ft. deep, course, N. 30° E.</p>
52.50	<p>Wash, 30 lks. wide, 5 ft. deep, course, N. 40° E. Asc. gradual NE. slope, 65 ft. to</p>
79.98	<p>Cor. of secs. 28, 29, 32 and 33. Land, level and rolling, Soil, sandy loam, and gravelly, 2nd and 3rd rates. Timber, scattering palo verde and iron wood. Undergrowth, greasewood brush, ocotillos and cacti.</p>

16. Subdivision of T.7 S., R.1 E.

chains

Jan. 7, 1916.

At this cor. at 12h. 36m., p.m., l.m.t., I observe Polaris at E.E. in accordance with instructions in the Manual of Surveying, and lay off the azimuth of Polaris, $1^{\circ} 21'$ to the W. From the mer. thus determined, the bearing of my line is East $2^{\circ} 21'$ as determined by solar observations, also.

N. $0^{\circ} 2'$ W. bet. secs. 28 and 29.

Over rolling land, through scattering timber and undergrowth.

Desc. NE. slope, 46 ft. to

18.20 Wash, 25 lks. wide, 4 ft. deep, course, E.

39.70 Wash, 20 lks. wide, 4 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.

S 29: S 28
1916

from which,

An iron wood, 10 ins. in diam., brs. S. $1^{\circ} 30'$ E.
59 lks. dist. mkd. $\frac{1}{4}$ S 28 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.

47.90 Wash, 30 lks. wide, 5 ft. deep, course, N. 40° E.

53.60 Wash, 80 lks. wide, 6 ft. deep, course, N. 40° 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 7 S R 1 E.
S 20: S 21
S 29: S 28
1916

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, sandy, gravelly, surface stony, 3rd rate.

Timber, scattering palo verde and iron wood.

Undergrowth, greasewood brush, ocotillos and cacti.

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

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

80.02 Intersect N. and S. line, at cor. of secs. 21, 22, 27 and 28.

Thence

West on a true line bet. secs. 21 and 28.

Over gently rolling land, through scattering timber and undergrowth.

4.10 Wash, 20 lks. wide, 2 ft. deep, course, N.

31.60 Wash, 50 lks. wide, 6 ft. deep, course, NE.

40.01 Set an iron post 3 ft. long, 1 in. in diam., 18 ins. in the ground to solid rock, in a mound of stone, 2 ft. base, 1 ft. high, for $\frac{1}{4}$ sec. cor. with brass cap mkd.

S 21
 $\frac{1}{4}$
S 28
1916

Dig pits 18 X 18 X 12 ins. in each sec. $5\frac{1}{2}$ ft. dist. and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

51.00 Wash, 50 lks. wide, 5 ft. deep, course, NE.

57.10 Wash, 25 lks. wide, 4 ft. deep, course, NE.

65.00 Wash, 60 lks. wide, 4 ft. deep, course, NE.

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

Land, gently rolling.

Soil, gravelly, 2nd and 3rd rates.

Timber, scattering palo verde and iron wood.

Undergrowth, greasewood brush, ocotillos and cacti.

Subdivision of T.7 S..R.1 E.

Chains
10.40
40.00
44.20
67.00
72.40
80.00
40.00
79.96
4.95
36.05
39.98
53.85
57.25
73.15
79.96

N. 0° 2' W. bet. secs. 20 and 21.
Over nearly level land, through scattering timber and undergrowth.

Wash, 60 lks. wide, 4 ft. deep, course, NE.
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.
S 20 $\frac{1}{4}$:S 21
1916

from which,
An iron wood, 6 ins. in diam., brs; N. 5 $\frac{3}{4}$ ° W. 68 lks. dist. mkd. $\frac{1}{4}$ S 20 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.

Wash, 50 lks. wide, 4 ft. deep, course, NE.
Wash, 25 lks. wide, 4 ft. deep, course, NE.
Wash, 45 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. 16, 17, 20 and 21, with brass cap mkd.
T 7 S R 1 E
S 17 | S 16
S 20 | S 21
1916.

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, level.
Soil, sandy and gravelly, 2nd rate.
Timber, scattering palo verde and iron wod.
Undergrowth, greasewood brush, ocotillos and cacti.

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

Wash, 20 lks. wide, 3 ft. deep, course, N.
Wash, 20 lks. wide, 2 ft. deep, course, N.
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.
S 16
 $\frac{1}{4}$
S 21
1916

from which,
An iron wood, 12 ins. in diam., brs. N. 76° E. 206 lks. dist. mkd. $\frac{1}{4}$ S 16 B T.
No other trees within limits.
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.

Wash, 40 lks. wide, 2 ft. deep, course, NE.
Wash, 15 lks. wide, 2 ft. deep, course, NE.
Wash, 30 lks. wide, 3 ft. deep, course, NE.
Cor. of secs. 16, 17, 20 and 21.
Land, level.
Soil, sandy loam, with gravelly surface, 1st rate.
Timber, scattering palo verde and iron wood.
Undergrowth, greasewood brush.

18.

Subdivision of T.7 S. R.1 E.

Chains

Jan. 8, 1916, at 10h. 30m., a.m., 1 m.t., I set off
 $32^{\circ} 49'$ N. on the lat. arc; $22^{\circ} 19'$ S. on the decl.
 arc; and determine a mer. with the solar, at the cor.
 of secs. 16, 17, 20 and 21.

Thence

N. $0^{\circ} 2'$ W. bet secs. 16 and 17.Over nearly level land, through scattering timber and
undergrowth.

22.50 Wash, 40 lks. wide, 5 ft. deep, course, NE.

25.20 Wash, 40 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.S $17\frac{1}{4}$:S 16

1916

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.

65.90 Wash, 30 lks. wide, 3 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. 8, 9, 16 and 17, with
brass cap mkd.

T 7 S R 1 E

S 8 :S 9

S 17:S 16

1916

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, nearly level.

Soil, sandy loam, gravelly surface, 1st rate.

Timber, palo verde and iron wood.

Undergrowth, greasewood brush.

Jan. 8, 1916, at this cor. I set off $22^{\circ} 19'$ S. on the
decl. arc; and at apparent noon, observe the sun on
the mer.; the resulting lat. is $32^{\circ} 50'$ N.

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

79.97 Set temp. $\frac{1}{4}$ sec. cor.Intersect N. and S. line 4 lks S. of cor. of secs. 9, 10,
15 and 16.

Thence level.

N. $89^{\circ} 58'$ W. on a true line bet. secs. 9 and 16.Over level land, through scattering timber and under-
growth.

12.90 Wash, 50 lks. wide, 3 ft. deep, course, N.

39.98 $\frac{1}{2}$ 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.S $9\frac{1}{2}$

S 16

1916

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.

68.50 Wash, 50 lks. wide, 5 ft. deep, course, NE.

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

Land, level.

Soil, sandy loam, 1st rate.

Timber, scattering palo verde and iron wood.

Undergrowth, greasewood brush.

N. $0^{\circ} 2'$ W. bet. secs. 8 and 9.

Over level land, through scattering timber and undergrowth.

2.10 Wash, 60 lks. wide, 4 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.S $8\frac{1}{4}$:S 9

1916

Dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 ft. dist.

Subdivision of T.7 S. R.1 E.

Chains

and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.

64.50 Wash, 50 lks. wide, 3 ft. deep, course, NE.
80.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ind. in the ground for cor. of secs. 4, 5, 8 and 9, with brasscap mkd.

T 7 S R 1 E
S 5 :S 4
S 8 :S 9
1916

from which,
An iron wood, 12 ins. in diam., hrs. N. 40° E.
69 lks. dist. mkd. T 7 S R 1 E S 4 B T.
No other trees within limits.
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, level.
Soil, sandy loam, with gravel, 1st rate.
Timber, scattering palo verde, iron wood and mesquite.
Undergrowth, greasewood brush.

40.00 East on a random line bet. secs. 4 and 9.
80.04 Set temp. $\frac{1}{4}$ sec. cor.
Intersect N. and S. line 4 lks. N. of cor. of secs. 3, 4, 9 and 10.
Thence
N. 89° 58' W. on a true line bet. secs. 4 and 9.
Over level land, through scattering timber and undergrowth.

15.45 Wash, 70 lks. wide, 3 ft. deep, course, N.
40.02 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.

S 4
S 9
1916

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.

75.35 Wash, 20 lks. wide, 2 ft. deep, course, NE.
80.04 Cor. of secs. 4, 5, 8 and 9.
Land, level.
Soil, sandy loam, 1st rate.
Timber, scattering palo verde and iron wood.
Undergrowth, greasewood brush.

40.00 North on a random line bet. secs. 4 and 5.
79.91 Set temp. $\frac{1}{4}$ sec. cor.
Intersect N. and S. line 4 lks. E. of cor. of secs. 4, 5, 32 and 33, heretofore described.
Thence
S. 0° 2' E. on a true line bet. secs. 4 and 5.
Over level land, through scattering timber and undergrowth.

8.60 Wash. 20 lks. wide, 2 ft. deep, course, NE.
39.91 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.

S 5 $\frac{1}{4}$:S 4
1916

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.

79.91 Cor. of secs. 4, 5, 8 and 9.
Land, level.
Soil, sandy loam, 1st rate.
Timber, scattering palo verde and iron wood.
Undergrowth, greasewood brush.

20.

Subdivision of T.7 S. R.1 E.

Chains

Jan. 10, 1916, at 10h., a.m., l.m.t., I set off 32° 46' N. on the lat. arc; 22° 2' S. on the decl. arc; and determine a mer. with the solar at the cor. of secs. 5, 6, 31 and 32, heretofore described.

Thence

N. 0° 3' W. bet. secs. 31 and 32.

Over mountainous land, through scattering timber and undergrowth.

Asc. S. slope, 216 ft. to

15.25 Top of spur slopes SW.

Change to SW slope.

30.30 Top of ridge, brs. NW. and SE. 426 ft. ascent.

Desc. N. and NE. slope, 193 ft. to

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for 1/4 sec. cor. with brass cap mkd.

S 31 1/4 : S 32

1916

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

42.20 Wash, 30 lks. wide, 5 ft. deep, course, NW.

Asc. S. slope, 100 ft. to

48.40 Spur slopes W.

Desc. N. slope, 194 ft. to

53.20 Ravine, 20 lks. wide, 8 ft. deep, course, NW.

Asc. SW. slope, 52 ft. to

63.38 Low ridge, brs. NW. and SE. Desc. N. slope, 50 ft. to

67.75 Wash, 50 lks. wide, 10 ft. deep, course, W.

Asc. S. slope, 45 ft. to

70.90 E. end of low hill brs. NW. and SE.

Desc. NE. slope, 50 ft. to

76.00 Ravine, 20 lks. wide, 6 ft. deep, course, NW.

Asc. SW. slope, 25 ft. to

80.00 Set an iron post 3 ft. long, 2 ins. in diam., on surface rock, in a mound of stone, 3 ft. base, 2 ft. high for cor. of secs. 29, 30, 31 and 32, with brass cap mkd.

T 7 S R 1 E

S 30 : S 29

S 31 : S 32

1916

Pits impracticable.

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

Soil, stony, 4th rate, schist and quartz formation.

Timber, scattering scrub palo verde.

Undergrowth, greasewood brush, ocotillos and cacti.

Survey commenced Jan. 11, 1916, and executed with a Young and Son's light mountain transit No. 8521, as described in book "A".

From recent and repeated field tests, I know the transit and solar attachment to be ins satisfactory adjustment.

Jan, 11, 1916, at 9h., a.m., l.m.t., I set off 32° 47' N. on the lat. arc; 21° 54' S. on the decl. arc; and determine a mer. with the solar, at the cor. of secs. 29, 30, 31 and 32.

Thence

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

40.00 Set temp. 1/4 sec. cor.

79.96 Intersect N. and S. line, 5 lks. S. of cor. of secs. 28, 29, 32 and 33.

Thence

N. 89° 58' W. on a true line bet. secs. 29 and 32.

Over mountainous land, through scattering timber and undergrowth.

Asc. NE. slope, 120 ft. to

6.76 Spur slopes N. desc. NW. slope, 103 ft. to

11.19 Wash, 20 lks. wide, 4 ft. deep, course, NW.

Asc. NE. slope, 45 ft. to

14.82 Spur slopes NW., desc. NW. slope, 90 ft.

22.84 Wash, 50 lks. wide, 12 ft. deep, course, N.

Subdivision of T.7 S., R.1 E.

Chains	
32.81 36.03 39.98	Asc. SW. slope, 220 ft. to Rocky spur slopes SE. desc. SW. slope, 62 ft. to Head of wash, course, SE. asc. SE. slope, 165 ft. to Set an iron post 3 ft. long, 1 in. in diam., on surface rock, in a mound of stone 3½ ft. base, 2½ ft. high for ¼ sec. cor. with brass cap mkd.
	S ₁ 29 5 32 1916
40.20	Pits impracticable. Build a mound of stone, 3 ft. base, 2 ft. high N. of cor. Top of spur slopes NE.
47.49 48.15 51.25 61.81 66.81 79.96	Desc. NW. slope, 109 ft. to Head of wash, course, N. asc. NE. slope, 59 ft. to Spur slopes N. desc. NW. slope, 28 ft. to Head of wash, course, N., asc. NE. slope, 309 ft. to Spur slopes N., change to NW. slope, asc. 17 ft. to Top of spur slopes NW., desc. SW. slope, 350 ft. to Cor. of secs. 29, 30, 31 and 32.
	Land, mountainous. Soil, stony, 4th rate, schist and quartz formation. Timber, scattering palo verde. Undergrowth, greasewood brush and cacti.
40.00 78.78	West on a random line bet. secs. 30 and 31. Set temp. ¼ sec. cor. Intersect W. bdy. of tp. 18 lks. N. of cor. of secs. 25, 30, 31 and 36, which is an iron post 3 ins. in diam., properly set, mkd. and witnessed as described by the Surveyor General.
	Thence N. 89° 52' E. on a true line bet. secs. 30 and 31. Over mountainous land, through scattering timber and undergrowth.
.28 3.13 14.68 24.48 38.38	Wash, 20 lks. wide, 6 ft. deep, course, N. Wash, 30 lks. wide, 8 ft. deep, course, N. 15° W. Wash, 40 lks. wide, 10 ft. deep, course, N. 30° E. Wash, 20 lks. wide, 4 ft. deep, course, N. 15° 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.
	S ₁ 30 5 31 1916
	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.
46.81 48.81 56.81 65.33 66.81 70.18 73.78 75.86 78.78	Wash, 40 lks. wide, 20 ft. deep, course, N. Wash, 20 lks. wide, 4 ft. deep, course, N. Asc. W. slope, 20 ft. to Top of low spur slopes, SW., desc. SE. slope, 20 ft. to Wash, 20 lks. wide, 15 ft. deep, course, NE. Asc. W. slope, 10 ft. to Top of spur slopes N., desc. E. slope, 29 ft. to Wash, 100 lks. wide, 20 ft. deep, course, NW. Asc. W. slope, 51 ft. to Top of spur slopes NW., Desc. E. slope, 7 ft. to Wash, 15 lks. wide, 4 ft. deep, course, NW. Asc. SW. slope, 45 ft. to Cor. of secs. 29, 30, 31 and 32.
	Land, rolling and mountainous. Soil, sandy and stony, 3rd rate. Timber, scattering palo verde and iron wood. Undergrowth, greasewood brush and cacti. At this cor. I set off 21° 54' S. on the decl. arc; and at apparent noon, observe the sun on the mer., the resulting lat. is 32° 47' N. Jan. 11, 1916.

Subdivision of T.7 S., R.1 E.

Chains	
	N. 0° 3' W. bet. secs. 29 and 30. Over hilly land, through scrub palo verde and undergrowth. Along W. slope of ridge. Asc. 10 ft. to
5.00	Desc. 50 ft. to
9.30	Asc. 47 ft. to
13.80	Desc. NW. slope, 92 ft. to
25.80	Wash, 80 lks. wide, 6 to 8 ft. deep, course, NE.
29.10	Wash, 40 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. S 30:4:S 29 1916
	Build a mound of stone, 3 ft. base, 2 ft. high W. of cor. Jan. 10, 1915, at this cor. I set off 22° 2' S. on the decl. arc; and at apparent noon observe the sun on the mer., the resulting lat. is 32° 47' N.
41.00	Wash, 30 lks. wide, 5 ft. deep, course, E. Asc. S. slope, 58 ft. to
48.24	Hill brs. E. and W., desc. N. slope, 93 ft. to
56.80	Wash, 20 lks. wide, 2 ft. deep, course, NE. Asc. gradual SE. slope, to
65.80	Wash, 20 lks. wide, 2 ft. deep, course, NE. Asc. SE. slope of hill, 34 ft. to
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 mkd. T 7 S R 1 E S 19:S 20 S 30:S 29 1916
	Build a mound of stone, 3 ft. base, 2 ft. high W. of cor. Land, hilly and rolling. Soil, gravelly and stony, 3rd rate. Timber, scattering palo verde and iron wood. Undergrowth, greasewood brush, ocotillos and cacti.
40.00	East on a random line bet. secs. 20 and 29. Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect N. and S. line at cor. of secs. 20, 21, 28 and 29. Thence West on a true line bet. secs. 20 and 29. Over rolling land, through scattering timber and under- growth.
4.30	Wash, 50 lks. wide, 4 ft. deep, course, NE.
17.70	Wash, 50 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. S 20 S 29 1916
	Dig pits 18 X 18 X 12 ins. E. and W. of cor. 3ft. dist. and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
52.30	Wash, 40 lks. wide, 6 ft. deep, course, NE.
80.00	Cor. of secs. 19, 20, 29 and 30. Land, rolling. Soil, gravelly and stony, 3rd rate. Timber, scattering palo verde and iron wood. Undergrowth, greasewood brush, ocotillos and cacti.

8079

Subdivision of T. 7 S., R. 1 E.

Chains	
40.00	West on a random line bet. secs. 19 and 30.
78.66	Set temp. $\frac{1}{4}$ sec. cor.
	Intersect G. & S.R.M. 16 lks. N. of cor. of secs. 19, 24, 25 and 30, which is an iron post 3 ins. in diam., properly set, mkd. and witnessed as described by the Surveyor General.
	Thence
	N. 89° 53' E. on a true line bet. secs. 19 and 30.
	Over level land, through scattering timber and undergrowth.
1.30	Wash, 25 lks. wide, 3 ft. deep, course, N.
10.20	Wash, 20 lks. wide, 4 ft. deep, course, NE.
14.40	Wash, 25 lks. wide, 3 ft. deep, course, NE.
17.00	Wash, 20 lks. wide, 2 ft. deep, course, N.
18.60	Wash, 40 lks. wide, 3 ft. deep, course, N. 15° E.
	Thence over gently rolling land.
38.66	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.
	$\begin{array}{r} S_{19} \\ \frac{1}{4} \\ \hline S_{30} \\ 1916 \end{array}$
	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.
40.80	Wash, 30 lks. wide, 6 ft. deep, course, N.
48.95	Wash, 15 lks. wide, 6 ft. deep, course, NE.
65.20	Wash, 40 lks. wide, 8 ft. deep, course, N. 30° W.
	Asc. S. slope, 57 ft. to
70.64	Top of spur slopes N., desc. NE. slope, 30 ft. to
74.32	Head of wash, course, N., asc. NW. slope, 18 ft.
78.66	Cor. of secs. 19, 20, 29 and 30.
	Land, level and rolling.
	Soil, sloose gravel and clay, 2nd rate.
	Timber, scattering palo verde, mesquite, cat claw and iron wood.
	Undergrowth, greasewood brush, and cacti.
<hr/>	
	N. 0° 3' W. bet. secs. 19 and 20.
	Over rolling land, through scattering timber and undergrowth.
5.00	Jan. 11, 1916, at this point at 12h. 11m., pm., 1 m.t., I observe Polaris at E.E. in accordance with instructions in the Manual of Surveying, and lay off the azimuth of Polaris, 1° 21', to the W. From the mer. thus determined, the bearing of my line is found to be N. 0° 3' W.
15.00	Desc. NW. slope, 23 ft. to
22.40	Wash, 30 lks. wide, 4 ft. deep, course, NE.
31.20	Wash, 35 lks. wide, 4 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.
	$\begin{array}{r} S_{19} \frac{1}{4} : S_{20} \\ 1916 \end{array}$
	Dig pits 18 X 18 X 12 ins. N. and S. of cor. 3ft. dist. and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
54.50	Wash, 20 lks. wide, 3 ft. deep, course, NE.
71.20	Wash, 60 lks. wide, 3 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. 17, 18, 19 and 20, with brass cap mkd.
	$\begin{array}{r} T 7 S R 1 E \\ \hline S 18 : S 17 \\ S 19 : S 20 \\ 1916 \end{array}$
	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.

24.

Subdivision of T.7 S., R.1 E.

Chains	Land, rolling and level. Soil, soil, stony and gravelly, 3rd and 2nd rates. Timber, scattering palo verde and iron wood. Undergrowth, greasewood brush, ocotillos and cacti.
40.00 80.03	East on a random line bet. secs. 17 and 20. Set temp. $\frac{1}{4}$ sec. cor. Intersect N. and S. line, at cor. of secs. 16, 17, 20 and 21.
24.20 38.40 40.01 $\frac{1}{2}$	Thence West on a true line bet. secs. 17 and 20. Over level land, through scattering timber and undergrowth. Wash, 40 lks. wide, 5 ft. deep, course, NE. Wash, 30 lks. wide, 4 ft. deep, course, NE. 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.
59.00 80.03	S 17 S 20 1916 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. Wash, 45 lks. wide, 4 ft. deep, course, NE. Cor. of secs. 17, 18, 19 and 20. Land, level. Soil, sandy loam, with gravel, 2nd rate. Timber, scattering palo verde and iron wood. Undergrowth, greasewood brush, ocotillos and cacti.
40.00 78.56	West on a random line bet. secs. 18 and 19. Set temp. $\frac{1}{4}$ sec. cor. Intersect G. & S.R.M. 18 lks. N. of cor. of secs. 13, 18, 19 and 24, which is an iron post 3 ins. in diam., properly set, mkd. and witnessed as described by the Surveyor General.
1.30 38.56	Thence N. 89° 52' E. on a true line bet. secs. 18 and 19. Over level land, through scattering timber and undergrowth. Wash, 15 lks. wide, 4 ft. deep, course, NE. 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.
46.40 67.56 78.56	S 18 S 19 1916 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. Wash, 25 lks. wide, 8 ft. deep, course, NE. Wash, 25 lks. wide, 4 ft. deep, course, NE. Cor. of secs. 17, 18, 19 and 20. Land, level. Soil, loose gravelly clay, 2nd rate. Timber, scattering palo verde, mesquite, iron wood and cat claw. Undergrowth, greasewood brush and cacti.
10.00 40.00	N. 0° 3' W. bet. secs. 17 and 18. Over level land, through scattering timber and undergrowth. Wash, 30 lks. wide, 4 ft. deep, course, NE. 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.

S 18 $\frac{1}{4}$: S 17

1916

Subdivision of T.7 S., R.1 E.

Chains

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

80.00 Wash, 50 lks. wide, 4 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. 7, 8, 17 and 18, with brass cap mkd.

T 7 S R 1 E
S 7 : S 8
S 18 : S 17
1916

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

Soil, gravel with caliche subsoil, 2nd rate.

Timber, scattering palo verde and iron wood.

Undergrowth, greasewood brush, ocotillos and cacti.

Jan. 11, 1916, At this cor. I set off 21° 54' S. on the decl. arc; and at apparent noon observe the sun on the mer., the resulting lat. is 32° 50' N.

40.00 East on a random line bet. secs. 8 and 17.

80.02 Set temp. ¼ sec. cor.

80.02 Intersect N. and S. line at cor. of secs. 8, 9, 16 and 17. Thence.

West on a true line bet. secs. 8 and 17.

Over gently rolling land, through scattering timber and undergrowth.

2.70 Wash, 60 lks. wide, 4 ft. deep, course, NE.

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.

S 17
1916

68.20 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.

71.30 Wash, 20 lks. wide, 3 ft. deep, course, N.

80.02 Wash, 60 lks. wide, 4 ft. deep, course, NE.

80.02 Cor. of secs. 7, 8, 17 and 18.

Land, gently rolling and level.

Soil, 40 chs, sandy loam, 1st rate, remainder gravelly, 3rd rate.

Timber, scattering palo verde and iron wood.

Undergrowth, greasewood brush, ocotillos and cacti.

40.00 West on a random line bet. secs. 7 and 18.

78.43 Set temp. ¼ sec. cor.

78.43 Intersect G. & S.R.M. 16 lks. N. of cor. of secs. 7, 12, 13 and 18, which is an iron post 3 ins. in diam., properly set, mkd. and witnessed as described by the Surveyor General.

Thence

N. 89° 53' E. on a true line bet. secs. 7 and 18.

Over level land, through scattering timber and undergrowth.

4.50 Wash, 60 lks. wide, 4 ft. deep, course, NE.

18.90 Wash, 18 lks. wide, 4 ft. deep, course, NE.

38.43 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for ¼ sec. cor. with brass cap mkd.

S 17
S 18
1916

49.75 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.

78.43 Wash, 15 lks. wide, 3 ft. deep, course, NE.

78.43 Cor. of secs. 7, 8, 17 and 18.

Chains

Land, level.
Soil, loose gravelly clay, 2nd rate.
Timber, palo verde, mesquite, iron wood and cat claw.
Undergrowth, greasewood brush and cacti.

Jan. 12, 1916, at 8h., a.m., l.m.t., I set off 32° 50' N. on the lat. arc; 21° 44' S. on the decl. arc; and determine a mer. with the solar at the cor. of secs. 7, 8, 17 and 18.

Thence
N. 0° 3' W. bet. secs. 7 and 8.

Over level land, through scattering timber and undergrowth.

18.10 Wash, 40 lks. wide, 4 ft. deep, course, NE.

24.00 Wash, 40 lks. wide, 4 ft. deep, course, NE.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for 1/4 sec. cor. with brass cap mkd.

S 7 1/4 : S 8

1916

Dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 ft. dist. and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high W. of cor.

55.00 Wash, 80 lks. wide, 8 ft. deep, course, NE.

62.80 Wash, 50 lks. wide, 6 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. 5, 6, 7 and 8, with brass cap mkd.

T 7 S R 1 E

S 6 : S 5

S 7 : S 8

1916

from which,

An iron wood, 12 ins. in diam., brs. N. 65 3/4° E. 174 lks. dist. mkd. T 7 S R 1 E S 5 B T.

A palo verde, 10 ins. in diam., brs. N. 86 1/2° W. 16 lks. dist. mkd. T 7 S R 1 E S 6 B T.

No other trees within limits.

Dig pits 18 X 18 X 12 ins. in each sec. 5 1/2 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.

Land, level.
Soil, gravelly, 2nd rate.
Timber, scattering palo verde and iron wood.
Undergrowth, greasewood brush, ocotillos and cacti.

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

40.00 Set temp. 1/4 sec. cor.

80.01 Intersect N. and S. line 2 lks. S. of cor. of secs. 4, 5, 8 and 9.

Thence

S. 89° 59' W. on a true line bet. secs. 5 and 8.

Over level land, through scattering timber and undergrowth.

40.00 1/2 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for 1/4 sec. cor. with brass cap mkd.

S 1/4 : S 5

S 4

S 8

1916

Dig pits 18 X 18 X 12 ins. E. and W. of cor. 3ft. dist. and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high N. of cor.

43.90 Wash, 40 lks. wide, 6 ft. deep, course, NE.

60.80 Wash, 80 lks. wide, 7 ft. deep, course, NE.

80.01 Cor. of secs. 5, 6, 7 and 8.

Land, level.
Soil, sandy loam, and gravel, 1st and 2nd rates.
Timber, palo verde and iron wood.
Undergrowth, greasewood brush, ocotillos and cacti.

Subdivision of T.7 S. R.1 E.

Chains
 40.00 West on a random line bet. secs. 6 and 7.
 78.43 Set temp. $\frac{1}{4}$ sec. cor.
 Intersect G.& S.R.M. 18 lks. N. of cor. of secs. 1, 6,
 7 and 12, which is an iron post 3 ins. in diam.,
 properly set, mkd. and witnessed as described by the
 Surveyor General.
 Thence
 N. 89° 52' E. on a true line bet. secs. 6 and 7.
 Over level land, through scattering timber and under-
 growth.
 13.90 Wash, 20 lks. wide, 3 ft. deep, course, NE.
 25.00 Wash, 10 lks. wide, 2 ft. deep, course, N.
 38.40 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.
 S 16
 S 7
 1916
 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.
 41.90 Wash, 85 lks. wide, 3 ft. deep, course, NE.
 47.80 Wash, 20 lks. wide, 2 ft. deep, course, NE.
 78.40 Cor. of secs. 5, 6, 7 and 8.
 Land, level.
 Soil, gravelly clay, 2nd rate.
 Timber, palo verde, mesquite, iron wood and cat claw.
 Undergrowth, greasewood brush and cacti.

40.00 N. 0° 3' W. on a random line bet. secs. 5 and 6.
 79.88 Set temp. $\frac{1}{4}$ sec. cor.
 Intersect N. bdy. of tp. 6 lks. W. of cor. of secs.
 5, 6, 31 and 32, heretofore described.
 Thence
 South on a true line bet. secs. 5 and 6.
 Over level land, through scattering timber and undergrowth.
 39.88 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.
 S 6 $\frac{1}{2}$:S 5
 1916
 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.
 43.58 Wash, 45 lks. wide, 3 ft. deep, course, N. 30° E.
 79.88 Cor. of secs. 5, 6, 7 and 8.
 Land, level.
 Soil, loose gravelly clay, 2nd rate.
 Timber, palo verde, iron wood, mesquite and cat claw.
 Undergrowth, greasewood brush, and cacti.

GENERAL DESCRIPTION

The south west part of this township is mountainous, the main ridges lying in sections 30, 31 and 32, where the formation is schist and quartz, 4th rate. The land along the east, and west and southern parts of the township is rolling between deep cut washes, with gravel formation and caliche subsoil, 2nd and 3rd rates. The remaining portion of the township is level with a loose sandy loam, 1st and 2nd rates. Land in the vicinity of the mountains is covered with malpais stone.
 The timber consists of palo verde, iron wood, mesquite and cat claw growing most plentifully along the washes.
 The undergrowth is greasewood brush, throughout the township, with cacti and ocotillos in the rolling and mountainous land.
 There is a fair growth of native grass on the level land.
 The drainage of the township is toward the north through the center of the township.

GENERAL DESCRIPTION (continued)

The township is unfit for agriculture, on account of the deep rolling washes and gravelly composition of the soil, except for small areas in the north central part. There are no settlers. No water has been developed within the township.

Subdivision of T.7 N., R.1 E.

DATE DIAGRAM

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

Lines dated in red were surveyed by W.H.Thorn, U.S.Surveyor.

Lines dated in green were surveyed by W.G.Shapcott, U.S.Surveyor.

CERTIFICATES OF UNITED STATES SURVEYORS.

We, W.H. Thorn and W.G. Shapcott, U.S. Surveyors, hereby certify on honor that, in pursuance of special instructions received from the U.S. Surveyor General for Arizona for Group No. 58, Arizona, bearing date of the 8th day of October, 1915, we have well, faithfully, and truly, in our own proper persons, 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 the Subdivision lines of

TOWNSHIP 7 SOUTH, RANGE 1 EAST,

of the Gila and Salt River Base and Meridian, in the State of Arizona, which are represented in the foregoing field notes, and by the diagram on the reverse hereof, as having been executed by us, and under our direction; and we do further certify on honor 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 Arizona for Group No. 58, and in the specific manner described in our respective field notes, and that the foregoing are the original field notes in such surveys.

W. H. Thorn
U. S. Surveyor.

W. G. Shapcott,
U. S. Surveyor.

by *W. H. Thorn*
U. S. Surveyor
Chief of Party.

A P P R O V A L .

Phoenix, Arizona, MAY 25 1918

The foregoing field notes of the survey of the Subdivision lines of

TOWNSHIP 7 SOUTH, RANGE 1 EAST,

of the Gila and Salt River Base and Meridian, in the State of Arizona, executed by W.H. Thorn and W.G. Shapcott, U.S. Surveyors, under special instructions dated October 8, 1915, for Group 58, 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 B. Frost
U.S. Surveyor General of Arizona.

I certify that the foregoing transcript of the field notes of the above-described surveys in Book "B" of Group 58, has been correctly copied from the original notes on file in this office.

U. S. Surveyor General of Arizona.