

Subdivisions

BOOK 2953

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION LINES OF

TOWNSHIP 16 NORTH, RANGE 20 WEST

2953

Of the Gila and Salt River Base and Meridian,

In the State of Arizona

EXECUTED BY

Albert Smith Jr., U.S. Surveyor

and

Ray D. Armstrong, U.S. Transitman

2953

~~In the capacity of U. S. Surveyor~~, under instructions dated December 28, 1914, issued by the United States Surveyor General to govern surveys included in Group No. 42, which were approved by the Commissioner of the General Land Office, January 22, 1915.

Survey commenced March 9, 1916

Survey completed March 22, 1916

Executed under assignment
Instructions dated Nov. 29, 1915 and Feb. 2, 1916.

1A

Book "U"

Group 42, Arizona

(Subdivisions)

BOOK 2953

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Township Exteriors. Notes in Book "A"
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Subdivision of T. 16 N., R. 20 W. 1B

chains.

Survey commenced Mar. 9, 1916, and executed jointly by Albert Smith, Jr., U. S. Surveyor, and Ray D. Armstrong, U. S. Transitman, with Young and Sons' light mountain transits Nos. 8583 and 8396, respectively, with Smith solar attachments. For description of instruments and certificate of approval, see subdivision of T. 13 N., R. 19 W., in Book "F". For tests of adjustment, see subdivision of T. 16 N., R. 19 W., in Book "S".

In the following field notes, the initials A. S. and R. D. A. refer to Albert Smith, Jr., U. S. Surveyor, and Ray D. Armstrong, U. S. Transitman, respectively.

A. S. and R. D. A.

A. S.
 At 8 hrs. 30 m., a.m., l.m.t., I set off 34° 41' N. on the lat. arc; 4° 24½' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 1, 2, 35 and 36, on the S. bdy. of the Tp., which is an iron post, established by John Gonin, U. S. Transitman, as described in Book "A".

Thence I run
 N.0° 1' W., bet. secs. 35 and 36.
 Over rolling land, through dense undergrowth.

16.00
40.00

Wash, 40 lks. wide, course NW.
 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap
 1916 on S. rim;
 ¼S35 in W. and
 S36 in E. half;
 dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.

80.00

Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground, to bed rock, 15 ins. in a mound of stone, for cor. of secs. 25, 26, 35 and 36, marked on brass cap
 1916 on S. rim;
 T16N R20W in N. half;
 S26 in NW.,
 S25 in NE.,
 S36 in SE. and
 S35 in SW. quadrant;
 and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

Land, rolling desert.
 Soil, gravel; 3rd rate.
 No timber.
 Undergrowth, greasewood, palo verde and sagebrush.

40.00
80.11

N.89° 54' E., on a random line, bet. secs. 25 and 36.
 Set temp. ¼ sec. cor.
 Intersect E. bdy. of the Tp., at the cor. of secs. 25, 30, 31 and 36, which is an iron post, established by me, as described in Book "A".

Thence I run
 S.89° 54' W., on a true line, bet. secs. 25 and 36.
 Over rolling land, through dense undergrowth.

29.70
39.30
40.05½

Wash, 15 lks. wide, course N.
 Wash, 20 lks. wide, course NW.
 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap
 1916 on S. rim;
 ¼S25 in N. and
 S36 in S. half;
 dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.

80.11

The cor. of secs. 25, 26, 35 and 36,
 Land, rolling desert.
 Soil, sand and gravel; 3rd rate.
 No timber.

2.

Subdivision of T. 16 N., R. 20 W.

Chains.

	Undergrowth, greasewood, palo verde and sagebrush.
	N.0° 1' W., bet. secs. 25 and 26. Over rolling land, through dense undergrowth. Road, brs. NE. and S.10° W.
6.10	
8.40	Center of wash, 80 lks. wide, course NE.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 22 ins. in the ground, on bed rock, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap 1916 on S. rim; $\frac{1}{4}$ S26 in W. and S25 in E. half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
44.40	Asc. 55 ft. to Desc. 110 ft. to
59.80	Thence over gently rolling land.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 23, 24, 25 and 26, marked on brass cap 1916 on S. rim; T16N R20W in N. half; S23 in NW., S24 in NE., S25 in SE. and S26 in SW. quadrant; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Land, rolling desert. Soil, gravel; 3rd rate. No timber. Undergrowth, greasewood, palo verde and sagebrush. Mar. 9, 1916: At this cor., I set off 4° 22 $\frac{1}{2}$ ' S. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 42 $\frac{1}{2}$ ' N.
	N.89° 54' E., on a random line, bet. secs. 24 and 25. Settemp. $\frac{1}{4}$ sec. cor.
40.00	
80.05	Intersect E. bdy. of Tp., 7 lks. N. of the cor. of secs. 19, 24, 25 and 30, which is an iron post, established by me, as described in Book "A". Thence I run S.89° 57' W., on a true line, bet. secs. 24 and 25. Over rolling land, through dense undergrowth.
1.75	Wash, 30 lks. wide, course NW.
40.02 $\frac{1}{2}$	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap 1916 on S. rim; $\frac{1}{4}$ S24 in N. and S25 in S. half; dig pits, 18 X18 X 12 ins. E. and W. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
42.75	Wash, 25 lks. wide, course N.
65.75	Center of wash, 70 lks. wide, course NE.
66.35	Road, brs. NE. and SW.
80.05	The cor. of secs. 23, 24, 25 and 26. Land, rolling desert. Soil, gravel; 3rd rate. No timber. Undergrowth, greasewood, palo verde and ocotillo.

Subdivision of T. 16 N., R. 20 W.

3.

Chains. N.0° 1' W., bet. secs. 23 and 24.
 Over rolling land, through dense undergrowth.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
 1916 on S. rim;
 $\frac{1}{4}$ S23 in W. and
 S24 in E. half;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 80.00 Point for cor. of secs. 13, 14, 23 and 24 falls in road, brs NW. and SE. I return to
 79.90 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for witness cor. to cor. of secs. 13, 14, 23 and 24, marked on brass cap
 1916 on S. rim;
 T16N R20W in N. and
 W0 in S. half;
 S14 in NW.,
 S13 in NE.,
 S24 in SE. and
 S23 in SW. quadrant;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 Land, rolling desert.
 Soil, gravel; 4th rate.
 No timber.
 Undergrowth, greasewood, palo verde, ocotillo and sagebrush.

From the true point for cor. of secs. 13, 14, 23 and 24, I run
 N.89° 57' E., on a random line, bet. secs. 13 and 24.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.12 Intersect E. bdy. of Tp., 7 lks. N. of the cor. of secs. 13, 18, 19 and 24, which is an iron post, established by me, as described in Book "A".
 Thence I run
 West on a true line, bet. secs. 13 and 24.
 Over rolling land, through dense undergrowth.
 3.60 Wash, 30 lks. wide, course NW.
 40.06 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
 1916 on S. rim;
 $\frac{1}{4}$ S13 in N. and
 S24 in S. half;
 dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
 70.10 Wash, 40 lks. wide, course NW.
 77.10 Wash, 40 lks. wide, course N.20° W.
 79.80 Wash, 25 lks. wide, course N.
 80.12 The true point for cor. of secs. 13, 14, 23 and 24.
 Land, rolling desert.
 Soil, gravel; 3rd rate.
 No timber.
 Undergrowth, greasewood and sagebrush.

Mar. 9, 1916.

Mar. 10, 1916: At 8 hrs. 5 m., a.m., l.m.t., I set off
 34° 43 $\frac{1}{2}$ ' N. on the lat. arc; 4° 2' S. on the decl. arc
 and determine a meridian with the solar at the true point for cor. of secs. 13, 14, 23 and 24.
 Thence I run
 N.0° 1' W., bet. secs. 13 and 14.
 Over rolling land, through dense undergrowth.
 .50 Wash, 25 lks. wide, course NW.

4.

Subdivision of T. 16 N., R. 20 W.

Chains.	
10.00	Center of forks of washes, 2 chs. wide, from the SE.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap 1916 on S. rim; $\frac{1}{4}$ S14 in W. and S13 in E. half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
58.00	Center of wash, 2 chs. wide, course W.
58.90	National "Old Trails" Highway, brs. E. and W.
64.00	Center of wash, 60 lks. wide, course W.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 26 ins. in the ground, for cor. of secs. 11, 12, 13 and 14, marked on brass cap. 1916 on S. rim; T16N R20W in N. half; S11 in NW, S12 in NE., S13 in SE. and S14 in SW. quadrant; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Land, rolling desert. Soil, sand and gravel; 3rd rate. No timber. Undergrowth, greasewood, palo verde and sagebrush.
40.00	East on a random line, bet. secs. 12 and 13. Set temp. $\frac{1}{4}$ sec. cor.
80.10	Intersect E. bdy. of Tp., 9 lks. S. of the cor. of secs. 7, 12, 13 and 18, which is an iron post, established by me, as described in Book "A". Thence I run S.89° 56' W., on a true line, bet. secs. 12 and 13. Over level land, through dense undergrowth.
37.40	Wash, 30 lks. wide, course S.80° W.
40.05	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap 1916 on S. rim; $\frac{1}{4}$ S12 in N. and S13 in S. half; dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
57.10	Wash, 30 lks. wide, course NW.
80.10	The cor. of secs. 11, 12, 13 and 14. Land, level. Soil, sandy; 3rd rate. No timber. Undergrowth, greasewood, palo verde and sagebrush.
5.50	N.0° 1' W., bet. secs. 11 and 12. Over rolling land, through scattering undergrowth.
9.95	Center of wash, 1 ch. wide, course W.
10.83	Main line A. T. and S. F. R. R. brs. E. and W.
11.91	Telegraph line, brs. E. and W.
15.30	Center of wash, 70 lks. wide, course W.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap 1916 on S. rim; $\frac{1}{4}$ S11 in W. and S12 in E. half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the

Subdivision of T. 16 N., R. 20 W.

5.

Chains.

ground, for cor. of secs. 1, 2, 11 and 12, marked on brass cap

- 1916 on S. rim;
- T16N R20W in N. half;
- S2 in NW.,
- S1 in NE.,
- S12 in SE. and
- S11 in SW. quadrant;

and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

Land, rolling desert.
 Soil, sand and gravel; 3rd rate.
 No timber.
 Undergrowth, greasewood, palo verde and ocotillo.

40.00
80.16

N.89° 56' E., on a random line, bet. secs. 1 and 12.
 Set temp. ¼ sec. cor.
 Intersect E. bdy. of Tp., at the cor. of secs. 1, 6, 7 and 12, which is an iron post, established by me, as described in Book "A".

Thence I run
 S.89° 56' W., on a true line, bet. secs. 1 and 12.
 Over rolling land, through dense undergrowth.

40.08

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

- 1916 on S. rim;
- ¼S1 in N. and
- S12 in S. half;

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

80.16

The cor. of secs. 1, 2, 11 and 12.

Land, rolling desert.
 Soil, 3rd rate; sandy.
 No timber.
 Undergrowth, greasewood and sagebrush.

Mar. 10, 1916: At this cor., I set off 3° 59' S. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 45½' N.

40.00
79.99

N.0° 1' W., on a random line, bet. secs. 1 and 2.
 Set temp. ¼ sec. cor.
 Intersect N. bdy. of Tp., 5 lks. E. of the cor. of secs. 1, 2, 35 and 36, which is an iron post, established by me, as described in Book "A".

Thence I run
 S.0° 3' E., on a true line, bet. secs. 1 and 2.
 Over gently rolling land, through dense undergrowth.

37.00
39.99

Wash, 40 lks. wide, course SW.
Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap

- 1916 on S. rim;
- ¼S2 in W. and
- S1 in E. half;

and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

45.00
79.99

Center of wash, 1 ch. wide, course SW.
The cor. of secs. 1, 2, 11 and 12.

Land, gently rolling.
 Soil, sandy; 3rd rate.
 No timber.
 Undergrowth, greasewood and sagebrush.

Mar. 10, 1916.
A. S.

6. Subdivision of T. 16 N., R. 20 W.

Chains.

	<p>Mar. 10, 1916: R. D. A. At 8 hrs. 0 m., a.m., l.m.t., I set off $34^{\circ} 41'$ N. on the lat. arc; $4^{\circ} 2'$ S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 2, 3, 34 and 35, on the S. bdy. of the Tp., which is an iron post, established by John Gonin, as described in Book "A".</p> <p>Thence I run N. $0^{\circ} 1'$ W., bet. secs. 34 and 35. Descend in draw, and, through dense undergrowth.</p> <p>40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap 1916 on S. rim; $\frac{1}{4}$S34 in W. and S35 in E. half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.</p> <p>80.00 Set an iron post, 3 ft. long, 2 ins. diam., on bed rock, 26 ins. in a mound of stone, for cor. of secs. 26, 27, 34 and 35, marked on brass cap 1916 on S. rim; T16N R20W in N. half; S27 in NW., S26 in NE., S35 in SE. and S34 in SW. quadrant; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.</p> <p>Land, rolling. Soil, rocky; 4th rate. No timber. Undergrowth, greasewood, palo verde and ocotillo.</p>
40.00	N. $89^{\circ} 54'$ E., on a random line, bet. secs. 26 and 35.
79.90	Set temp. $\frac{1}{4}$ sec. cor. Intersect N. and S. line, 14 lks. N. of the cor. of secs. 25, 26, 35 and 36.
	Thence I run West on a true line, bet. secs. 26 and 35. Over rolling and broken land, through dense undergrowth.
1.80	Road, brs. N. and S.
3.80	Center of wash, 1 ch. wide, course N. 20° E. Asc. 110 ft. to
11.70	Desc. 65 ft. to
18.70	Asc. 60 ft. to
29.00	Desc. 25 ft. to
30.00	Thence over gently rolling land.
39.95	Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground, on bed rock, 8 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap 1916 on S. rim; $\frac{1}{4}$ S26 in N. and S35 in S. half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
50.00	Wash, 50 lks. wide, course NW.
53.90	Wash, 40 lks. wide, course N.
79.90	The cor. of secs. 26, 27, 34 and 35. Land, rolling and broken. Soil, rocky; 4th rate. No timber. Undergrowth, greasewood, palo verde and ocotillo.
	Mar. 10, 1916: At this cor., I set off $3^{\circ} 59'$ S. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is $34^{\circ} 42'$ N. R. D. A. Mar. 10, 1916.

Subdivision of T. 16 N., R. 20 W.

7.

Chains.

Mar. 11, 1916: A. S.
 At 8 hrs. 0 m., a.m., l.m.t., I set off 34° 42' N. on the lat. arc; 3° 38½' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 26, 27, 34 and 35.
 Thence I run
 N.0° 1' W., bet. secs. 26 and 27.
 Over rolling and hilly land, through dense undergrowth.
 Desc. slightly to
 15.30 Asc. 55 ft. to
 21.20 Top of low Butte. Desc. N. slope, 70 ft. to
 25.00 Thence over gently rolling land.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground, on bed rock, 15 ins. in a mound of stone, for ¼ sec. cor., marked on brass cap
 1916 on S. rim;
 ¼S27 in W. and
 S26 in E. half;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor.
 42.40 Desc. 55 ft. to
 55.00 Asc. 20 ft. to
 56.50 Desc. 65 ft. to
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 26 ins. in the ground, for cor. of secs. 22, 23, 26 and 27, marked on brass cap
 1916 on S. rim;
 T16N R20W in N. half;
 S22 in NW.,
 S23 in NE.,
 S26 in SE. and
 S27 in SW. quadrant;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor.
 Land, rolling and hilly;
 Soil, gravel and rock; 4th rate.
 No timber.
 Undergrowth, greasewood, palo verde, ocotillo and sagebrush.

40.00 East on a random line, bet. secs. 23 and 26.
 Set temp. ¼ sec. cor.
 80.05 Intersect N. and S. line, 21 lks. N. of the cor. of secs. 23, 24, 25 and 26.
 Thence I run
 N.89° 51' W., on a true line, bet. secs. 23 and 26.
 Over rolling and hilly land, through dense undergrowth.
 15.00 Asc. 290 ft. to
 36.00 Hill, brs. N. and S. Desc. 220 ft.
 40.02½ Set an iron post, 3 ft. long, 1 in. diam., on bed rock, 28 ins. in a mound of stone, for ¼ sec. cor., marked on brass cap
 1916 on S. rim;
 ¼S23 in N. and
 S26 in S. half;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 N. of cor.
 79.60 Continue desc. to
 80.05 Center of wash, 60 lks. wide, course NW. Asc. to
 The cor. of secs. 22, 23, 26 and 27.
 Land, rolling and hilly.
 Soil, gravel, stone and sand; 3rd rate.
 No timber.
 Undergrowth, greasewood, palo verde, ocotillo and sagebrush.
 Mar. 11, 1916: At this cor., I set off 3° 35½' S, on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 42½' N.

8.

Subdivision of T. 16 N., R. 20 W.

Chains.

	N.0° 1' W., bet. secs. 22 and 23. Over rolling and broken land, through dense undergrowth. Desc. to
.60	Center of wash, 60 lks. wide, course NW.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground, on bed rock, 17 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap 1916 on S. rim; $\frac{1}{4}$ S22 in W. and S23 in E. half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
71.50	Wash, 50 lks. wide, course NW.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 14, 15, 22 and 23, marked on brass cap 1916 on S. rim; T16N R20W in N. half; S15 in NW., S14 in NE., S23 in SE. and S22 in SW. quadrant ; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Land, rolling and broken. Soil, sand, gravel and rock; 4th rate. No timber. Undergrowth, greasewood and palo verde.
40.00	S.89° 51' E., on a random line, bet. secs. 14 and 23. Set temp. $\frac{1}{4}$ sec. cor.
79.81	Intersect N. and S. line, 9 lks. S. of the true point for cor. of secs. 13, 14, 23 and 24. Thence I run, from the true point for cor. of secs. 13, 14, 23 and 24.
	N.89° 55' W., on a true line, bet. secs. 14 and 23. Over rolling land, through dense undergrowth.
11.50	Wash, 40 lks. wide, course NW.
39.90 $\frac{1}{2}$	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap 1916 on S. rim; $\frac{1}{4}$ S14 in N. and S23 in S. half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
54.80	Wash, 50 lks. wide, course NW.
79.81	The cor. of secs. 14, 15, 22 and 23. Land, rolling. Soil, sand and gravel; 3rd rate. No timber. Undergrowth, greasewood and palo verde.
40.00	N.0° 1' W., bet. secs. 14 and 15. Over rolling land, through dense undergrowth. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap 1916 on S. rim; $\frac{1}{4}$ S15 in W. and S14 in E. half; dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
44.10	"Old Trails" Highway, brs. E. and W.
66.50	Center of wash, 60 lks. wide, course NW.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, for cor. of secs. 10, 11, 14 and 15, marked on

Chains.

brass cap
 1916 on S. rim;
 T16N R20W in N. half;
 S10 in NW.,
 S11 in NE.,
 S14 in SE. and
 S15 in SW. quadrant;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor.
 Land, rolling desert.
 Soil, sand; 3rd rate.
 No timber.
 Undergrowth, greasewood and palo verde.
 Mar. 11, 1916.

Mar. 13, 1916: At 7 hrs. 30 m., a.m., l.m.t., I set off
 34° 44½' N. on the lat. arc; 2° 51½' S. on the decl.
 arc; and determine a meridian with the solar at the
 cor. of secs. 10, 11, 14 and 15.

Thence I run
 S.89° 55' E., on a random line, bet. secs. 11 and 14.
 40.00 Set temp. ¼ sec. cor.
 79.95 Intersect N. and S. line, 5 lks. N. of the cor; of secs.
 11, 12, 13 and 14.

Thence I run
 N.89° 53' W., on a true line, bet. secs. 11 and 14.
 Over level land, through dense undergrowth.
 25.95 Center of wash, 2 chs. wide, course S.80° W.
 39.97½ Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the
 ground, for ¼ sec. cor., marked on brass cap
 1916 on S. rim;
 ¼S11 in N. and
 S14 in S. half;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 N. of cor.

61.95 Center of wash, 1.50 chs. wide, course NW.
 79.95 The cor. of secs. 10, 11, 14 and 15.
 Land, level desert.
 Soil, sandy; 2nd rate.
 No timber.
 Undergrowth, greasewood and palo verde.

N.0° 1' W., bet. ¼ secs. 10 and 11.
 Over rolling land, through dense undergrowth.
 1.50 Center of wash, 1.50 chs. wide, course W.
 10.58 Main line A. T. and S. F. R. R. brs. N.89° 32' W. and
 S.89° 32' E.
 11.47 Telegraph line, brs. N.89° 32' W. and S.89° 32' E.
 12.50 Telegraph line, brs. N.89° 32' W. and S.89° 32' E.
 34.80 Center of wash, 1 ch. wide, course SW.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the
 ground, for ¼ sec. cor., marked on brass cap

1916 on S. rim;
 ¼S10 in W. and
 S11 in E. half;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor.
 68.30 Wash, 30 lks. wide, 30 ft. deep, course SW.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 26 ins. in the
 ground, for cor. of secs. 2, 3, 10 and 11, marked on
 brass cap
 1916 on S. rim;
 T16N R20W in N. half;
 S3 in NW.,
 S2 in NE.,

10. Subdivision of T. 16 N., R. 20 W.

Chains.

S11 in SE. and
 S10 in SW. quadrant;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor.
 Land, rolling desert.
 Soil, sandy and gravelly; 3rd rate.
 No timber.
 Undergrowth, greasewood, palo verde and sagebrush.

40.00 S.89° 53' E., on a random line, bet. secs. 2 and 11.
 79.93 Set temp. ¼ sec. cor.
 Intersect N. and S. line, 5 lks. S. of the cor. of secs.
 1, 2, 11 and 12.
 Thence I run
 N.89° 55' W., on a true line, bet. secs. 2 and 11.
 19.95 Over rolling land, through scattering undergrowth.
 39.96½ Center of wash, 1 ch. wide, course SW.
 Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the
 ground, for ¼ sec. cor., marked on brass cap
 1916 on S. rim;
 ¼S2 in N. and
 S11 in S. half;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 N. of cor.
 56.95 Wash, 20 lks. wide, course S. Comes from NE.
 75.65 Wash, 30 lks. wide, 10 ft. deep, course SW.
 79.93 The cor. of secs. 2, 3, 10 and 11.
 Land, rolling desert.
 Soil, sand and gravel; 4th rate.
 No timber.
 Undergrowth, greasewood.

40.00 N.0° 1' W., on a random line, bet. secs. 2 and 3.
 79.64 Set temp. ¼ sec. cor.
 Intersect N. and S. line, 8 lks. E. of the cor. of secs.
 2, 3, 34 and 35, which is an iron post, established by
 me, as described in Book "A".
 Thence I run
 S.0° 5' E., on a true line, bet. secs. 2 and 3.
 1.85 Over level land, through dense undergrowth.
 22.15 Wash, 25 lks. wide, 10 ft. deep, course SW.
 26.15 Wash, 30 lks. wide, course SW.
 39.64 Old road, brs. NE. and SW.
 Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the
 ground, for ¼ sec. cor., marked on brass cap
 1916 on S. rim;
 ¼S3 in W. and
 S2 in E. half;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor.
 61.85 Wash, 20 lks. wide, course SW.
 79.64 The cor. of secs. 2, 3, 10 and 11.
 Land, level.
 Soil, sand and gravel; 3rd rate.
 No timber.
 Undergrowth, greasewood.
 Mar. 13, 1916: At this cor., I set off 2° 48' S. on the
 decl. arc; and at apparent noon, I observe the sun on
 the meridian; the resulting lat. is 34° 45½' N.
 A. S.
 Mar. 13, 1916.

Chains. Mar. 11, 1916: R. D. A.
 At 8 hrs. 0 m., a.m., l.m.t., I set off 34° 41' N. on the lat. arc; 3° 38½' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 3, 4, 33 and 34, on the S. bdy. of the Tp., which is an iron post, established by John Gonin, U. S. Transitman, as described in Book "A".

Thence I run
 N.0° 2' W., bet. secs. 33 and 34.
 Over hilly and broken land, through scattering undergrowth.
 Asc. 20 ft. to
 1.20 Desc. 65 ft. to
 6.15 Asc. 25 ft. to
 12.70 Desc. 70 ft. to
 15.90 Gulch, 50 lks. wide, course NW. Asc. 60 ft. to
 19.30 Desc. 80 ft. to
 25.70 Asc. 45 ft. to
 28.30 Desc. 65 ft. to
 31.00 Gulch, 10 lks. wide, course W. Asc. S. slope, 200 ft. to
 39.35 Hill, brs. E. and W. Desc. N. slope, 265 ft.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground, on bed rock, 10 ins. in a mound of stone, for ¼ sec. cor., marked on brass cap
 1916 on S. rim;
 ¼S33 in W. and
 S34 in E. half;
 and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
 55.20 Foot of desc.; asc. 35 ft. to
 68.10 Desc. 55 ft. to
 75.00 Asc. 20 ft. to
 78.50 Desc. 20 ft. to
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground, on bed rock, 18 ins. in a mound of stone, for cor. of secs. 27, 28, 33 and 34, marked on brass cap
 1916 on S. rim;
 T16N R20W in N half;
 S28 in NW.,
 S27 in NE.,
 S34 in SE. and
 S33 in SW. quadrant;
 and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
 Land, hilly and broken.
 Soil, rocky; 4th rate.
 No timber.
 Undergrowth, greasewood, palo verde and cacti.
 Mar. 11, 1916.

Mar. 10, 1916.
 N.89° 54' E., on a random line, bet. secs. 27 and 34.
 40.00 Set temp. ¼ sec. cor.
 80.00 Intersect N. and S. line, 5 lks. S. of the cor. of secs. 26, 27, 34 and 35.
 Thence I run
 S.89° 52' W., on a true line, bet. secs. 27 and 34.
 Over rolling land, through dense undergrowth.
 5.80 Wash, 50 lks. wide, course NW.
 11.70 Wash, 50 lks. wide, course N.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground, on bed rock, 17 ins. in a mound of stone, for ¼ sec. cor., marked on brass cap
 1916 on S. rim;
 ¼S27 in N. and
 S34 in S. half;
 and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
 80.00 The cor. of secs. 27, 28, 33 and 34.
 Land, rolling desert.

12.

Subdivision of T. 16 N., R. 20 W.

Chains.

Soil, rocky; 4th rate.

No timber.

Undergrowth, greasewood, paloverde and ocotillo.

R. D. A.

Mar. 10 and 11, 1916.

Mar. 14, 1916: A. S.

At 7 hrs. 56 m., a.m., l.m.t., I set off $34^{\circ} 42'$ N. on the lat. arc; $2^{\circ} 28'$ S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 27, 28, 33 and 34.

Thence I run

N. $0^{\circ} 2'$ W., bet. secs. 27 and 28.

Over rolling and broken land, through dense undergrowth.

7:40 Wash, 50 lks. wide, course NW.

19.10 Same wash, 50 lks. wide, course NE.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 14 ins. in the ground, on bed rock, 12 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap

1916 on S. rim;

 $\frac{1}{4}$ S28 in W. and

S27 in E. half;

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

52.70 Same wash, 70 lks. wide, course NW.

71.00 Same wash, 70 lks. wide, course NE.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 14 ins. in the ground, on bed rock, 20 ins. in a mound of stone, for cor. of secs. 21, 22, 27 and 28, marked on brass cap

1916 on S. rim;

T16N R20W in N. half;

S21 in NW..

S22 in NE..

S27 in SE. and

S28 in SW. quadrant;

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

Land, rolling and broken.

Soil, rocky; 4th rate.

No timber.

Undergrowth, greasewood.

40.00 N. $89^{\circ} 52'$ E., on a random line, bet. secs. 22 and 27.Set temp. $\frac{1}{4}$ sec. cor.

80.07 Intersect N. and S. line, 2 lks. N. of the cor. of secs. 22, 23, 26 and 27.

Thence I run

S. $89^{\circ} 53'$ W., on a true line, bet. secs. 22 and 27.

Over rolling land, through dense undergrowth.

13.55 Wash, 50 lks. wide, 30 ft. deep, course N.

40.03 $\frac{1}{2}$ Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap

1916 on S. rim;

 $\frac{1}{4}$ S22 in N. and

S27 in S. half;

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

76.05 Center of wash, 75 lks. wide, 50 ft. deep, course NE.

80.07 The cor. of secs. 21, 22, 27 and 28.

Land, rolling.

Soil, gravelly; 3rd rate.

No timber.

Undergrowth, greasewood and palo verde.

Subdivision of T. 16 N., R. 20 W.

13.

Chains.

40.00 N.0° 2' W., bet. secs. 21 and 22.
Over rolling land, through dense undergrowth.
Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
1916 on S. rim;
 $\frac{1}{4}$ S21 in W. and
S22 in E. half;
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

60.00 Center of wash, 2 chs. wide, course NW.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 15, 16, 21 and 22, marked on brass cap
1916 on S. rim;
T16N R20W in N. half;
S16 in NW.,
S15 in NE.,
S22 in SE. and
S21 in SW. quadrant;
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Land, rolling.
Soil, gravelly; 3rd rate.
No timber.
Undergrowth, greasewood.
Mar. 14, 1916: At this cor., I set off 2° 24 $\frac{1}{2}$ ' S. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 43 $\frac{1}{2}$ ' N.

40.00 N.89° 53' E., on a random line, bet. secs. 15 and 22.
Set temp. $\frac{1}{4}$ sec. cor.

80.06 Intersect N. and S. line, 7 lks. S. of the cor. of secs. 14, 15, 22 and 23.
Thence I run
S.89° 50' W., on a true line, bet. secs. 15 and 22.
Over rolling land, through dense undergrowth.

3.75 Wash 50 lks. wide, course NW.

20.05 Center of wash, 1 ch. wide, course N.

40.03 Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
1916 on S rim;
 $\frac{1}{4}$ S15 in N. and
S22 in S. half;
dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

80.06 The cor. of secs. 15, 16, 21 and 22.
Land, rolling desert.
Soil, gravel; 3rd rate.
No timber.
Undergrowth, greasewood.

40.00 N.0° 2' W., bet. secs. 15 and 16.
Over rolling land, through dense undergrowth.
Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
1916 on S. rim;
 $\frac{1}{4}$ S16 in W. and
S15 in E. half;
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

48.20 "Old Trails" Highway, brs. E. and W.

72.20 Center of wash, 1.50 chs. wide, course W.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 9, 10, 15 and 16, marked on brass cap

14. Subdivision of T. 16 N., R. 20 W.

Chains.

	<p>1916 on S. rim; T16N R20W in N. half; S9 in NW., S10 in NE., S15 in SE. and S16 in SW. quadrant; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Land, rolling. Soil, gravel; 3rd rate. No timber. Undergrowth, greasewood.</p>
40.00	N.89° 50' E., on a random line, bet. secs. 10 and 15.
80.04	Set temp. ¼ sec. cor. Intersect N. and S. line, 11 lks. S. of the cor. of secs. 10, 11, 14 and 15. Thence I run S.89° 45' W., on a true line, bet. secs. 10 and 15. Over rolling land, through dense undergrowth.
40.02	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap 1916 on S. rim; ¼S10 in N. and S15 in S. half; dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, ¾ ft. base, 1½ ft. high, N. of cor.
65.15	Center of wash, 2 chs. wide, course S.50° W.
80.04	The cor. of secs. 9, 10, 15 and 16. Land, rolling. Soil, gravel; 3rd rate. No timber. Undergrowth, greasewood.
	Mar. 14, 1916.
	Mar. 16, 1916.
	N.0° 2' W., bet. secs. 9 and 10. Over rolling land, through dense undergrowth.
9.00	Center of wash, 60 lks. wide, course W.
11.60	Main line A. T. and S. F. R. R. brs. N.89½° W. and S.89½° E.
12.48	Telegraph line, brs. N.89½° W. and S.89½° E.
13.55	Telegraph line, brs. N.89½° W. and S.89½° E.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for ¼ sec. cor., marked on brass cap 1916 on S. rim; ¼S9 in W. and S10 in E. half; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
63.30	Wash, 25 lks. wide, course SW.
79.00	Wash, 35 lks. wide, course SW. Old road, brs. NE. and SW.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 26 ins. in the ground, for cor. of secs. 3, 4, 9 and 10, marked on brass cap 1916 on S. rim; T16N R20W in N. half; S4 in NW., S3 in NE., S10 in SE. and S9 in SW. quadrant; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Land, rolling. Soil, gravel; 3rd rate.

Subdivision of T. 16 N., R. 20 W. 15.

Chains. No timber.
Undergrowth, greasewood.

40.00 N.89° 45' E., on a random line, bet. secs. 3 and 10.
Set temp. $\frac{1}{4}$ sec. cor.
80.08 Intersect N. and S. line, at the cor. of secs. 2, 3, 10 and 11.
Thence I run
S.89° 45' W., on a true line, bet. secs. 3 and 10.
Over level land, through dense undergrowth.
28.10 Wash, 25 lks. wide, 10 ft. deep, course SW.
40.04 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
1916 on S. rim;
 $\frac{1}{4}$ S3 in N. and
S10 in S. half;
and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
45.10 Enter wash, course W. Comes from NE.
55.10 Leave wash, course SW.
77.10 Wash, 35 lks. wide, 10 ft. deep, course SW. Old road, in wash, brs. NE. and SW.
80.08 The cor. of secs. 3, 4, 9 and 10.
Land, level.
Soil, gravel; 3rd rate.
No timber.
Undergrowth, greasewood.
Mar. 16, 1916: At this cor., I set off 1° 37 $\frac{1}{2}$ ' S. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 45 $\frac{1}{2}$ ' N.

40.00 N.0° 2' W., on a random line, bet. secs. 3 and 4.
Set temp. $\frac{1}{4}$ sec. cor.
79.76 Intersect N. bdy. of Tp., at the cor. of secs. 3, 4, 33 and 34, which is an iron post, established by Me, as described in Book "A".
Thence I run
S.0° 2' E., on a true line, bet. secs. 3 and 4.
Over level land, through dense undergrowth.
39.76 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
1916 on S. rim;
 $\frac{1}{4}$ S4 in W. and
S3 in E. half;
and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
79.76 The cor. of secs. 3, 4, 9 and 10.
Land, level.
Soil, gravel; 3rd rate.
No timber.
Undergrowth, greasewood.

A. S.
Mar. 16, 1916.

Mar. 11, 1916: R. D. A.
From the cor. of secs. 4, 5, 32 and 33, on the S. bdy. of the Tp., which is an iron post, established by John Gonin, U. S. Transitman, as described in Book "A", I run
N.0° 2' W., bet. secs. 32 and 33.
Over broken land, through scattering undergrowth.
Desc. 45 ft. to
15.00 Wash, 15 lks. wide, course NW. Thence along W. slope

16.

Subdivision of T. 16 N., R. 20 W.

Chains.

31.00 Wash, 20 lks. wide, course NW. Asc, slightly to
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
 1916 on S. rim;
 $\frac{1}{4}$ S32 in W. and
 S33 in E. half;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 W. of cor.
 50.15 Desc. 50 ft. to
 Asc. 25 ft. to
 52.10 Desc. 25 ft. to
 55.00 Thence over rolling land.
 65.10 Asc. 20 ft. to
 67.55 Desc. 60 ft. to
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the
 ground, for cor. of secs. 28, 29, 32 and 33, marked on
 brass cap
 1916 on S. rim;
 T16N R20W in N. half;
 S29 in NW.,
 S28 in NE.,
 S33 in SE. and
 S32 in SW. quadrant;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 W. of cor.
 Land, rolling and broken.
 Soil, rocky; 4th rate.
 No timber.
 Undergrowth, greasewood and palo verde.

40.00 N. $89^{\circ} 54'$ E., on a random line, bet. sec. 28 and 33.
 Set temp. $\frac{1}{4}$ sec. cor.
 79.90 Intersect N. and S. line, 2 lks. S. of the cor. of secs.
 27, 28, 33 and 34.
 Thence I run
 S. $89^{\circ} 53'$ W., on a true line, bet. secs. 28 and 33.
 Over broken land, through scattering undergrowth.
 Desc. slightly to
 19.00 Center of wash, 60 lks. wide, course NW. Asc. 70 ft. to
 36.40 Desc. to
 37.20 Wash, 25 lks. wide, course NW. Thence along N. slope.
 39.95 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
 1916 on S. rim;
 $\frac{1}{4}$ S28 in N. and
 S33 in S. half;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 N. of cor.
 Mar. 11, 1916: At this cor., I set off $3^{\circ} 35\frac{1}{2}'$ S. on the
 decl. arc; and at apparent noon, I observe the sun on
 the meridian; the resulting lat. is $34^{\circ} 42'$ N.
 50.00 Wash, 15 lks. wide, 25 ft. deep, course N. Asc. 60 ft. to
 53.85 Desc. 75 ft. to
 69.80 Asc. 25 ft. to
 79.90 The cor. of secs. 28, 29, 32 and 33.
 Land, broken.
 Soil, rocky; 4th rate.
 No timber.
 Undergrowth, greasewood, palo verde and ocotillo.

R. D. A.
 Mar. 11, 1916.

Mar. 15, 1916: A. S.
 At 7 hrs. 58 m., a.m., l.m.t., I set off $34^{\circ} 42'$ N. on the
 lat. arc; $2^{\circ} 4'$ S. on the decl. arc; and determine a

Chains.

meridian with the solar at the cor. of secs. 28, 29, 32 and 33.
 Thence I run
 N.0° 2' W., bet. secs. 28 and 29.
 Over rolling land, through dense undergrowth.
 Asc. slightly to
 Desc. 60 ft. to
 2.20 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 40.00 ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
 1916 on S. rim;
 $\frac{1}{4}$ S29 in W. and
 S28 in E. half;
 dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft.
 dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft.
 high, W. of cor.
 50.00 Center of wash, 2 chs. wide, course NE.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 26 ins. in the
 ground, for cor. of secs. 20, 21, 28 and 29, marked on
 brass cap
 1916 on S. rim;
 T16N R20W in N. half;
 S20 in NW.,
 S21 in NE.,
 S28 in SE. and
 S29 in SW. quadrant;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 W. of cor.
 Land, rolling.
 Soil, gravel and rocks; 4th rate.
 No timber.
 Undergrowth, greasewood.

40.00 N.89° 53' E., on a random line, bet. secs. 21 and 28.
 79.96 Set temp. $\frac{1}{4}$ sec. cor.
 Intersect N. and S. line, 9 lks. N. of the cor. of secs.
 21, 22, 27 and 28.
 Thence I run
 S.89° 57' W., on a true line, bet. secs. 21 and 28.
 Over rolling land, through dense undergrowth.
 22.95 Center of wash, 60 lks. wide, course N.
 37.95 Center of wash, 2 chs. wide, 30 ft. deep, course N.
 39.98 Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
 1916 on S. rim;
 $\frac{1}{4}$ S21 in N. and
 S28 in S. half;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 N. of cor.
 67.95 Center of wash, 2 chs. wide, course N.
 79.96 The cor. of secs. 20, 21, 28 and 29.
 Land, rolling desert.
 Soil, sand and gravel; 4th rate.
 No timber.
 Undergrowth, greasewood, palo verde, ocotillo and sage-
 brush.

25.00 N.0° 2' W., bet. secs. 20 and 21.
 40.00 Over rolling land, through dense undergrowth.
 Center of wash, 4 chs. wide, course N.20° W.
 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
 1916 on S. rim;
 $\frac{1}{4}$ S20 in W. and
 S21 in E. half;
 and raise a mound of stone, 2ft. base, $1\frac{1}{2}$ ft. high,
 W. of cor.

18.

Subdivision of T. 16 N., R. 20 W.

Chains. 80.00	<p>Set an iron post, 3 ft. long, 2 ins. diam., 26 ins. in the ground, for cor. of secs. 16, 17, 20 and 21, marked on brass cap</p> <p>1916 on S. rim; T16N R20W in N. half; S17 in NW., S16 in NE., S21 in SE. and S20 in SW. quadrant;</p> <p>and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.</p> <p>Land, rolling. Soil, gravel and sand; 4th rate. No timber. Undergrowth, greasewood, ocotillo and sagebrush. Mar. 15, 1916: At this cor., I set off $2^{\circ} 1' S.$ on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is $34^{\circ} 43\frac{1}{2}' N.$</p>
40.00 79.90	<p>N. $89^{\circ} 57' E.$, on a random line, bet. secs. 16 and 21. Set temp. $\frac{1}{4}$ sec. cor. Intersect N. and S. line, at the cor. of secs. 15, 16, 21 and 22. Thence I run S. $89^{\circ} 57' W.$, on a true line, bet. secs. 16 and 21. Over rolling land, through scattering undergrowth.</p>
2.60 18.85 39.95	<p>Center of wash, 2 chs. wide, course N. Center of wash, 70 lks. wide, course N. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap</p> <p>1916 on S. rim; $\frac{1}{4}$S16 in N. and S21 in S. half;</p> <p>and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.</p>
42.70 54.90 60.90 74.90 79.90	<p>Center of wash, 70 lks. wide, course N. Center of wash, 3 chs. wide, course NW. Center of wash, 75 lks. wide, course NW. Center of wash, 2.50 chs. wide, course N. The cor. of secs. 16, 17, 20 and 21. Land, rolling. Soil, gravel and sand; 4th rate. No timber. Undergrowth, greasewood, ocotillo and sagebrush.</p>
5.00 34.00 40.00	<p>N. $0^{\circ} 2' W.$, bet. secs. 16 and 17. Over rolling land, through scattering undergrowth. Center of wash, 2 chs. wide, course NW. Center of wash, 1.50 chs. wide, course NW. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap</p> <p>1916 on S. rim; $\frac{1}{4}$S17 in W. and S16 in E. half;</p> <p>dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.</p>
41.70 61.00 72.00 78.00 80.00	<p>"Old Trails" Highway, brs. E. and W. Center of wash, 1.50 chs. wide, course W. Center of wash, 1.50 chs. wide, course W. Center of wash, 1. ch. wide, course W. Set an iron post, 3 ft. long, 2 ins. diam., 26 ins. in the ground, for cor. of secs. 8, 9, 16 and 17, marked on brass cap</p> <p>1916 on S. rim; T16N R20W in N. half;</p>

Subdivision of T. 16 N., R. 20 W. 19.

chains.

S8 in NW.,
 S9 in NE.,
 S16 in SE. and
 S17 in SW. quadrant;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor.
 Land, rolling.
 Soil, sand and gravel; 4th rate.
 No timber.
 Undergrowth, greasewood, ocotillo and sagebrush.
 Mar. 15, 1916.

Mar. 16, 1916: At 7 hrs. 30 m., a.m., l.m.t., I set off
 34° 44½' N. on the lat. arc; 1° 40½' S. on the decl.
 arc; and determine a meridian with the solar at the
 cor. of secs. 8, 9, 16 and 17.
 Thence I run
 N.89° 57' E., on a random line, bet. secs. 9 and 16.
 40.00 Set temp. ¼ sec. cor.
 79.93 Intersect N. and S. line, 9 lks. S. of the cor. of secs.
 9, 10, 15 and 16.
 Thence I run
 S.89° 53' W., on a true line, bet. secs. 9 and 16.
 Over rolling land, through dense undergrowth.
 33.45 Center of wash, 1 ch. wide, course SW.
 39.91½ Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the
 ground, for ¼ sec. cor., marked on brass cap
 1916 on S. rim;
 ¼S9 in N. and
 S16 in S. half;
 and raise a mound of stone, 2 ft. base; 1½ ft. high,
 N. of cor.
 76.45 Center of wash, 1 ch. wide, course SW.
 79.93 The cor. of secs. 8, 9, 16 and 17.
 Land, rolling.
 Soil, sand and gravel; 4th rate.
 No timber.
 Undergrowth, greasewood, ocotillo and sagebrush.

N.0° 2' W., bet. secs. 8 and 9.
 Over rolling land, through dense undergrowth.
 12.35 Main line A. T. and S. F. R. R. brs. N.89½° W. and S.89½° E.
 13.30 Telegraph line, brs. N.89½° W. and S.89½° E.
 14.40 Telegraph line, brs. N.89½° W. and S.89½° E.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for ¼ sec. cor., marked on brass cap
 1916 on S. rim;
 ¼S8 in W. and
 S9 in E. half;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor.
 45.20 Center of wash, 2 chs. wide, course SW. Old road, brs.
 NE. and SW.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 26 ins. in the
 ground, for cor. of secs. 4, 5, 8 and 9, marked on
 brass cap
 1916 on S. rim;
 T16N R20W in N. half;
 S5 in NW.,
 S4 in NE.,
 S9 in SE. and
 S8 in SW. quadrant;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor.
 Land, rolling.
 Soil, sand and gravel; 3rd rate.

20.

Subdivision of T. 16 N., R. 20 W.

Chains.	
	<p>No timber. Undergrowth, greasewood and sagebrush.</p>
40.00 79.90	<p>N.89° 53' E., on a random line, bet. secs. 4 and 9. Set temp. $\frac{1}{4}$ sec. cor. Intersect N. and S. line, at the cor. of secs. 3, 4, 9 and 10. Thence I run S.89° 53' W., on a true line, bet. secs. 4 and 9. Over rolling land, through scattering undergrowth. Wash, 30 lks. wide, course S.</p>
24.00 39.95	<p>Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap 1916 on S. rim; $\frac{1}{4}$S4 in N. and S9 in S. half; and raise a mound of stone, 2 ft. base, 1$\frac{1}{2}$ ft. high, N. of cor.</p>
47.50 79.90	<p>Center of wash, 1.50 chs. wide, 20 ft. deep, course S. The cor. of secs. 4, 5, 8 and 9. Land, rolling. Soil, sand and gravel; 3rd rate. No timber. Undergrowth, greasewood and sagebrush.</p>
	Mar. 16, 1916.
40.00 79.76	<p>Mar. 13, 1916. N.0° 2' W., on a random line, bet. secs. 4 and 5. Set temp. $\frac{1}{4}$ sec. cor. Intersect N. bdy. of Tp.; 11 lks. E. of the cor. of secs. 4, 5, 32 and 33, which is an iron post, established by me, as described in Book "A". Thence I run S.0° 7' E., on a true line, bet. secs. 4 and 5. Over rolling land, through scattering undergrowth.</p>
10.80 39.76	<p>Center of wash, 1 ch. wide, 6 ft. deep, course SW. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap 1916 on S. rim; $\frac{1}{4}$S5 in W. and S4 in E. half; and raise a mound of stone, 2 ft. base, 1$\frac{1}{2}$ ft. high, W. of cor.</p>
78.20 79.76	<p>Wash, 50 lks. wide, 20 ft. deep, course SW. The cor. of secs. 4, 5, 8 and 9. Land, rolling. Soil, gravel and sand; 3rd rate. No timber. Undergrowth, greasewood and sagebrush.</p>
	A. S. Mar. 13 and 16, 1916.
	<p>Mar. 13, 1916: At 8 hrs. 30 M., a.m., l.m.t., I set off 34° 41' N. on the lat. arc; 2° 51' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 5, 6, 31 and 32, on the S. bdy. of the Tp., which is an iron post, established by John Gonin, U. S. Transitman, as described in Book "A". Thence I run N.0° 3' W., bet. secs. 31 and 32. Over mountainous land, through dense undergrowth. Desc. to</p>

Subdivision of T. 16 N., R. 20 W.

21.

Chains.

1.15 Gulch, course NE. Asc. 225 ft. to
 13.05 Top of cliff, 50 ft. high, brs. NE. and SW. Desc. 375 ft.
 to
 23.65 Gulch, 30 lks. wide, course NE. Thence along E. slope.
 34.25 Low spur, slopes NE. Desc. 115 ft.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the
 ground, on bed rock, 18 ins. in a mound of stone, for
 $\frac{1}{4}$ sec. cor., marked on brass cap
 1916 on S. rim;
 $\frac{1}{4}$ S31 in W. and
 S32 in E. half;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 W. of cor.
 40.40 Foot of desc.; thence over rolling land.
 65.40 Asc. 30 ft. to
 68.65 Desc. 30 ft. to
 70.30 Asc. 30 ft. to
 71.95 Desc. 45 ft. to
 75.15 Asc. 20 ft. to
 76.10 Desc. 75 ft. to
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 16 ins. in the
 ground, on solid rock, 12 ins. in a mound of stone, for
 cor. of secs. 29, 30, 31 and 32, marked on brass cap
 1916 on S. rim;
 T16N R20W in N. half;
 S30 in NW.,
 S29 in NE.,
 S32 in SE: and
 S31 in SW. quadrant;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 W. of cor.
 Land, rolling and mountainous.
 Soil, rocky; 4th rate.
 No timber.
 Undergrowth, greasewood, palo verde and ocotillo.

40.00 N. $89^{\circ} 54'$ E., on a random line, bet. secs. 29 and 32.
 Set temp. $\frac{1}{4}$ sec. cor.
 79.94 Intersect N. and S. line, 7 lks. N. of the cor. of secs.
 28, 29, 32 and 33.
 Thence I run
 S. $89^{\circ} 57'$ W., on a true line, bet. secs. 29 and 32.
 Over rolling land, through dense undergrowth.
 6.80 Center of wash, 60 lks. wide, course N.
 39.97 Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the
 ground, on bed rock, for $\frac{1}{4}$ sec. cor., marked on brass
 cap
 1916 on S. rim;
 $\frac{1}{4}$ S29 in N. and
 S32 in S. half;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 N. of cor.
 68.70 Wash, 30 lks. wide, course NE.
 79.94 The cor. of secs. 29, 30, 31 and 32.
 Land, rolling.
 Soil, rocky; 4th rate.
 No timber.
 Undergrowth, greasewood, palo verde and ocotillo.
 Mar. 13, 1916: At this cor., I set off $2^{\circ} 48'$ S. on the
 decl. arc; and at apparent noon, I observe the sun on
 the meridian; the resulting lat. is $34^{\circ} 42'$ N.

40.00 S. $89^{\circ} 54'$ W., on a random line, bet. secs. 30 and 31.
 Set temp. $\frac{1}{4}$ sec. cor.
 78.32 Intersect W. bdy. of Tp., 4 lks. N. of the cor. of secs.
 25, 30, 31 and 36, which is an iron post, established

22.

Subdivision of T. 16 N., R. 20 W.

Chains.	
	<p>by me, as described in Book "A".</p> <p>Thence I run N.89° 52' E., on a true line, bet. secs. 30 and 31. Over mountainous land, through scattering undergrowth. Desc. slightly to 1.30 Wash, 40 lks. wide, course NW. Asc. 250 ft. to 26.20 Spur, slopes N. Desc. 155 ft. to 35.70 Draw, course N. Asc. 140 ft. 38.32 Set an iron post, 3 ft. long, 1 in. diam., on bed rock, 26 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap 1916 on S. rim; $\frac{1}{4}$S30 in N. and S31 in S. half; and raise a mound of stone, 2 ft. base, 1$\frac{1}{2}$ ft. high, N. of cor. 43.70 Spur, slopes N. Desc. 155 ft. to 53.00 Foot of desc.; thence over rolling land. 78.32 The cor. of secs. 29, 30, 31 and 32. Land, rolling and mountainous. Soil, rocky, 4th rate. No timber. Undergrowth, greasewood, palo verde and ocotillo. Mar. 13, 1916.</p>
	<p>Mar. 15, 1916. At 9 hrs. 3 m., a.m., l.m.t., I set off 34° 42' N. on the lat. arc; 2° 3$\frac{1}{2}$' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 29, 30, 31 and 32. Thence I run N.0° 3' W., bet. secs. 29 and 30. Over rolling land, through dense undergrowth. 34.90 Center of wash, 1 ch. wide, course N.15° E. 40.00 Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground, on bed rock, 10 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap 1916 on S. rim; $\frac{1}{4}$S30 in W. and S29 in E. half; and raise a mound of stone, 2 ft. base, 1$\frac{1}{2}$ ft. high, W. of cor. Asc. 80 ft. to 44.25 Desc. 265 ft. to 79.45 Asc. slightly to 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 19, 20, 29 and 30, marked on brass cap 1916 on S. rim; T16N R20W in N. half; S19 in NW., S20 in NE., S29 in SE. and S30 in SW. quadrant; and raise a mound of stone, 2 ft. base, 1$\frac{1}{2}$ ft. high, W. of cor. Land, rolling. Soil, rocky; 4th rate. No timber. Undergrowth, greasewood, palo verde and ocotillo. R. D.A.</p>
	<p>A. S. and R. D. A. 40.00 N.89° 57' E., on a random line, bet. secs. 20 and 29. Set temp. $\frac{1}{4}$ sec. cor. 79.87 Intersect N. and S. line, 28 lks. N. of the cor. of secs.</p>

Cchains

20, 21, 28 and 29.
 Thence I run
 N.89° 51' W., on a true line, bet. secs. 20 and 29.
 Over rolling land, through dense undergrowth.
 10.00 Center of wash, 2 chs. wide, course N.
 39.93½ Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the
 ground, on bed rock, 10 ins. in a mound of stone, for ¼
 sec. cor., marked on brass cap
 1916 on S. rim;
 ¼S20 in N. and
 S29 in S. half;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 N. of cor.
 64.85 Center of wash 1 ch. wide, course NW.
 72.55 Center of wash, 1 ch. wide, course N.
 79.87 The cor. of secs. 19, 20, 29 and 30.
 Land, rolling.
 Soil, sand, gravel and rocks; 4th rate.
 No timber.
 Undergrowth, greasewood, ocotillo and sagebrush.
 A. S. and R. D.A.

R. D. A.
 S.89° 52' W., on a random line, bet. secs. 19 and 30.
 40.00 Set temp. ¼ sec. cor.
 78.10 Intersect W. bdy. of Tp., 2 lks. S. of the cor. of secs.
 19, 24, 25 and 30, which is an iron post, established
 by me, as described in Book "A".
 Thence I run
 N.89° 53' E., on a true line, bet. secs. 19 and 30.
 Over rolling and hilly land, through dense undergrowth.
 Asc. 50 ft. to
 15.20 Desc. 20 ft. to
 18.35 Asc. 50 ft. to
 22.00 Desc. 25 ft. to
 23.20 Asc. 25 ft. to
 26.60 Desc. 25 ft. to
 33.10 Asc. 75 ft.
 38.10 Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the
 ground, on bed rock, 20 ins. in a mound of stone, for
 ¼ sec. cor., marked on brass cap
 1916 on S. rim;
 ¼S19 in N. and
 S30 in S. half;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 N. of cor.
 45.75 Desc. 65 ft. to
 58.30 Asc. 50 ft. to
 61.60 Desc. 20 ft. to
 70.10 Center of wash, 60 lks. wide, course N.10° W. Asc. to
 78.10 The cor. of secs. 19, 20, 29 and 30.
 Land, rolling and hilly.
 Soil, rocky; 4th rate.
 No timber.
 Undergrowth, greasewood, palo verde and ocotillo.
 Mar. 15, 1916: At this cor., I set off 2° 1' S. on the
 decl. arc; and at apparent noon, I observe the sun on
 the meridian; the resulting lat. is 34° 42½' N.

N.0° 3' W., bet. secs. 19 and 20.
 Over rolling land, through dense undergrowth.
 7.50 Center of wash, 1 ch. wide, course NW.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the
 ground, on bed rock, 6 ins. in a mound of stone, for
 ¼ sec. cor., marked on brass cap
 1916 on S. rim;
 ¼S19 in W. and

24. Subdivision of T. 16 N., R. 20 W.

Chains.	
80.00	<p>S20 in E. half; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 17, 18, 19 and 20, marked on brass cap</p> <p>1916 on S. rim; T16N R20W in N. half; S18 in NW., S17 in NE., S20 in SE. and S19 in SW. quadrant; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Land, rolling. Soil, gravel and rocks; 4th rate. No timber. Undergrowth, greasewood, palo verde and ocotillo. R. D. A.</p>
40.00	A. S. and R. D. A.
79.82	<p>S. 89° 51' E., on a random line, bet. secs. 17 and 20. Set temp. ¼ sec. cor. Intersect N. and S. line, 11 lks. S. of the cor. of secs. 16, 17, 20 and 21. Thence I run N. 89° 56' W., on a true line, bet. secs. 17 and 20. Over rolling land, through dense undergrowth.</p>
15.00	Center of wash, 4 chs. wide, course NW.
30.00	Center of wash, 2 chs. wide, course N.
39.91	<p>Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap</p> <p>1916 on S. rim; ¼ S17 in N. and S20 in S. half; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.</p>
79.82	<p>The cor. of secs. 17, 18, 19 and 20. Land, rolling. Soil, gravel; 3rd rate. No timber. Undergrowth, greasewood, palo verde and ocotillo. A. S. and R. D. A.</p>
40.00	R. D. A.
77.90	<p>S. 89° 53' W., on a random line, bet. secs. 18 and 19. Set temp. ¼ sec. cor. Intersect W. bdy. of Tp., 5 lks. N. of the cor. of secs. 13, 18, 19 and 24, which is an iron post, established by me, as described in Book "A". Thence I run N. 89° 51' E., on a true line, bet. secs. 18 and 19. Over rolling land, through dense undergrowth.</p>
29.90	Center of wash, 1 ch. wide, course N.
37.90	<p>Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for ¼ sec. cor. marked on brass cap</p> <p>1916 on S. rim; ¼ S18 in N. and S19 in S. half; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.</p>
74.20	Wash, 30 lks. wide, course N. 10° W.
77.90	<p>The cor. of secs. 17, 18, 19 and 20. Land, rolling. Soil, gravel; 3rd rate. No timber. Undergrowth, greasewood, palo verde and ocotillo. Mar. 15, 1916.</p>

Subdivision of T. 16 N., R. 20 W.

chains.

Mar. 16, 1916: At 8 hrs. 54 m., a.m., l.m.t., I set off 34° 43½' N. on the lat. arc; 1° 40' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 17, 18, 19 and 20.

Thence I run

N.0° 3' W., bet. secs. 17 and 18.

Over rolling land, through dense undergrowth.

37.10

"Old Trails" Highway, brs. E. and W.

40.00

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for ¼ sec. cor., marked on brass cap

1916 on S. rim;

¼S18 in W. and

S17 in E. half;

and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

70.00

Center of wash, 3 chs. wide, course S.80° W.

80.00

Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 7, 8, 17 and 18, marked on brass cap

1916 on S. rim;

T16N R20W in N. half;

S7 in NW.,

S8 in NE.;

S17 in SE. and

S18 in SW. quadrant;

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 desert.

Soil, gravel; 3rd rate.

No timber.

Undergrowth, greasewood, palo verde and cat claw.

S.89° 56' E., on a random line, bet. secs. 8 and 17.

40.00

Set temp. ¼ sec. cor.

79.90

Intersect N. and S. line, 19 lks. S. of the cor. of secs. 8, 9, 16 and 17.

Thence I run

S.89° 56' W., on a true line, bet. secs. 8 and 17.

Over level land, through dense undergrowth.

.15

Enter wash, course W. Comes from SE.

9.90

Leave wash, 60 lks. wide, course NW.

39.66

From this point, Powell section house brs. N.21° 15' E.

East End of Mexican Quarters brs. N.10¼° W.

West End of Mexican Quarters brs. N.16° W.

39.95

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

1916 on S. rim;

¼S8 in N. and

S17 in S. half;

and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.

43.90

Center of wash, 1 ch. wide, course SW.

79.90

The cor. of secs. 7, 8, 17 and 18.

Land, level.

Soil, sandy and gravelly; 3rd rate.

No timber.

Undergrowth, greasewood, palo verde and cat claw.

S.89° 51' W., on a random line, bet. secs. 7 and 18.

40.00

Set temp. ¼ sec. cor.

77.75

Intersect W. bdy. of Tp., at the cor. of secs. 7, 12, 13 and 18, which is an iron post, established by me, as described in Book "A".

Thence I run

26.

Subdivision of T. 16 N., R. 20 W.

Chains.

37.75 N.89° 51' E., on a true line, bet. secs. 7 and 18.
Over level land, through dense undergrowth.
Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
1916 on S. rim;
 $\frac{1}{4}$ S7 in N. and
S18 in S. half;
and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
N. of cor.

59.45 Center of wash, 1.50 chs. wide, course NW.
77.75 The cor. of secs. 7, 8, 17 and 18.
Land, level.
Soil, sandy; 3rd rate.
No timber,
Undergrowth, greasewood, palo verde, and cat claw.

13.06 N.0° 3' W., bet. secs. 7 and 8.
Over level land, through dense undergrowth.
From this point, Powell Siding of A. T. and S. F. R. R.
brs. S.89° 45' E.

13.16 From this point, Powell Section House brs. N.89° E.
Both ends of Mexican quarters br. N.88° 10' E.

13.20 Main track A. T. and S. F. R. R. brs. N.89° 45' W. and
S.89° 45' E.

13.90 Telegraph line, brs. N.89° 45' E. and S.89° 45' E.
14.08 Telegraph line, brs. N.89° 45' W. and S.89° 45' E.
40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
1916 on S. rim;
 $\frac{1}{4}$ S7 in W. and
S8 in E. half;
and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
W. of cor.

45.00 Center of wash, 1 ch. wide, course SW.
80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the
ground, for cor. of secs. 5, 6, 7 and 8, marked on
brass cap
1916 on S. rim;
T16N R20W in N. half;
S6 in NW.,
S5 in NE.,
S8 in SE. and
S7 in SW. quadrant;
and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
W. of cor.
Land, rolling desert.
Soil, sand and gravel; 3rd rate.
No timber.
Undergrowth, greasewood, palo verde and cat claw.
Mar. 16, 1916: At this cor., I set off 1° 37 $\frac{1}{2}$ ' S. on the
decl. arc; and at apparent noon, I observe the sun on
the meridian; the resulting lat. is 34° 45 $\frac{1}{2}$ ' N.
R. D. A.

A. S.
40.00 N.89° 56' E., on a random line, bet. secs. 5 and 8.
Set temp. $\frac{1}{4}$ sec. cor.
80.00 Intersect N. and S. line, 19 lks. N. of the cor. of secs.
4, 5, 8 and 9.
Thence I run
N.89° 56' W., on a true line, bet. secs. 5 and 8.
Over rolling land, through dense undergrowth.

4.20 Wash, 50 lks. wide, course SW.
40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
1916 on S. rim;
 $\frac{1}{4}$ S5 in N. and

Chains.

S8 in S. half;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 N. of cor.
 55.20 Center of wash, 70 lks. wide, course S.
 40.00 The cor. of secs. 5, 6, 7 and 8.
 Land, rolling desert.
 Soil, gravel; 3rd rate.
 No timber.
 Undergrowth, greasewood and palo verde.

A. S.
 Mar. 16, 1916.

Mar. 14, 1916: R. D. A.
 S.89° 51' W., on a random line, bet. secs. 6 and 7.
 40.00 Set temp. ¼ sec. cor.
 77.68 Intersect W. bdy. of Tp., 9 lks. N. of the cor. of secs.
 1, 6, 7 and 12, which is an iron post, established by
 me, as described in Book "A".
 Thence I run
 N.89° 47' E., on a true line, bet. secs. 6 and 7.
 Over rolling land, through dense undergrowth.
 37.68 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for ¼ sec. cor., marked on brass cap
 1916 on S. rim;
 ¼S6 in N. and
 S7 in S. half;
 dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft.
 dist.; and raise a mound of earth, 3½ ft. base, 1½ ft.
 high, N. of cor.
 77.68 The cor. of secs. 5, 6, 7 and 8.
 Land, rolling desert.
 Soil, sand and gravel; 3rd rate.
 No timber.
 Undergrowth, greasewood, palo verde and ocotillo.

R. D. A.
 Mar. 14 and 16, 1916.

Mar. 22, 1916: A. S.
 N.0° 3' W., on a random line, bet. secs. 5 and 6.
 40.00 Set temp. ¼ sec. cor.
 79.81 Intersect N. bdy. of Tp., 26 lks. E. of the cor. of secs.
 5, 6, 31 and 32, which is an iron post, established by
 me, A., as described in Book "A".
 Thence I run
 S.0° 14' E., on a true line, bet. secs. 5 and 6.
 Over rolling land, through dense undergrowth.
 39.81 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for ¼ sec. cor., marked on brass cap
 1916 on S. rim;
 ¼S6 in W. and
 S5 in E. half;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor.
 79.81 The cor. of secs. 5, 6, 7 and 8.
 Land, rolling.
 Soil, gravel; 3rd rate.
 No timber.
 Undergrowth, greasewood, palo verde and ocotillo.

A. S.
 Mar. 22, 1916.

GENERAL DESCRIPTION.

This township is principally a rolling plain, broken by small gulches and washes, except in the southern portion, which is somewhat mountainous. The soil consists of rock, and gravel, and has little agricultural value without water.

The main line of the Atchison, Topeka and Santa Fe R. R. passes through the township from east to west. Powell Siding is in sec. 8, where a section foreman and crew are located. There are no actual settlers and few indications of minerals. The only water in the township is at Powell.

U. S. Surveyor.

U. S. Transition.

For Certificate of U.S. Surveyor and U.S. Transitman
see page II, Book "B" of this Group.

FINAL OATH OF UNITED STATES SURVEYOR.

BOOK 2953

29

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 April 10 _____, 1917.

The foregoing field notes of the survey of the
Subdivision lines of
Township 16 North, Range 20 West
of the Gila & Salt River Base & Meridian
in the State of Arizona

executed by Albert Smith Jr., U.S. Surveyor & Ray D. Armstrong, U.S. Transitman under his special instructions dated December 28, 1914 for Group 42 Arizona, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

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.~~