

151

2952

Book "T"

4-679

BOOK 2952

Subdivisions

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION LINES OF

FRACTIONAL TOWNSHIP 16½ NORTH, RANGE 19 WEST

2952

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

2952

~~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.

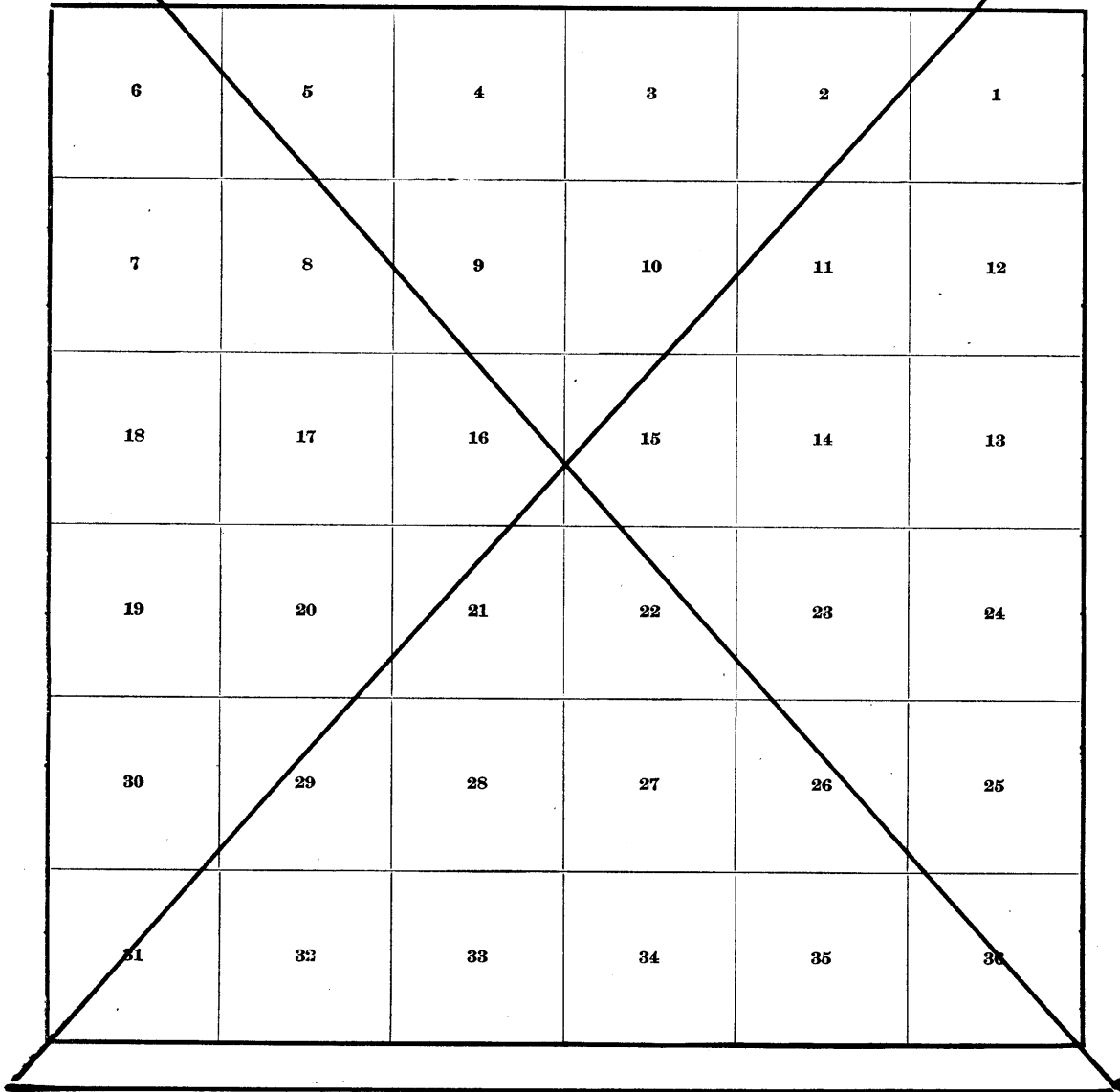
Survey commenced March 4, 1916

Survey completed March 8, 1916

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

INDEX DIAGRAM.

Township _____, Range _____



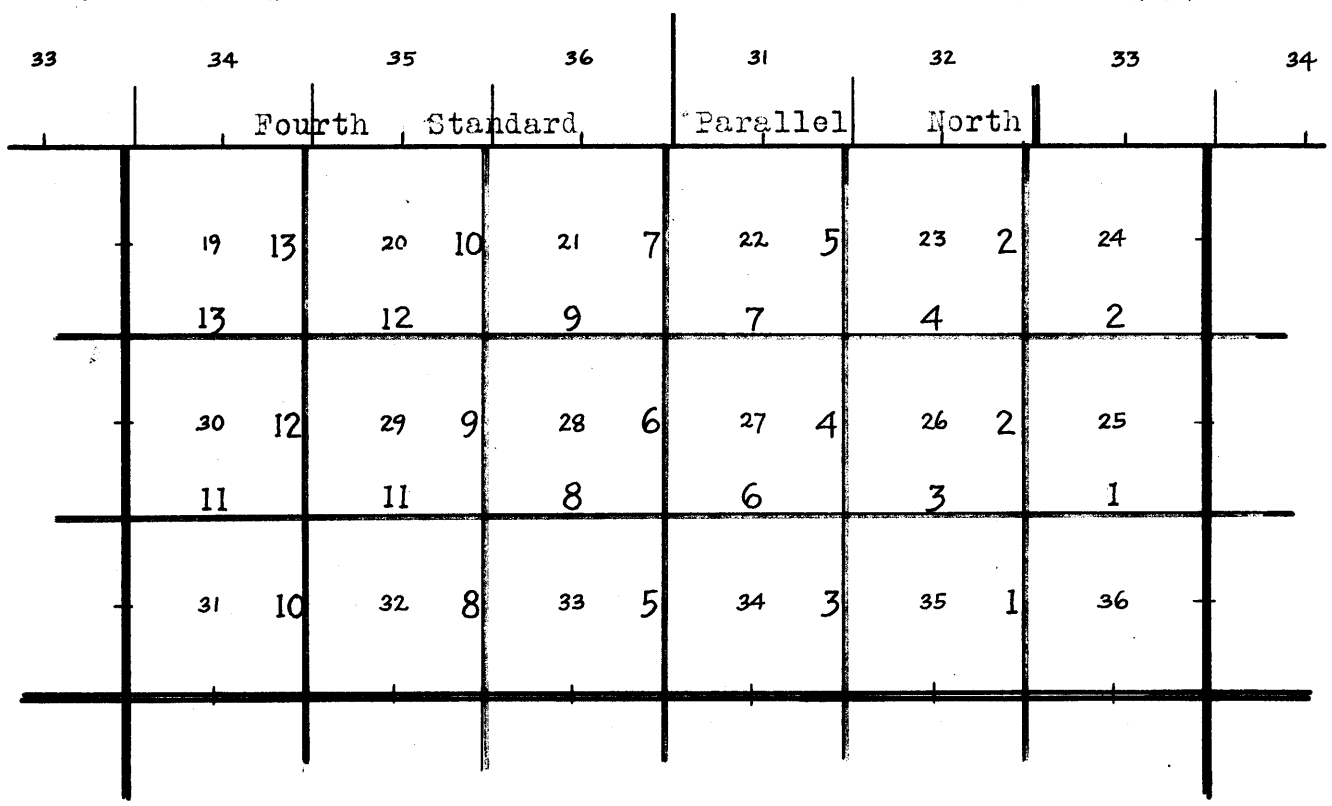
Book "T"
 Group 42, Arizona.
 (Subdivisions.)

BOOK 2952

INDEX DIAGRAM
 FRACTIONAL TOWNSHIP 16½ NORTH, RANGE 19 WEST.

T. 17 N. - R. 19 W.

T. 17 N. - R. 18 W.



- Township Exteriors. Notes in Book "A"
- Subdivision lines surveyed under this Group.
- Lines surveyed under Group 43.
- Accepted surveys.

Subdivision of Fractional T. 16 1/2 N., R. 19 W. 1B

Chains.

Survey commenced Mar. 4, 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.

Mar. 6, 1916; R. D. A.
 From the cor. of secs. 1, 2, 35 and 36, on the S. bdy. of the Tn., which is an iron post, established by A. S., as described in Book "A", I run
 N.0° 1' W., bet. secs. 35 and 36.
 Over rolling land, through dense undergrowth.

12.35 Center of wash, 2 chs. wide, course SW.
 19.35 Center of wash, 1 ch. wide, course SW.
 23.05 Main line A. T. and S. F. R. R. brs. S.50° W. and N.50° E.
 24.36 Telegraph line, brs. NE. and SW.
 26.36 Telegraph line, brs. NE. and SW.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for 1/4 sec. cor., marked on brass cap
 1916 on S. rim;
 1/4 S35 in W. and
 S36 in E. half;
 and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

68.86 Center of wash, 2 chs. wide, course SE.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 16 ins. in the ground, 10 ins. in a mound of stone, for cor. of secs. 25, 26, 35 and 36, marked on brass cap
 1916 on S. rim;
 T16 1/2 N R19 W 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, 1 1/2 ft. high, W. of cor.

Land, rolling.
 Soil, gravelly and rocky; 3rd and 4th rate.
 No timber.
 Undergrowth, palo verde and greasewood.

40.00 East on a random line, bet. secs. 25 and 36.
 Set temp. 1/4 sec. cor.
 80.12 Intersect E. bdy. of Tn., 11 lks. N. of 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
 N.89° 55' W., on a true line, bet. secs. 25 and 36.
 Over rolling land, through dense undergrowth.

6.50 Center of wash, 3 chs. wide, course SW.
 21.00 Main line A. T. and S. F. R. R. brs. N.44 1/2° E. and S.44 1/2° W.
 22.40 Telegraph line, brs. N.44 1/2° E. and S.44 1/2° W.
 24.00 Telegraph line, brs. N.44 1/2° E. and S.44 1/2° W.
 40.06 Set an iron post, 3 ft. long, 1 in. diam., 14 ins. in the ground, 13 ins. in a mound of stone, for 1/4 sec. cor., marked on brass cap
 1916 on S. rim;
 1/4 S25 in N. and
 S36 in S. half;
 and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

80.12 The cor. of secs. 25, 26, 35 and 36.

2. Subdivision of Fractional T. 16 $\frac{1}{2}$ N., R. 19 W.

Chains.	<p>Land, rolling. Soil, gravelly and rocky; 3rd and 4th rate. No timber. Undergrowth, greasewood and palo verde.</p> <p style="text-align: right;">Mar. 6, 1916.</p>
40.00	<p>Mar. 7, 1916. N.0° 1' W., bet. secs. 25 and 26. Over rolling land, through dense undergrowth. Asc. 210 ft.</p> <p>Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground, 18 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 W. and S25 in E. half; and raise a mound of stone, 2 ft. base, 1$\frac{1}{2}$ ft. high, W. of cor.</p>
45.00	Thence over gently rolling land.
80.00	<p>Set a malpais stone, 18 X 6 X 6 ins., 15 ins. in the ground, for cor. of secs. 23, 24, 25 and 26, marked with 1 notch on E. and 2 notches on S. edge; and raise a mound of stone, 2 ft. base, 1$\frac{1}{2}$ ft. high, W. of cor. No iron post available.</p> <p>Land, rolling. Soil, rocky; 4th rate. No timber. Undergrowth, greasewood and palo verde.</p> <p>Mar. 7, 1916: At this cor., I set off 5° 9' S. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 48' N.</p>
40.00	S.89° 55' E., on a random line, bet. secs. 24 and 25.
79.98	<p>Set temp. $\frac{1}{4}$ sec. cor. Intersect E. bdy. of Sp., 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".</p> <p>Thence I run N.89° 56' W., on a true line, bet. secs. 24 and 25. Over gently rolling land, through dense undergrowth.</p>
13.25	Desc. 85 ft. to
23.80	Wash, 50 lks. wide, course S. Asc. 110 ft. to
35.00	Thence over gently rolling land.
39.99	<p>Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground, 22 ins. in a mound of stone, 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; and raise a mound of stone, 2 ft. base, 1$\frac{1}{2}$ ft. high, N. of cor.</p>
79.98	<p>The cor. of secs. 23, 24, 25 and 26. Land, rolling. Soil, rocky; 4th rate. No timber. Undergrowth, greasewood and palo verde.</p>
40.00	<p>N.0° 1' W., on a true line, bet. secs. 23 and 24. Over rolling land, through dense undergrowth. Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground, 20 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap 1916 on S. rim; $\frac{1}{4}$S23 in W. and</p>

Subdivision of Fractional T. 16 1/2 N., R. 19 W. 3.

<p>Chains. 50.00 60.00 71.60 83.34</p>	<p>S24 in E. half; and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Desc. 85 ft. to Wash, 15 lks. wide, course SE. Asc. 105 ft. to Thence over gently rolling land. Intersect Fourth Standard Parallel North, 5.53 chs. W. of the standard cor. of secs. 32 and 33, T. 17 N., R. 18 W., which is a granite stone, 14 X 8 X 6 ins. above ground, marked and witnessed as described by the Survey- or-General. At the point of intersection, set a malpais stone, 18 X. 12 X 6 ins., 12 ins. in the ground, for closing cor. of secs. 23 and 24, marked CC. on S. face; with 1 groove on E. and 5 grooves on W. face; and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, S. of cor. Land, rolling. Soil, rocky; 4th rate. No timber. Undergrowth, greasewood and palo verde.</p>
<p>25.00 40.00 55.00 80.00</p>	<p>From the cor. of secs. 2, 3, 34 and 35, on the S. bdy. of the Tp., which is an iron post, established by A. S., as described in Book "A", I run N.0° 1' W., bet. secs. 34 and 35. Over rolling land, through dense undergrowth. Wash, 50 lks. wide, 10 ft. deep, course SW. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for 1/4 sec. cor., marked on brass cap 1916 on S. rim; 1/4 S34 in W. and S35 in E. half; and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Wash, 25 lks. wide, course SE. Set an iron post, 3 ft. long, 2 ins. diam., 23 ins. in the ground, in a mound of stone, for cor. of secs. 26, 27, 34 and 35, marked on brass cap 1916 on S. rim; T16 1/2 N R19 W 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 1/2 ft. high, W. of cor. Land, rolling. Soil, rocky; 4th rate. No timber. Undergrowth, greasewood, palo verde and ocotillo.</p>
<p>40.00 79.94 18.45 39.97</p>	<p>East on a random line, bet. secs. 26 and 35. Set temp. 1/4 sec. cor. Intersect N. and S. line, 2 lks. N. of the cor. of secs. 25, 26, 35 and 36. Thence I run N.89° 59' W., on a trueline, bet. secs. 26 and 35. Over rolling land, through dense undergrowth. Center of wash, 1.50 chs. wide, course SE. Asc. 80 ft. Set an iron post, 3 ft. long, 1 in. diam., 13 ins. in the ground, 15 ins. in a mound of stone, for 1/4 sec. cor., marked on brass cap 1916 on S. rim; 1/4 S26 in N. and S35 in S. half; and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,</p>

4. Subdivision of Fractional T. 16 $\frac{1}{2}$ N., R. 19 W.

Chains.

N. of cor.
 46.90 Desc. 45 ft. to
 50.45 Asc. 40 ft. to
 58.80 Desc. 75 ft. to
 65.25 Wash, course S. Asc. 70 ft. to
 72.20 Desc. 125 ft. to
 79.94 The cor. of secs. 26, 27, 34 and 35.
 Land, rolling.
 Soil, rocky; 4th rate.
 No timber.
 Undergrowth, greasewood, palo verde and ocotillo.
 Mar. 7, 1916.

 $\frac{1}{4}$

Mar. 8, 1916: At 9 hrs. 4 m., a.m., l.m.t., I set off
 34° 47' N. on the lat. arc; 4° 48 $\frac{1}{2}$ ' 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 land, through dense undergrowth.
 20.00 Asc. 70 ft. to
 30.00 Thence over gently rolling land.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the
 ground, 20 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor.,
 marked on brass cap
 1916 on S. rim;
 $\frac{1}{4}$ S27 in W. and
 S26 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., 24 ins. in the
 ground, for cor. of secs. 22, 23, 26 and 27, marked on
 brass cap
 1916 on S. rim;
 T16 $\frac{1}{2}$ N R19W 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, 1 $\frac{1}{2}$ ft. high,
 W. of cor.
 Land, rolling desert.
 Soil, rocky; 4th rate.
 No timber.
 Undergrowth, greasewood and palo verde.

S.89° 59' E., on a random line, bet. secs. 23 and 26.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.10 Intersect N. and S. line, 23 lks. S. of the cor. of secs.
 23, 24, 25 and 26.
 Thence I run
 S.89° 51' W., on a true line, bet. secs. 23 and 26.
 Over rolling land, through dense undergrowth.
 20.00 Desc. 100 ft. to
 30.00 Thence over gently rolling land.
 40.05 Set an iron post, 3 ft. long, $\frac{1}{2}$ 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 N. and
 S26 in S. half;
 and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
 N. of cor.
 52.90 Wash, 50 lks. wide, 50 ft. deep, course S. Asc. 85 ft. to
 65.20 Desc. 85 ft. to
 80.10 The cor. of secs. 22, 23, 26 and 27.
 Land, rolling.

Subdivision of Fractional T. 16 1/2 N., R. 19 W. 5.

Chains.

Soil, rocky; 4th rate.
No timber.
Undergrowth, greasewood and ocotillo.
Mar. 8, 1916: At this cor., I set off 4° 46' S. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 48' N.

40.00
45.00
70.00
80.00
83.60

N.0° 1' W., on a true line, bet. secs. 22 and 23.
Over rolling land, through dense undergrowth.
Asc. gradually, 200 ft.
Set an iron post, 3 ft. long, 1 in. diam., on bed rock, 28 ins. in a mound of stone, for 1/4 sec. cor., marked on brass cap
1916 on S. rim;
1/4 S22 in W. and
S23 in E. half;
and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.
Desc. 150 ft. to
Asc. 80 ft. to
Desc. 70 ft. to
Intersect Fourth Standard Parallel North, 5.52 chs. W. of the standard cor. of secs. 31 and 32, T. 17 N., R. 18 W., which is a limestone, 4 X 7 X 4 ins., above ground, marked and witnessed as described by the Surveyor-General.
At the point of intersection, set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the ground, 30 ins. in a mound of stone, for closing cor. of secs. 22 and 23. marked on brass cap
1916 on S. rim;
CC S. of center;
S31 in N. half;
S23 R19W in SE. and
S22 T16 1/2 N in SW. quadrant;
and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.
Land, rolling.
Soil, rocky; 4th rate.
No timber.
Undergrowth, greasewood and palo verde.

R. D. A.
Mar. 8, 1916.

40.00
80.00

Mar. 7, 1916: A. S.
From the cor. of secs. 3, 4, 33 and 34, on the S. bdy. of the Tp., which is an iron post, established by me, as described in Book "A", I run
N.0° 2' W., bet. secs. 33 and 34.
Over rolling land, through dense undergrowth.
Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for 1/4 sec. cor., marked on brass cap
1916 on S. rim;
1/4 S33 in W. and
S34 in E. half;
and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.
Set an iron post, 3 ft. long, 2 ins. diam., on bed rock, 30 ins. in a mound of stone, for cor. of secs. 27, 28, 33 and 34, marked on brass cap
1916 on S. rim;
T16 1/2 N R19W in N. half;
S28 in NW.,
S27 in NE.,
S34 in SE. and
S33 in SW. quadrant;

6. Subdivision of Fractional T. 16 $\frac{1}{2}$ N., R. 19 W.

Chains.

	<p>and raise a mound of stone, 2 ft. base, 1$\frac{1}{2}$ ft. high, W. of cor. Land, rolling desert. Soil, 4th rate. No timber. Undergrowth, greasewood.</p> <p style="text-align: right;">Mar. 7, 1916.</p>
40.00	Mar. 8, 1916: At 9 hrs. 58 m., a.m., 1.m.t., I set off 34° 47' N. on the lat. arc; 4° 47 $\frac{1}{4}$ ' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 27, 28, 33 and 34.
79.95	Thence I run East on a random line, bet. secs. 27 and 34. Set temp. $\frac{1}{4}$ sec. cor. Intersect N. and S. line, 2 lks. S. of the cor. of secs. 26, 27, 34 and 35.
13.25	Thence I run S.89° 59' W., on a true line, bet. secs. 27 and 34. Over rolling land, through dense undergrowth. Desc. to Wash, 50 lks. wide, 100 ft. deep, course SW. Asc. 95 ft. to
22.15	Desc. 45 ft. to
30.15	Asc. 20 ft. to
32.60	Desc. 95 ft.
39.97 $\frac{1}{2}$	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; $\frac{1}{4}$ S27 in N. and S34 in S. half; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
45.15	From this cor., rocky butte brs. N.45° W., 25.00 chs. dist.
57.15	Wash, course SW. Asc. 30 ft. to
59.95	Desc. 35 ft. to
68.60	Asc. 40 ft. to
69.95	Desc. 15 ft. to
79.95	Asc. 70 ft. to The cor. of secs. 27, 28, 33 and 34. Land, rolling. Soil, rocky; 4th rate. No timber. Undergrowth, greasewood.
10.00	N.0° 2' W., bet. secs. 27 and 28. Over rolling land, through dense undergrowth. Desc. 50 ft. to
17.20	Center of wash, 60 lks. wide, course SW. Asc. 40 ft. to
23.00	Hill, brs. E. and W. Desc. 45 ft. to
25.00	Foot of desc.; thence over gently rolling land.
40.00	Set an iron post, 3 ft. long, 1 in. diam., on bed rock, 28 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.
44.00	Asc. 50 ft. to
45.00	Desc. 15 ft. to
80.00	Thence over gently rolling land. Set an iron post, 3 ft. long, 2 ins. dia., 26 ins. in the ground, for cor. of secs. 21, 22, 27 and 28, marked on brass cap 1916 on S. rim;

Subdivision of Fractional T. 16 $\frac{1}{2}$ N., R. 19 W. 7.

Chains.

T16 $\frac{1}{2}$ N R19W 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 desert.
 Soil, rocky; 3rd rate.
 No timber.
 Undergrowth, greasewood.
 Mar. 8, 1916: At this cor., I set off 4° 46' S. on the
 decl. arc; and at apparent noon, I observe the sun on
 the meridian; the resulting lat. is 34° 48' N.
 A. S.

40.00 R.D.A.
 79.81 N.89° 59' E., on a random line, bet. secs. 22 and 27.
 Set temp. $\frac{1}{4}$ sec. cor.
 Intersect N. and S. line, at the cor. of secs. 22, 23, 26
 and 27.
 Thence I run
 S.89° 59' W., on a true line, bet. secs. 22 and 27.
 Over rolling land, through dense undergrowth.
 Asc. 140 ft. to
 21.80 Thence over gently rolling land.
 31.40 Desc. 45 ft. to
 39.90 $\frac{1}{2}$ Set an iron post, 3 ft. long, 1 in. diam., on bed rock,
 28 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 N. and
 S27 in S. half;
 and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
 N. of cor.
 Asc. 35 ft. to
 45.00 Desc. 125 ft. to
 75.00 Center of wash, 1 ch. wide, course SW. Asc. to
 79.81 The cor. of secs. 21, 22, 27 and 28.
 Land, rolling and broken.
 Soil, rocky; 4th rate.
 No timber.
 Undergrowth, greasewood and palo verde.
 R. D. A.

A. S.
 N.0° 2' W., on a true line, bet. secs. 21 and 22.
 Over broken land, through dense undergrowth.
 Asc. 35 ft. to
 13.95 Hill, brs. E. and W. Desc. 25 ft. to
 14.90 Asc. 60 ft. to
 28.55 Desc. 25 ft. to
 40.00 Impracticable to set the $\frac{1}{4}$ sec. cor. at this point.
 40.45 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for witness cor. to $\frac{1}{4}$ sec. cor., marked on
 brass cap 1916 on S. rim;
 WC $\frac{1}{4}$ N. of center;
 $\frac{1}{4}$ 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.
 45.00 Asc. 85 ft. to
 53.90 Thence over gently rolling land.
 59.00 Head of wash, course SE. Asc. 85 ft. to
 69.00 Hill, brs. E. and W. Desc. 100 ft. to
 80.70 Wash, 15 lks. wide, course W. Asc. to

8. Subdivision of Fractional T. 16 $\frac{1}{2}$ N., R. 19 W.

Chains.	
83.93	<p>Intersect Fourth Standard Parallel North, 5.65 chs. W. of the standard cor. of Tps. 17 N., Rs. 18 and 19 W., which is a granite stone, 12 X 12 X 4 ins., set in a mound of stone, marked and witnessed as described by the Surveyor-General.</p> <p>At the point of intersection, set an iron post, 3 ft. long, 2 ins. diam., on bed rock, 28 ins. in a mound of stone, for closing cor. of secs. 21 and 22, marked on brass cap</p> <p style="padding-left: 40px;">1916 on S. rim; CC S. of center; S36 in N. half; R19W S22 in SE., T16$\frac{1}{2}$N S21 in SW. quadrant;</p> <p>and raise a mound of stone, 2 ft. base, 1$\frac{1}{2}$ ft. high, S. of cor.</p> <p>Land, broken. Soil, rocky; 4th rate. No timber. Undergrowth, greasewood.</p> <p style="text-align: right;">Mar. 8, 1916.</p>
40.00	<p>Mar. 6, 1916: At 8 hrs. 10 m., a.m., l.m., I set off 34° 46' N. on the lat. arc; 5° 35$\frac{1}{2}$' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 4, 5, 32 and 33, on the S. bdy. of the Tp., which is an iron post, established by me, as described in Book "A".</p> <p>Thence I run N.0° 2' W., bet. secs. 32 and 33. Over rolling land, through scattering undergrowth.</p> <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</p> <p style="padding-left: 40px;">1916 on S. rim; $\frac{1}{4}$S32 in W. and S33 in E. half;</p> <p>and raise a mound of stone, 2 ft. base, 1$\frac{1}{2}$ ft. high, W. of cor.</p>
41.00	Wash, 25 lks. wide, course SW.
80.00	<p>Set an iron post, 3 ft. long, 2 ins. diam., 20 ins. in the ground, 10 ins. in a mound of stone, for cor. of secs. 28, 29, 32 and 33, marked on brass cap</p> <p style="padding-left: 40px;">1916 on S. rim; T16$\frac{1}{2}$N R19W in N. half; S29 in NW., S28 in NE., S33 in SE. and S32 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 desert. Soil, 3rd rate. No timber. Undergrowth, greasewood.</p> <p style="text-align: right;">Mar. 6, 1916.</p>
40.00	Mar. 7, 1916.
80.08	<p>East on a random line, bet. secs. 28 and 33. Set temp. $\frac{1}{4}$ sec. cor.</p> <p>Intersect N. and S. line, 7 lks. N. of the cor. of secs. 27, 28, 33 and 34.</p> <p>Thence I run N.89° 57' W., on a true line, bet. secs. 28 and 33. Over rolling land, through dense undergrowth.</p> <p>Center of wash, 1 ch. wide, course S.30° W.</p> <p>Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the</p>
16.40	
40.04	

Subdivision of Fractional T. 16 $\frac{1}{2}$ N., R. 19 W. 9.

Chains.

80.08 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.
 The cor. of secs. 28, 29, 32 and 33.
 Land, rolling desert.
 Soil, 3rd rate.
 No timber.
 Undergrowth, greasewood.
 Mar. 7, 1916: At this cor., I set off 5° 9' S. on the
 decl. arc; and at apparent noon, I observe the sun on
 the meridian; the resulting lat. is 34° 47' N.

10.00 N.0° 2' W., bet. secs. 28 and 29.
 Over rolling land, through dense undergrowth.
 Wash, 50 lks. wide, course SW.
 40.00 Set a granite stone, 12 X 10 X 10 ins., 8 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; 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., 8 ins. in the
 ground, 20 ins. in a mound of stone, for cor. of secs.
 20, 21, 28 and 29, marked on brass cap
 1916 on S. rim;
 T16 $\frac{1}{2}$ N R19W 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, broken and rolling.
 Soil, rocky; 4th rate.
 No timber.
 Undergrowth, greasewood.

40.00 S.89° 57' E., on a random line, bet. secs. 21 and 28.
 Set temp. $\frac{1}{4}$ sec. cor.
 80.15 Intersect N. and S. line, 7 lks. S. of the cor. of secs.
 21, 22, 27 and 28.
 Thence I run
 West on a true line, bet. secs. 21 and 28.
 Over broken land, through dense undergrowth.
 33.75 Desc. 24 ft. to
 35.15 Asc. 20 ft. to
 38.15 Desc. 50 ft.
 40.07 $\frac{1}{2}$ Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the
 ground, 10 ins. in a mound of stone, 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.
 45.30 Asc.. 30 ft. to
 48.75 Desc. 20 ft. to
 50.15 Asc. 35 ft. to
 53.35 Desc. 40 ft. to
 65.16 Thence over gently rolling land.
 80.15 The cor. of secs. 20, 21, 28 and 29.
 Land, rolling and broken.
 Soil, 4th rate.
 No timber.
 Undergrowth, greasewood.

10. Subdivision of Fractional T. 16 $\frac{1}{2}$ N., R. 19 W.

Chains.

N.0° 2' W., on a true line, bet. secs. 20 and 21.
Over broken, hilly land, through dense undergrowth.

5.00 Asc. 25 ft. to
6.50 Desc. 35 ft. to
10.00 Asc. 120 ft. to
19.55 Desc. 85 ft. to
24.50 Asc. 30 ft. to
28.50 Desc. slightly to
30.80 Center of wash, 60 lks. wide, course SW. Asc. 70 ft. to
40.00 Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the
ground, 8 ins. in a mound of stone, 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, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
W. of cor.
Desc. 40 ft. to
45.00 Asc. 415 ft. to
83.97 Intersect Fourth Standard Parallel North, 5.83 chs. W. of
the standard cor. of secs. 35 and 36, T. 17 N., R. 19
W., which is a malpais stone, 20 X 10 X 6 ins., set
in a mound of stone, marked and witnessed as described
by the Surveyor-General.
At the point of intersection, set an iron post, 3 ft. long,
2 ins. diam., 18 ins. in the ground, 12 ins. in a mound
of stone, for closing cor. of secs. 20 and 21,
marked on brass cap
1916 on S. rim;
CC S. of center;
S35 in N. half;
R19W S21 in SE. and
T16 $\frac{1}{2}$ N S20 in SW. quadrant;
and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
S. of cor.
Land, rolling, broken and hilly.
Soil, rocky; 4th rate.
No timber.
Undergrowth, greasewood.

Mar. 7, 1916.

Mar. 4, 1916: At 8 hrs. 0 m., a.m., l.m.t., I set off 34°
46' N. on the lat. arc; 6° 22' 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 me, as described in
Book "A".
Thence I run
N.0° 3' W., bet. secs. 31 and 32.
Over rolling and broken land, through scattering undergrowth.

4.50 Desc. 30 ft. to
Wash, 25 lks. wide, 40 ft. deep, course SW. Asc. 170 ft.
to
29.70 Hill, brs. SE. and NW. Desc. 40 ft. 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;
 $\frac{1}{4}$ 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.
Asc. 25 ft. to
42.50 Desc. 20 ft. to
44.95 Asc. 45 ft. to
52.70 Desc. 75 ft. to
59.80 Wash, course W. Thence along W. slope.
62.00 Wash, 50 lks. wide, course W. Asc. 35 ft. to
65.75 Desc. 30 ft. to
69.00 Wash, 25 lks. wide, course W. Asc. 95 ft. to

Subdivision of Fractional T. 16 1/2 N., R. 19 W. 11.

Chains.
80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 29, 30, 31 and 32, marked on brass cap

1916 on S. rim;
T16 1/2 N R19 W 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 1/2 ft. high, W. of cor.
Land, rolling and broken.
Soil, rocky; 4th rate.
No timber.
Undergrowth, greasewood.

Mar. 4, 1916.

40.00 Mar. 6, 1916.
East on a random line, bet. secs. 29 and 32.
Set temp. 1/4 sec. cor.
79.94 Intersect N. and S. line, 5 lks. N. of the cor. of secs. 28, 29, 32 and 33.
Thence I run
N. 89° 58' W., on a true line, bet. secs. 29 and 32.
Over rolling land, through scattering undergrowth.
Desc. 20 ft. to
5.10 Center of wash, 70 lks. wide, course SW. Asc. 50 ft. to
11.90 Desc. 40 ft. to
14.80 Asc. 50 ft. to
19.75 Desc. 35 ft. to
33.70 Center of wash, 70 lks. wide, course SW. Road in wash, brs. NE. and SW. to Frandonia. Thence over gently rolling land.
39.97 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for 1/4 sec. cor., marked on brass cap

1916 on S. rim;
1/4 S29 in N. and
S32 in S. half;

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.
Asc. 65 ft. to
43.45 Desc. 15 ft. to
44.85 Asc. 30 ft. to
47.15 Desc. to
68.80 Wash, 15 lks. wide, course SW. Asc. to
79.94 The cor. of secs. 29, 30, 31 and 32.
Land, rolling.
Soil, rocky; 4th rate.
No timber.
Undergrowth, greasewood, ocotillo and cacti.

Mar. 6, 1916.

40.00 * Mar. 4, 1916.
West on a random line, bet. secs. 30 and 31.
Set temp. 1/4 sec. cor.
78.03 Intersect W. bdy. of Tp., 2 lks. S. of 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° 59' E., on a true line, bet. secs. 30 and 31.
Over rolling land, through scattering undergrowth.
Desc. to
3.00 Wash, 15 lks. wide, course SW. Asc. 45 ft. to
14.60 Desc. 25 ft. to
28.50 Wash, 15 lks. wide, course SW. Asc. 170 ft.
38.03 Set an iron post, 3 ft. long, 1 in. diam., on bed rock,

12. Subdivision of Fractional T. 16 $\frac{1}{2}$ N., R. 19 W.

Chains.	
<p>65.20 73.00 78.03</p>	<p>28 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. Top of asc. Desc. 75 ft. to Asc. 55 ft. to The cor. of secs. 29, 30, 31 and 32. Land, rolling. Soil, stony; 4th rate. No timber. Undergrowth, greasewood.</p>
<p>40.00 50.00 53.20 62.20 80.00</p>	<p>Mar. 4, 1916.</p> <hr/> <p>Mar. 6, 1916. N.0° 3' W., bet. secs. 29 and 30. Over rolling land, through scattering undergrowth. Set an iron post, 3 ft. long, 1 in. diam., on bed rock, 28 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. Desc. 50 ft. to Wash, 15 lks. wide, course SW. Asc. 120 ft. to Thence over gently rolling land. Set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the ground, 22 ins. in a mound of stone, for cor. of secs. 19, 20, 29 and 30, marked on brass cap 1916 on S. rim; T16$\frac{1}{2}$N R19W 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 desert. Soil, rocky; 4th rate. No timber. Undergrowth, greasewood. Mar. 6, 1916: At this cor., I set off 5° 32$\frac{1}{2}$' S. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 48' N.</p>
<p>40.00 80.07 13.45 24.57 30.35 40.03$\frac{1}{2}$</p>	<p>S.89° 58' E., on a random line, bet. secs. 20 and 29. Set temp. $\frac{1}{4}$ sec. cor. Intersect N. and S. line, 5 lks. S. of the cor. of secs. 20, 21, 28 and 29. Thence I run West on a true line, bet. secs. 20 and 29. Over hilly and broken land, through scattering undergrowth. Asc. 55 ft. to Desc. 95 ft. to Center of wash, 60 lks. wide, course SW. Road, in wash, brs. NE. and SW. to Franconia. Asc. 70 ft. to Hill, brs. NW. and SE. Desc. 190 ft. 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; $\frac{1}{4}$S20 in N. and S29 in S. half;</p>

Subdivision of Fractional T. 16 1/2 N., R. 19 W. 13.

Chains.

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,
N. of cor.

45.75 Wash, 40 lks. wide, course SW. Asc. 180 ft. to
55.30 Hill, brs. N. and S. Desc. 175 ft. to
68.25 Wash, course SW. Asc. to
80.07 The cor. of secs. 19, 20, 29 and 30.
Land, hilly and broken.
Soil, rocky; 4th rate.
No timber.
Undergrowth, greasewood.

Mar. 6, 1916.

Mar. 4, 1916.
N. 89° 59' W., on a random line, bet. secs. 19 and 30.
40.00 Set temp. 1/4 sec. cor.
78.00 Intersect W. bdy. of Tp., 4 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
S. 89° 57' E., on a true line, bet. secs. 19 and 30.
Over rolling land, through scattering undergrowth.
Asc. 15 ft. to
2.00 Desc. to
9.60 Wash, 15 lks. wide, course S. Asc. 110 ft. to
23.30 Thence over gently rolling land.
38.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
ground, for 1/4 sec. cor., marked on brass cap
1916 on S. rim;
1/4 S19 in N. and
S30 in S. half;
and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,
N. of cor.

53.30 Enter wash, 15 lks. wide, course SW.
57.00 Leave wash, course W. Comes from NE.
76.00 Wash, 10 lks. wide, course SW.
78.00 The cor. of secs. 19, 20, 29 and 30.
Land, rolling.
Soil, 3rd rate.
No timber.
Undergrowth, greasewood.

Mar. 4, 1916.

Mar. 6, 1916.
N. 0° 3' W., on a true line, bet. secs. 19 and 20.
Over hilly land, through scattering undergrowth.
Desc. to
2.00 Wash, 10 lks. wide, course SW. Asc. 410 ft. to
25.45 Hill, brs. NE. and SW. Desc. 90 ft. to
35.50 Gulch, course SW. Asc. 230 ft.
40.00 Set an iron post, 3 ft. long, 1 in. diam., 16 ins. in the
ground, in a mound of stone, for 1/4 sec. cor., marked on
brass cap
1916 on S. rim;
1/4 S19 in W. and
S20 in E. half;
and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,
W. of cor.

49.30 Hill, brs. E. and W. Desc. 300 ft. to
83.88 Intersect Fourth Standard Parallel North, 6.13 chs. W. of
the standard cor. of secs. 34 and 35, T. 17 N., R. 19
W., which is a malpais stone, 6 X 6 X 12 ins., above
ground, marked and witnessed as described by the Survey-
or-General.
At the point of intersection, set an iron post, 3 ft. long,
2 ins. diam., 16 ins. in the ground, 12 ins. in a mound
of stone, for closing cor. of secs. 19 and 20

14. Subdivision of Fractional T. 16 $\frac{1}{2}$ N., R. 19 W.

Chains.

marked on brass cap
 1916 on S. rim;
 CC S. of center;
 S34 in N. half;
 R19W S20 in SE. and
 T16 $\frac{1}{2}$ N S19 in SW. quadrant;
 and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
 S. of cor.
 Land, hilly.
 Soil, rocky; 4th rate.
 No timber.
 Undergrowth, greasewood.

Mar. 6, 1916.
 A. S.

GENERAL DESCRIPTION.

This fractional township lies in the foothills of the southern extremity of the Black Mountains, and on the rolling land at the foot of the mountain range. The drainage is southerly. The land is rocky, 4th rate. Vegetation consists of greasewood and palo verde undergrowth. There is no water, nor are there any settlers in the township. The main line of the Atchison, Topeka and Santa Fe R. R. traverses the SE. cor. of the township.

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

FINAL OATH OF UNITED STATES SURVEYOR.

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 _____ Fractional Township 16 1/2 North, Range 19 West of the Gila and Salt River Base and Meridian in the State of Arizona.

executed by Albert Smith Jr., U.S. Surveyor & Ray D. Armstrong, U.S. Transitman under 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.

Frank A. Frost
Surveyor General of Arizona.

~~I certify that the foregoing transcript of the field notes of the above described surveys in Book "F" Group 42 _____, has been correctly copied from the original notes on file in this office.~~