4-679

MAL 5- 1911

Subdivisions

BCCK 2950

FIELD NOTES

OF THE SURVEY OF THE

TOWNSHIP 15 NORTH RANGE 19 Of the Gila and Salt River Base and In the State of Arizona EXECUTED BY	WEST
Of the Gila and Salt River Base and In the State of Arizona	
In the State ofArizona	
·	
Albert Smith Jr., U.S.Su	rveyor
and and	·
Deane J.Wolff and Ray D. Armstrong, U. S.	Transitm a n
In the capacity of U.S. Surveyor, under instructions	lated December 28 ,1914,
issued by the United States Surveyor General to	
Group No. 42 , which were approved by the Com	
Office, January 22 , 1915	
Survey commenced February 10	•
Survey completed February 25	, 1916

Book "R"

Group 42 Arizona

BOOK 2950

(Subdivisions)

INDEX DIAGRAM.

	Tow	nship	15	Noi	rth		Range	3 1	.9 \"e	st	1	
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					+			CANAL PROPERTY.			,	
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Township Exteriors. Notes in Book "A"

Subdivision lines surveyed under this Group.

Jese Million and Jab

Chains. Survey commenced Feb. 10, 1916, and executed jointly by Albert Smith, Jr., U. S. Surveyor, and D. J. Wolff and Ray D. Armstrong, U. S. Transitmen, with Young and Sons' light mountain transits Nos. 8583 and 8396, with Smith solar attachments. Transit No. 8583 was used by Albert Smith, Jr., U. S. Surveyor. Transit No. 8396 was used by D. H. Wolff, and Ray D. Armstrong, U. S. Transitmen. For description of instruments and certificate of approval, see subdivision of T.13N,R.19W.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., D. J. W., and R. D. A. refer to Albert Smith, Jr., U. S. Surveyor, and D. J. Wolff and Ray D. Armstrong, U. S. Transitmen, respectively. Feb. 18, 1916: A. S. At 8 hrs. 0 m., a.m., 8 hrs. 0 m., a.m., l.m.t., I set off 34° $35\frac{1}{2}$ ' N. on the lat. arc; ll° 54' 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 a stone, established by me, as described in Book "A". Thence I run N.0° 1' W., bet. secs. 35 and 36. Over mountainous land, through scattering undergrowth. Asc. 445 ft., over broken W. slope.

Arrastre Wells br. S.124° E.

Spur, slopes NW. 40 chs. Desc. 105 ft. to

Head of gulch, course W. Asc. 40 ft. to

Spur, slopes NW. From this point, top of rocky butte ors.

SE. 10 chs. dist. Desc. N. slope, 210 ft. to

Point for 4 sec. cor. falls in gulch, course NW. Asc.

30 ft. to. 8.48 24.00 30**.8**5 **32.2**0 40.00 Impracticable to set an iron post, at this point. Set a granite stone, 18 X 12 X 6 ins., 16 ins. in the ground, for witness cor. to \(\frac{1}{4} \) sec. cor., marked \(\frac{1}{4} \) on N. face; and raise a mound of stone, 2 ft. base, 1\(\frac{1}{2} \) ft. high, W. of cor.

Continue along broken W. slope to Spur, extends 25 chs. NW. Desc. 805 ft. to 42.10 **4**9 • 80 Impracticable to set an iron post at this point. Set a granite stone, 12 X 8 X 18 ins., 16 ins. in the ground, for cor. of secs. 25, 26, 35 and 36, marked with a notch on S. and E. edges; and raise a mound of stone, 2 ft. base, 1 ft. high, W. of cor. 80.00 Land, mountainous. Soil, granite and malpais rock; 4th rate. No timber. Undergrowth, greasewood, palo verde, ocotillo and cacti. Feb. 18, 1916: The sky was overcast at noon, making an observation for lat. impossible. Feb. 18, 1916. Feb. 19, 1916: At 8 hrs. 7 m., a.m., l.m.t., I set off 34° $30\frac{1}{2}$ ' N. on the lat. arc: 11° 33' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 25, 26, 35 and 36.

Thence I run N.89° 58' E., on a random line, bet. secs. 25 and 36.

Set temp. \(\frac{1}{4}\) sec. cor.

Intersect E. bdy. of Tp., ll lks. S. of the cor. of secs.
25, 30, 31 and 36, which is a stone, established by
J. M. McKinney, Jr., U. S. Transitman, as described in
Book "A". Thence I run S.89° 53' W., on a true line, bet. secs. 25 and 36. Over mountainous land, through dense undergrowth. Desc. 35 ft. to Gulch, 30 lks. wide, course NW. Asc. 40 ft. to Spur, slopes N. Desc. 20 ft. to Gulch, 30 lks. wide, course N. Asc. 135 ft. to Spur, extends 10 chs. N. Desc. 95 ft. to

40.00 79.98

> 5.55 ·50

13.00 27.20

```
Chains.
                                             Subdivison of T. 15 N., R. 19 W.
                       Gulch, 10 lks. wide, course N. Asc. 70 ft. to Impracticable to set an iron post at this point. Set a granite stone, 18 X 10 X 8 ins., on solid rock, in a mound of stone, for \(\frac{1}{4}\) sec. cor., marked \(\frac{1}{4}\) on N. face; and raise a mound of stone, 2 ft. base, \(\frac{1}{2}\) ft. high,
       32.20
       39.99
                               N. of cor.
                        Desc. 70 ft. to
                       Gulch, course NE. Asc. 235 ft. to
Spur, slopes NE. Desc. 25 ft. to
Head of gulch, course N. Asc. 20 ft. to
Spur, slopes NW. Desc. 65 ft. to
Gulch, 30 lks. wide, course NW. Asc. 25 ft. to
       51.00
       62.20
       65.20
       72.50
       76.00
                       The cor. of secs. 25, 26, 35 and 36.
       79.98
                       Land, mountainous.
                       Soil, rocky; 4th rate.
                       No timber.
                       Undergrowth, greasewood, ocotillo and sagebrush.
                       N.0° 1' W., bet. secs. 25 and 26. Over mountainous land, through dense undergrowth.
                       Desc.70 ft. to
         4.90
9.80
                        Gulch, 20 lks. wide, course NW.
                                                                                                   Asc. 65 ft. to
                        Spur, slopes NW. Desc. 365 ft. to
                       Spur, slopes NW. Desc. 305 ft. to
Gulch, 50 lks. wide, course NE. Leave mountainous land,
brs. NE. and SW. Thence over rolling land.

Impracticable to set an iron post, at this point. Set a
malpais stone, 15 X 12 X 8 ins., 12 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.

Gulch, 60 lks. wide, 50 ft. deep, course NE.

Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the
ground, for cor. of secs. 23, 24, 25 and 26, marked on
brass cap
       33.00
       40.00
       58.00
       80.00
                              brass cap
                                                             1916 on S. rim;
                                                             T15N R19W 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 and mountainous. Soil, rocks andgravel; 3rd and 4th rate.
                        No timber.
                        Undergrowth, greasewood, palo verde, ocotillo and cacti. Feb. 19, 1916: At this cor., I set off 11° 31' S. on the decl.arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 37½ N.
                                                                                                                          Feb. 19. 1916.
                        Feb. 22, 1916: At 8 hrs. 30 m., a.m., l.m.t., I set off 34^{\circ} 37\frac{1}{2}! N. on the lat. arc; 10° 29! S. on the decl.
                               arc; and determine a meridian with the solar at the
                       cor. of secs. 23,24, 25 and 26.

Thence I run
N.89° 53' E., on a random line, bet. secs. 24 and 25.

Set temp. ½ sec. cor.

Intersect E. bdy. of Tp., 2 lks. S. of the cor. of secs.
19, 24, 25 and 30, which is a stone, established by
J. M. McKinney, Jr., U. S. Transitman, as described in
       40.00
       79.71
                              Book "A".
                        Thence I run
                       S.80° 52' W., on a true line, bet. secs. 24 and 25.

Over rolling and hilly land, through scattering undergrowth.

Desc. 45 ft. to
         4.50
                      Wash, 20 lks. wide, 1 ft. deep, course NW. Asc. 50 ft. to
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Subdivision of T. 15 N. R. 19 W.
Chains.
10.95
           Desc. 65 ft. to
           Asc. 40 ft. to
29.80 Thence over rolling land, descending 80 ft. to 39.85 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
29.80
                ground, for ½ sec. cor., marked on brass cap
1916 on S. rim;
                                      \frac{1}{4}S24 in N. and
                                      $25 in S. half;
                and raise a mound of stone, 2 ft. base, l_{2}^{\frac{1}{2}} ft. high,
           N. of cor. Desc. 60 ft. to
45.70
54.70
           Center of wash, 3 chs. wide, 25 ft. deep, course N. Asc.
                30 ft. to
77.70
79.71
           Desc. 10 ft. to
           The cor. of secs. 23, 24 Land, rolling and hilly.
                                              24, 25 and 26.
           Soil, rocky and gravelly; 3rd and 4th rate.
           No timber.
           Undergrowth, greasewood, palo verde, ocotillo and cacti.
           N.0° 1' W., bet. secs. 23 and 24.
           Over rolling land, through scattering 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
40.00
                                      1916 on S. rim;
                \frac{1}{4}S23 in W. and S24 in E. half; and raise a mound of stone, 2 ft. base, l_2^{\frac{1}{2}} ft. high,
                W. of cor.
           Center of wash, 2 chs. wide, 15 ft. deep, course NW. Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, for cor. of secs. 13, 14, 23 and 24, marked on
65.00
00.08
                brass cap
                                      1916 on S. rim;
                                      Tion Rigw in N. half;
                                      S14 in NW.,
                                     S13 in NE.,
S24 in SE. and
S23 in SW. quadrant;
                and raise a mound of stone, 2 ft. base, l^{\frac{1}{2}} ft. high,
                W. of cor.
           Land, rolling desert.
           Soil, gravel; 3rd and 4th rate.
           No timber.
           Undergrowth, greasewood, sagebrush, palo verde, ocotillo and
           N.89° 52' E., on a random line, bet. secs. 13 and 24.

Set temp. \( \frac{1}{4} \) sec. cor.

Intersect E. bdy. of Tp., 14 lks. N. of the cor. of secs.

13,18,19 and 24, which is a stone, established by J. M.

McKinney, Jr., U. S. Transitman, as described in Book
40.00
79.76
           Thence I run S.89° 58' W., on a true line, bet. secs. 13 and 24. Over rolling land, through scattering undergrowth.
           Desc. 90 ft. to
           Asc. 10 ft. to
29.75
31.75
39.88
           Desc. 30 ft. to
           Set an iron post, 3 ft. long, 1 in.diam., 16 ins. in the ground, 16 ins. in a mound of stone, for \( \frac{1}{4} \) sec. cor.,
                marked on brass cap
                                      1916 on S. rim;
                \frac{1}{4}Sl3 in N. and S24 in S. half; and raise a mound of stone, 2 ft. base, 1\frac{1}{2} ft. high,
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Subdivision of T. 15 N., R. 19 W.
Chains.
                 N. of cor.
            Desc. to
            Center of wash, 2 chs. wide, 30 ft. deep, course NW.
 42.90
                 10 ft, to
            Desc. 50 ft. to Wash, 25 lks. wide, 30 ft. deep, course NW. Asc. to Desc. 10 ft. to
 45.75
67.20
68.50
69.75
74.75
            Asc. 30 ft. to
            Desc. 35 ft. to
            The cor. of secs. 13, 14, 23 and 24.
 79.76
            Land, rolling desert.
Soil, gravel; 3rd and 4th rate.
            No timber.
            Undergrowth, greasewood, palo verde, ocotillo, sagebrush
                 and cacti
                                    At this cor., I set off 10^{\circ} 26\frac{1}{2}'S. on the
            Feb. 22, 1916:
                 decl. arc; and at apparent noon, I observe the sun on
                 the meridian; the resulting lat. is 34° 38' N.
                                                                                Feb. 22, 1916.
            Feb. 23, 1916: R. D. A.
            At 9 hrs. 4 m., a.m., l.m.t., I set off 34° 38½' N. on the lat. arc; 10° 6½' S. on the decl. arc; and determine a meridian with the solar at the 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.
Set an iron post, 3 ft. long, 1 in. diam., 22 ins. in the
 40.00
                 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, \( \frac{1}{2} \) ft. high,
                 W. of cor.
            Center of wash, 1.60 chs. wide, 10 ft. deep, course NW. 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
 65.00
 80.00
                 brass cap
                                      1916 on S. rim;
                                      Ti5N R19W 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, gravelly; 3rd rate.
             No timber.
             Undergrowth, greasewood, palo verde, ocotillo and cacti.
             N.89° 58' E., on a random line, bet. secs. 12 and 13.
            Set temp. \(\frac{1}{4}\) sec. cor.

Intersect E. bdy. of Tp., 21 lks. N. of the cor. of secs.

7, 12, 13 and 18, which is a stone, established by J. M. McKinney, Jr., U. S. Transitman, as described in Book
  40.00
  79 • 88
                  "AM".
             Thence I run
             N.89° 53' W., on a true line, bet. secs. 12 and 13. Over rolling land, through dense undergrowth.
             Road, brs. NW. to Franconia, and SE. to Arrastre Wells.
  25.00
            Wash, 25 lks. wide, 30 ft. deep, 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
  36.90
  39.94
                                       1916 on S. rim:
                                       \frac{1}{4}S12 in N. and
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S13 in S. half;

ROOK 2950

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Subdivision of T. 15 N., R. 19 W.
Chains.
                   and raise a mound of stone, 2 ft. base, 1\frac{1}{2} ft. high.
                   N. of cor.
              The cor. of secs. 11, 12, 13 and 14.
 79.88
              Land, rolling desert.
              Soil, gravelly; 3rd rate.
              No timber.
              Undergrowth, greasewood, palo verde, ocotillo and cacti.
              N.O° 1' W., bet. secs. 11 and 12.
             Over rolling land, through dense undergrowth.

Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for 4 sec. cor., marked on brass cap

1916 on S. rim;
40.00
                                           \frac{1}{4}Sll in \mathbb{Z}. and
                   S12 in E. half; and raise a mound of stone, 2 ft. base, l\frac{1}{2} ft. high,
                   W. of cor.
             Set an iron post, 3 ft. long, 2 ins. diam., 26 ins. in the ground, for cor. of secs. 1, 2, 11 and 12, marked on
80.00
                   brass can
                                           1916 on S. rim;
T15N R19W in N. half;
                                           S2 in NW.,
                                           Sl in NE.,
                                           S12 in SE. and
                                           Sll in SW. quadrant;
                   and raise a mound of stone. 2 ft. base. 1 ft. high.
                   W. of cor.
             Land, rolling desert.
             Soil, gravel; 3rd rate.
             No timber.
             Undergrowth, greasewood, palo verde, ocotillo and cacti. Feb. 23, 1916: At this cor., I set off 10° 4\frac{1}{2}'S. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 40'N.
             S.89° 53' E., on a random line, bet. secs. 1 and 12.

Set temp. \( \frac{1}{4} \) sec. cor.

Intersect R. bdy. of Tp., 5 lks. N. of the cor. of secs.

1, 6, 7 and 12, which is a stone, established by J. M

McKinney, Jr., U. S. Transitman, as described in Book
40.00
79.90
                   "A".
             Thence I run
            N.89° 51' W., on a true line, bet. secs. 1 and 12.

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;
39 • 95
                  \frac{1}{4}Sl in N. and Sl2 in S. half; and raise a mound of stone, 2 ft. base, l_2^{\frac{1}{2}} ft. high,
                  N. of cor.
            Road, brs. N. to Franconia, and S. to Arrastre Wells. Box canyon, 50 lks. wide, 100 ft. deep, course NW. The cor. of secs. 1, 2, 11 and 12.
51.00
70.40
79.90
             Land, rolling desert.
             Soil, gravelly; 3rd rate.
             No timber.
             Undergrowth, greasewood, palo verde, ocotillo and cacti.
            N.0° l' W., on a random line, bet. secs. 1 and 2. Set temp. \frac{1}{4} sec. cor. Intersect N. bdy. of Tp., 18 lks. E. of the cor. of secs.
40.00
79.60
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6.

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Subdivision of T. 15 N., R. 19 W.
Chains.
                        1, 2, 35 and 36, which is an iron post, established by me, as described in Book "A".
                  Thence I run
                 S.0° 9' E., on a true line, bet. secs. 1 and 2.

Over rolling land, through scattering 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
 39.60
                                                      1916 on S. rim;
                                                      \frac{1}{4}S2 in W. and
                                                      Sl in E. half;
                         and raise a mound of stone, 2 ft. base, 1\frac{1}{2} ft. high,
                        W. of cor.
                 Box canyon, 30 lks. wide, 50 ft. deep, course NW. The cor. of secs. 1, 2, 11 and 12.
                 Land, rolling desert.
                  Soil, gravel; 3rd rate.
                 No timber.
                  Undergrowth, greasewood, palo verde, ocotillo and cacti.
                                                                                                                        R. D. A.
                                                                                                                  Feb. 23, 1916.
                 Feb. 16, 1916: At 8 hrs. 10 m., a.m., l.m.t., I set off 34° 35½' N. on the lat. arc; 12° 36' 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 Rp., which is a stone, established by me, as described
                         in Book "A".
                  Thence I run
N.O° 1' W., bet. secs. 34 and 35.
Over mountainous land, through scattering undergrowth.
                  Desc. 225 ft. to
                 Desc. 225 ft. to
Gulch, 10 lks. wide, course NW. Asc. 45 ft. to
Spur, extends 40 chs. NW. Desc. 560 ft.
Impracticable to set an iron post at this point. Set a
granite stone, 16 X 6 X 4 ins., 8 ins. in the ground,
in a moundof stone, for \(\frac{1}{4}\) sec. cor., marked \(\frac{1}{2}\) on W.
face; and raise a mound of stone, 2 ft. base, \(\frac{1}{2}\) ft.
high, W. of cor.
Continue descent to
 8.70
18.20
  40.00
                 Gulch, 25 lks. wide, course NW. Asc. 110 ft. to Spur, extends 8 chs. W. Desc. 90 ft. to Asc. 35 ft. to
  65.45
 71.50
75.00
80.00
                 Impracticable to set an iron post at this point. Set a granite stone, 12 X 10 X 12 ins., on ledge rock, in a mound of stone, for cor. of secs. 26, 27, 34 and 35, marked with 2 notches on E. and 1 notch on S. edge;
                        and raise a mound of stone, 2 ft. base, 1\frac{1}{2} ft. high,
                        W. of cor.
                 Land, mountainous. Soil, rocky; 4th rate.
                  No timber.
                 Undergrowth, greasewood, ocotillo, sagebrush and cacti.
Feb. 16, 1916: At this cor., I set off 12° 33½! S. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 36½! N.
                                                                                                                 Féb. 16, 1916.
                 Feb. 18, 1916. N.89° 58' E., on a random line, bet. secs. 26 and 35. Set temp. \frac{1}{4} sec. cor. Intersect N. and S. line, at the cor. of secs. 25, 26, 35
  40.00
  80.00
                  and 36. Thence I run
                  S.89° 58' W., on a true line, bet. secs. 26 and 35.
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N 1980

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Subdivision of T. 15 N., R. 19 W.
Chains.
             Over mountainous land, through scattering undergrowth.
            Desc. 30 ft. to
            Asc. 55 ft. to
 11.00
 15.90
23.55
33.80
            Spur, slopes N. Desc. 155 ft. Gulch, 20 lks. wide, course N.
                                        Desc. 155 ft. to
                                                               Asc. 130 ft. to
            Spur, slopes N. Desc. 205 ft.
            Impracticable to set an iron post at this point.
 40.00
                 granite stone, 18 X 12 X 10 ins., 16 ins. in the ground, for \frac{1}{4} sec. cor., marked \frac{1}{4} on N. face; and raise a mound of stone, 2 ft. base, 1\frac{1}{2} ft. high, N. of cor.
            Wash, 60 lks. wide, course N. Asc. 160 ft. to Spur, slopes N. Desc. 110 ft. to
 47.90
 55.90
61.90
72.60
            Galch, 10 lks. wide, course N. Asc. 95 ft. to
            Spur, slopes NW. Desc. 20 ft. to
Asc. 30 ft. to
 75.05
79.30
80.00
            Spur, slopes N. Desc. 10 ft. to The cor. of secs. 26, 27, 34 and 35.
            Land, mountainous.
            Soil, rocky; 4th rate.
            No timber.
            Undergrowth, greasewood, palo verde, ocotillo and cacti.
                                                                                 Feb. 18,1916.
           Feb. 19, 1916.
N.O° 1' W., bet. secs. 26 and 27.
Over mountainous land, through scattering undergrowth.
            Desc. 210 ft. to
            Center of wash, 2.50 chs. wide, course NE.
19.60
                                                                                    Thence over
           hilly land. Asc. 20 ft. to Desc. 20 ft. to
28.20
29.55
34.50
           Asc. 40 ft. to
           Desc. 170 ft.
           Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for \( \frac{1}{2} \) sec. cor., marked on brass cap

1916 on S. rim;
\( \frac{1}{4} \) S27 in W. and
40.00
                                      $26 in E. half;
                and raise a mound of stone, 2 ft. base, 1\frac{1}{2} ft. high.
                W. of cor.
           Asc. 20 ft. to
49.90
51.90
           Desc. 75 ft. to Asc. 25 ft. to
64.80
           Thence over rolling land.
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
75.00
80.00
                brass cap
                                     1916 on S. rim;
                                     T15N 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, l^{\frac{1}{2}} ft. high,
                W. of cor.
           Land, rolling, hilly and mountainous. Soil, sandy and rocky; 4th rate.
           No timber.
           Undergrowth, greasewood, palo verde and cacti.
           N.89° 58' E., on a random line, bet. secs. 23 and 26.

Set temp. \(\frac{1}{4}\) sec. cor.

Intersect N. and S. line, 14 lks. N. of the cor. of secs.

23, 24, 25 and 26.
40.00
79 • 93
Thence I run
N.89° 56' W., on a true line, bet. secs. 23 and 26.
Over rolling land, through scattering undergrowth.

39.96½ Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ½ sec. cor., marked on brass cap
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BOCK 2950

```
Subdivision of T. 15 N. A. 19 W.
Chains.
                               1916 on S. rim;
                               \frac{1}{4}S23 in N. and
                               $26 in S. half;
              and raise a mound of stone, 2 ft. base, 1 ft. high,
         N. of cor.
Wash, 30 lks. wide, 50 ft. deep, course NW.
Desc. 60 ft. to
45.90
55.00
61.85
          Gulch, 60 lks. wide, 100 ft. deep, course NW. Heads 20 chs. SE. Asc. 85 ft. to
68.55
73.30
79.93
          Desc. 15 ft. to
          Gulch, 60 lks wide, 100 ft. deep, course N. Asc. to The cor. of secs. 22, 23, 26 and 27.
          Land, rolling desert.
          Soil, gravel; 3rd and 4th rate.
          No timber.
          Undergrowth, greasewood, palo verde, ocotillo, sagebrush
              and cacti.
                                                                 Feb. 19, 1916.
          Feb. 22, 1916.
N.O° 1' W., bet. secs. 22 and 23.
          Over rolling land, through scattering undergrowth.
          Desc. 115 ft. to
          Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 40.00
              ground, for \frac{1}{2} sec. cor., marked on brass cap
                               1916 on S. rim;
                                \frac{1}{4}S22 in W. and
              $23 in E. half; and raise a mound of stone, 2 ft. base, 1\frac{1}{2} ft. high,
              W. of cor.
          Desc. 95 ft. to
          Set an iron post, 3 ft. long, 2 ins. diam., 26 ins. in the ground, for cor. of secs. 14, 15, 22 and 23, marked on
 80.00
              brass cap
                               1916 on S. rim;
                               TI5N R19W in N. half:
                               S15 in NW.,
                               S14 in NE:,
S23 in SE. and
S22 in SW. quadrant;
                            a mound of stone, 2 ft. base, l_{2} ft. high,
              and raise
              W. of cor.
          Land, rolling desert.
          Soil, gravel; 4th rate.
          No timber.
          Undergrowth, greasewood, palo verde and cacti.
          S.89° 56' E., on a random line, bet. secs. 14 and 23. Set temp. \frac{1}{4} sec. cor.
 40.00
          Intersect N. and S. line, at the cor. of secs. 13, 14,
 79.85
              23 and 24.
          Thence I run
          N.89° 56' W., on a true line, bet. secs. 14 and 23. Over rolling land, through scattering undergrowth.
          Desc. 25 ft. to Center of wash, 1 ch. wide, course NW. Asc. 85 ft. to
 10.00
          Desc. 55 ft. to Asc. 70 ft.
 29.99
 34.80
          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
                               $23 in S. half;
              and raise a mound of stone, 2 ft. base, 1\frac{1}{2} ft. high,
              N. of cor.
          Thence over gently rolling land.
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Subdivision of T. 15 N. R. 19 W.
Chains.
            Desc. 45 ft. to Asc. 30 ft. to Desc. 15 ft. to Asc. 20 ft. to
 50.00
 54.95
 56.95
 59.90
            Desc. 50 ft. to Asc. 55 ft. to Desc. to
 64.75
68.65
            Wash, 50 lks. wide, course NW. Asc. to
 78.70
 79.85
            The cor. of secs. 14, 15, 22 and 23.
            Land, rolling desert.
            Soil, gravel; 4th rate.
            No timber.
            Undergrowth, greasewood, palo verde, ocotillo and cacti.
                                                                                   Feb. 22, 1916.
            Feb. 23, 1916.
N.O° 1' W., bet. secs. 14 and 15.
            Over rolling land, through dense undergrowth.

Center of wash, 60 lks. 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

1916 on S. rim;
 40.00
                 \frac{1}{2}S15 in W. and \frac{1}{2}S14 in E. half; and raise a mound of stone, 2 ft. base, 1\frac{1}{2} ft. high,
                 W. of cor.
 78.00
            Center of wash, 2 chs. wide, course NW.
            Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 10, 11, 14 and 15, marked on
 80.00
                 brass cap
                                       1916 on S. rim:
                                       T15N R19W in N. half:
                                       SlO in NW.,
Sll in NE.,
Sl4 in SE. and
Sl5 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 cacti.
            S.89° 56' E., on a random line, bet. secs. 11 and 14. Set temp. \( \frac{1}{4} \) sec. cor.
Intersect N. and S. line, 7 lks. S. of the cor. of secs.
 40.00
 79.94
            11, 12, 13 and 14. Thence I run
            N.89° 59' W., on a true line, bet. secs. ll and 14.

Over rolling land, through dense undergrowth.

Center of wash, 1.50 chs. wide, 20 ft. deep, course NW.

Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for \( \frac{1}{2} \) sec. cor., marked on brass cap
 14.95
39.97
                                       1916 on S. rim;
                                       \frac{1}{4}Sll in N. and
                 S14 in S. half; and raise a mound of stone, 2 ft. base, l_{2}^{\frac{1}{2}} ft. high,
                 N. of cor.
79 \cdot 94 |The cor. of secs. 10, 11, 14 and 15.
            Land, rolling desert.
            Soil, gravel; 4th rate.
            No timber.
            Undergrowth, greasewood, ocotillo, palo verde and cacti.
                                                                                        A. S.
                                                                                  Feb. 23, 1916.
```

10.

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Subdivision of T. 15 N., R. 19 W.
Chains.
             Feb. 24, 1916: R. D. A.
             At 8 hrs. 0 m., a.m., 1.m.t., I set off 34° 39' N. on the lat. arc; 9° 45' 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
             N.O° 1' W., bet. secs. 10 and 11.
             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;
 40.00
                                          ₹S10 in W∙ and
                   Sll in E. half; and raise a mound of stone, 2 ft. base, l\frac{1}{2} ft. high,
                   W. of cor.
             Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in a ground, for cor. of secs. 2, 3, 10 and 11, marked on
 80.00
                                                                                          24 ins. in the
                   brass cap
                                          1916 on S. rim;
                                          T15N R19W in N. half;
                                          S3 in NW.,
S2 in NE.,
                                          Sll in SE. and
                                          S10 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, gravelly; 3rd rate.
             No timber.
             Undergrowth, greasewood, palo verde, ocotillo and cacti.
                                                                                         Feb. 24, 1916.
             Feb. 23, 1916.
S.89° 59' E., on a random line, bet. secs. 2 and 11.
Set temp. ½ sec. cor.
Intersect N. and S. line, 11 lks. S. of the cor. of secs.
 40.00
 79.86
             1, 2, 11 and 12. Thence I run
             S.89° 56' W., on a true line, bet. secs. 2 and 11.

Over rolling land, through dense undergrowth.

Set angranite stone, 14 X 8 X 8 ins., 10 ins. in the ground,
 39 • 93
             for \( \frac{1}{4} \) sec. cor., marked \( \frac{1}{4} \) on N. face; and raise a mound of stone, 2 ft. base, \( \frac{1}{2} \) ft. high, N. of cor.

Center of wash, 3 chs. wide, 25 ft. deep, course NW.

The cor. of secs. 2, 3, 10 and 11.
 50.00
 79.86
             Land, rolling desert.
             Soil, gravelly; 3rd rate.
             No timber.
               Undergrowth, greasewood, palo verde, ocotillo and cacti. Feb. 23, 1916.
             Feb. 24, 1916.
N.O° 1' W., on a random line, bet. secs. 2 and 3.
Set temp. \(\frac{1}{4}\) sec. cor.

23 lks. E. of the cor.
 40.00
              Intersect N. bdy. of Tp., 23 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".
 79.70
              Thence I run
             S.0° 11' E., on a true line, bet. secs. 2 and 3. Over rolling land, through dense undergrowth. Enter wash, course NW. Comes from S. Leave wash, course N. Comes from SE.
     .10
             Leave wash, course N. Comes from SE. S et an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
   6.10
 39.70
                   ground, for \(\frac{1}{4}\) sec. cor., marked on brass cap 1916 on S. rim;
                                          \frac{1}{4}S3 in W. and S2 in E. half;
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and raise a mound of stone, 2 ft. base, $l^{\frac{1}{2}}$ ft. high,

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FOOR
                                                                                                                                      29E0
               Subdivision of T. 15 N., R. 19 W.
 Chains
               W. of cor.
               Wash, 50 lks. wide, course NW. The cor. of secs. 2, 3, 10 and 11.
 48.20
 79.70
               Land, rolling desert.
Soil, gravel; 3rd rate.
               No timber.
               Undergrowth, greasewood, ocotillo and palo verde.
                                                                                                     Feb. 24, 1916.
              Feb. 16, 1916: At 9 hrs. 0 m., a.m., l.m.t., I set off 34° 35½' N. on the lat. arc; 12° 36' 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 a stone, established by A. S., as described in Book
                     "A".
               Thence I run
               N.0° 2' W., bet. secs. 3 3 and 34. Over mountainous land, through dense undergrowth.
               Desc. to
 23.00
               Gulch, course NE. Asc.
               Set a granite stone, 18 X 13 X 8 ins., 15 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. Spur, slopes NE. Desc. 235 ft. to
 46.00
 41.70
              Gulch, course N.30° E. Asc. to Desc. 180 ft. to
51.00
53.90
65.60
              Asc. 55 ft. to
Spur, slopes NNE. Desc. on spur, 70 ft. to
Set a granite stone, 18 X 12 X 10 ins., 8 ins. in the ground,
69.00
80.00
                     on bed rock, in a mound of stone, for cor. of secs. 27, 28, 33 and 34, marked with 3 notches on E. and 1 notch on S. edge; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
              Land, mountainous.
               Soil, rocky; 4th rate.
              No timber.
              Undergrowth, greasewood, palo verde, ocotillo and cacti. Feb. 16, 1916: At this cor., I set off 12° 33½' S. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 36' N.
                                                                                                     Feb. 16, 1916.
                                                                                                           R. D. A.
              Feb. 16, 1916; A. S. N.89° 58' E., on a random line, bet. secs. 27 and 34. Set temp. \(\frac{1}{4}\) sec. cor. Intersect N. and S. line, 16 lks. N. of the cor. of secs.
40.00
79.92
              26, 27, 34 and 35.
Thence I run
N.89° 55' W., on a true line, bet. secs. 27 and 34.
               Over mountainous land, through dense undergrowth.
              Desc. 100 ft. to
              Gulch, 50 lks. wide, course N. Asc. 115 ft. to Desc. 10 ft. to Asc. 105 ft. to
  5.20
13.65
15.15
25.00
28.75
              Spur, slopes NE. Desc. 40 ft. to
              Enter bed of wash, course NE.
              Leave bed of wash, course NE. Asc. 60 ft.

Set a granite stone, 16 X 6 X 5 ins., 13 ins. in the ground, for ½ sec. cor., marked ½ on N. face; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.

Spur, extends 10 chs. N. Desc. 90 ft. to
29 • 9 6 39 • 9 6
45.00
51.30
62.30
67.60
              Gulch, 20 lks. wide, course N.
                                                                               Asc. 165 ft. to
              Spur, extends 10 chs. N. Desc. 65 ft. to
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Gulch, 15 lks. wide, course N. Asc. 250 ft. to Spur, extends 15 chs. N. Desc. 50 ft. to

76.70

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12.
                                   Subdivision of T. 15 N. R. 19 11.
    Chains.
     79.92
                   The cor. of secs. 27, 28, 33 and 34.
                   Land, mountainous.
                   Soil, rocky; 4th rate.
                   No timber.
                   Undergrowth, greasewood, palo verde, sagebrush and cacti.
                 R. D. A.
N.O° 2' W., bet. secs. 27 and 28.
Over mountainous land, through dense undergrowth.
Desc. N. slope, 395 ft. to
Gulch, 15 lks. wide, course NW. Asc. 20 ft. to
Point of spur, slopes W. 3 chs. Desc. 140 ft. to
Gulch, 1 ch. wide, course NE. Asc. slightly.to
Set an iron post, 3 ft. long, 1 in. diam., 16 ins. in the
ground, on bed rock, 12 ins. in a mound of stone, for

$\frac{1}{2}$ sec. cor., marked on brass cap
     18.50
     20.95
31.60
     40.00
                                                  1916 on S. rim; 

1828 in W. and 

827 in E. half;
                         and raise a mound of stone, 2 ft. base, 1\frac{1}{2} ft. high,
                         W. of cor.
     41.50
54.35
58.70
                  Low hill, brs. NE. and SW. Desc. to Gulch, course NE. Asc. to Thence along top of spur, brs. N. and SW.
                  Leave spur, brs. NE. Desc. 65 ft. to

Set an iron post, 3 ft. long, 2 ins. diam., 19 ins. in the ground, on bed rock, 7 ins. in a mound of stone, for cor. of secs. 21, 22, 27 and 28, marked on brass cap

1916 on S. rim;
     71.70
     80.00
                                                  T15N 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, mountainous.
                   Soil, rocky; 4th rate.
                   No timber.
                   Undergrowth, greasewood, ocotillo and cacti.
                                                                                                           R. D. A.
                                                                                                     Feb. 16, 1916.
                  Feb. 19, 1916: A. S. S. S.89° 55' E., on a true line, bet. secs. 22 and 27. Set temp. \frac{1}{4} sec. cor. Intersect N. and S. line, 11 lks. N. of the cor. of secs.
      40.00
     80.06
                  22, 23, 26 and 27. Thence I run
                  N.89° 50' W., on a true line, bet. secs. 22 and 27.

Over hilly land, through scattering 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.,
     40.03
                        marked on brass cap
                                                  1916 on S. rim;
                                                   \frac{1}{4}S22 in N. and
                                                  $27 in S. half;
                         and raise a mound of stone, 2 ft. base, 1\frac{1}{2} ft. high.
                  N. of cor.
Desc. 55 ft. to
Center of wash, 70 lks. wide, course NE. Asc. 55 ft. to
     46.00
     62.00
      76.96
                   Desc. 15 ft. to
     80.06
                  The cor. of secs. 21, 22, 27 and 28.
                  Land, hilly;
Soil, rocky; 4th rate.
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Subdivision of T. 15 N., R. 19 W.
Chains.
             No timber.
             Undergrowth, greasewood, palo verde and cacti.
                                                                                    Feb. 19, 1916.
            Feb. 17, 1916: R. D. A.
N.0° 2' W., bet. secs. 21 and 22.
Over mountainous Land, through dense undergrowth.
Desc. NW. slope, 125 ft. to
            Wash, 25 lks. wide, course NE Asc. SE. slope, 20 ft. to Desc. 125 ft. to Center of wash, 1 ch. wide, course N.55° W. Leave mountainous land, brs. E. and W. Thence over rolling
 12.15
 17.30
35.30
 39.60
                                                                                Thence over rolling
                 land.
 40.00
            Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
                 ground, for ½ sec. cor., marked on brass cap
1916 on S. rim;
                                         $21 in W. and
                                        $22 in E. half;
                  and raise a mound of stone, 2 ft. base, 1\frac{1}{2} ft. high.
                  W. of cor.
             Desc. 140 ft. to
            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
 80.00
                  brass cap
                                      1916 on S. rim;
T15N R19W 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 and mountainous.
             Soil, rocky; 4th rate.
            No timber.
            Undergrowth, greasewood, palo verde, ocotillo and cacti. Feb. 17, 1916: At this cor., I set off 12° 13' S. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 38½' N.
                                                                                    Feb. 17, 1916.
                                                                                         R. D. A.
            Feb. 23, 1916: A. S. At 8 hrs. 30 m., a.m., l.m.t., I set off 34° 38½' N. on the lat. arc; 10° 7' S. on the decl. arc; and determine a
                  meridian with the solar at the cor. of secs. 15, 16, 21
                  and 22.
             Thence I run
            S.89° 50' E., on a random line, bet. secs. 15 and 22. Set temp. \( \frac{1}{4} \) sec. cor.
 40.00
 79.85
             Intersect N. and S. line, 7 lks. S. of the cor. of secs.
Intersect N. and S. line, (iks. 5. of the col. of secs. 14, 15, 22 and 23.

Thence I run
N.89° 53' W., on a true line, bet. secs. 15 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;
\( \frac{1}{4} \) S15 in N. and
\( \frac{5}{22} \) in S. half:
                                        $22 in S. half;
                  and raise a mound of stone, 2 ft. base, 1\frac{1}{2} ft. high.
                 N. of cor.
            Desc. slightly to
 63.20
            Center of wash, 1 ch. wide, course NW.
            Desc. 45 ft. to
            The cor. of secs. 15, 16, 21 and 22.
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14.
                           Subdivision of T. 15 N. R. 19 W.
     Chains.
                  Land, rolling desert.
                  Soil, gravel; 4th rate.
                  No timber.
                  Undergrowth, greasewood, ocotillo, sagebrush and cacti.
                  N.O° 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 ½ sec. cor., marked on brass cap

1916 on S. rim;
      40.00
                                              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.
                  Center of wash, 1.50 chs. wide, course NW.
Set an iron post, 3 ft. long, 2 ins. diam., 26 ins. in the ground, for cor. of secs. 9, 10, 15 and 16, marked on
      45.00
      80.00
                       brass cap
                                             1916 on S. rim;
                                              Ti5N R19W in N. half;
                                               S9 in NW.,
                                             Slo in NE.,
Slo in SE. and
Slo in SW. quadrant;
                       and raise a mound of stone, 2 ft. base, l^{\frac{1}{2}} ft. high,
                       W. of cor.
                  Land, rolling desert.
                   Soil, gravel; 4th rate.
                  No timber.
                  Undergrowth, greasewood, ocotillo and cacti.
Feb. 23, 1916: At this cor., I set off 10° 4½' S. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 39' N.
                  S.89° 53' E., on a random line, bet. secs. 10 and 15. Set temp. \(\frac{1}{4}\) sec. cor.

Intersect N. and S. line, 21 lks. S. of the cor. of secs.
      40.00
      79.90
                  10, 11, 14 and 15.
Thence I run
S.89° 58' W., on a true line, bet. secs. 10 and 15.
Over rolling land, through dense undergrowth.
                  Desc. to
        5.00
                  Center of wash, 2 chs. wide, course NW. Asc. 70 ft. to
                  Desc. 20 ft. to
Asc. 35 ft. to
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
      19.90
24.90
      39.•95 -
                                              \frac{1}{4}SlO in N. and
                       S15 in S. half; and raise a mound of stone, 2 ft. base, 1\frac{1}{2} ft. high,
                  N. of cor.
Desc. 15 ft. to
      45.00
58.00
                  Asc. 20 ft. to
                  Desc. 40 ft. to
Asc. 30 ft. to
Desc. 20 ft. to
Asc. 25 ft. to
      59.85
67.65
      69.80
                  Desc. 45 ft. to
Asc. 40 ft. to
The cor. of secs. 9, 10, 15 and 16.
      71.35 74.70
      79.90
                  Land, rolling desert.
                  Soil, gravel; 4th rate.
                  No timber.
                  Undergrowth, greasewood, palo verde, ocotillo and cacti.
```

40.00

by me, as described in Book "A".
Thence I run
S.0° 7' E., on a true line, bet. secs. 3 and 4.

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 **39.**68

N.0° 2' W., on a random line, bet. secs. 3 and 4.

Set temp. \(\frac{1}{4} \) sec. cor.

Intersect N. bdy. of Tp., ll lks. E. of the cor. of secs.

3, 4, 33 and 34, which is an iron post, established 79.68

```
Subdivision of T. 15 N . R. 19 W.
Chains.
                                            1916 on S. rim;
                                            \frac{1}{4}S4 in W. and
                                            $3 in E. half;
                    and raise a mound of stone, 2 ft. base, 1\frac{1}{2} ft. high,
                    W. of cor.
              The cor. of secs. 3, 4, 9 and 10. Land, rolling desert.
 79.68
              Soil, gravelly; 3rd rate.
              No timber.
              Undergrowth, greasewood, palo verde, ocotillo and cacti.
                                                                                             R. D. A.
Feb. 24, 1916.
              Feb. 10, 1916: A. S. At 8 hrs. 30 m., a.m., l.m.t., I set off 34° 35½° N. on the lat. arc; 14° 35½° S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 4, 5, 32 and 33, which is a stone, established by D. J. W.,
                    as described in Book "A".
               Thence I run
              N.0° 2' W., bet. secs. 32 and 33. Over mountainous land, through scattering undergrowth.
              Desc. 60 ft. to
              Gulch, course W. Asc. to
Spur, extends 15 chs. W. Desc. to
Gulch, course SW. Asc. S. slope to
Main divide, brs. NW. and SE. Desc. 555 ft.

Impracticable to set an iron post at this point. Set a
malpais stone, 18 X 15 X 10 ins., 14 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.

Center of gulch, 70 lks. wide, course SW. Asc. 45 ft. to
Hill. Desc. NE. slope, 50 ft. to
Set an iron post, 3 ft. long, 2 ins. diam., 26 ins. in the
ground, for cor. of secs. 28, 29, 32 and 33, marked on
brass cap
               Gulch, course W.
   2.00
                                                Asc. to
   7.00
 20.00
 25.00
  40.00
  71.00
  78.00
 80.00
                    brass cap
                                            1916 on S. rim;
                                            T15N R19W 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, l^{\frac{1}{2}} ft. high,
                    W. of cor.
              Land, mountainous.
              Soil, rocky; 4th rate.
              No timber.
              Undergrowth, greasewood, ocotillo, sagebrush and cacti.
              Feb. 10, 1916: The sky was overcast at noon, making an observation for lat. impossible. Feb. 10, 1916.
                                                                                                      A. S.
              Feb. 15, 1916: R. D. A.
               At.10 hrs. 0 m, a.m., 1.m.t., I set off 34° 361 N. on the lat. arc; 12° 56' S. on the decl. arc; and determine
                     a meridian with the solar at the cor. of secs. 28, 20,
                     32 and 33.
               Thence I run
              N.89° 58' E., on a random line, bet. secs. 28 and 33.

Set temp. \(\frac{1}{4}\) sec. cor.

Intersect N. and S. line, 9 lks. N. of the cor. of secs.

27, 28, 33 and 34.
  40.00
  80.14
               Thence I run
N.89° 58' W., on a true line, bet. secs. 28 and 33.
               Over mountainous land, through scattering undergrowth.
               Along N. slope.
               Spur, extends 10 chs. N. Desc. 115 ft. to
    3.30
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Subdivision of T. 15 N., R. 19 W.
                                                                                                                17.
Chains.
              Gulch, 15 lks. wide, course N. Asc. 245 ft. to Spur, extends 10 chs. N. Desc. 355 ft.

Impracticable to set an iron post at this point. Set a granite stone, 18 X 12 X 7 ins., 15 ins. in the ground, for \(\frac{1}{4}\) sec. cor., marked \(\frac{1}{4}\) on N. face; and raise a mound of stone, 2 ft. base, \(\frac{1}{2}\) ft. high, N. of cor.

Gulch, 15 lks. wide, course NE. Asc. 55 ft. to
 10.15
 27.00
 40.07
 40.65
 43·55
47·85
              Spur, slopes N. Desc. to
              Gulch, 10 lks. wide, course N. Asc. 115 ft. to
 52.35
65.35
71.30
79.15
80.14
              Spur, slopes N. Desc. 225 ft. to
              Gulch, 50 lks. wide, course NE. Asc. 50 Spur, hrs. NW. and SE. Desc. 70 ft. to Gulch, 10 lks. wide, course NW. Asc. to The cor. of secs. 28, 29, 32 and 33.
                                                                           Asc. 50 ft. to
              Land, mountainous.
              Soil, rocky; 4th rate.
              No timber.
              Undergrowth, greasewood, palo verde, ocotillo and cacti.
                                                                                                  R. D. A.
                                                                                             Feb. 15, 1916.
              Feb. 10, 1916: A. S. N.O° 2' W., bet. secs. 28 and 29. Over mountainous land, through scattering undergrowth.
              Desc. to
             Gulch, course NW. Asc. 190 ft. to
Spur, brs. NW. and SE. Desc. 140 ft. to
Gulch, 10 lks. wide, course E. Asc. 30 ft. to
Spur, extends 5 chs. E. Desc. 25 ft. to
Gulch, 15 lks. wide, course SE. Asc. 220 ft. to
Spur, extends 20 chs. SE. Thence along broken E. slope.
.30
8.70
15.85
17.80
20.10
 29.80
                   Desc. 35 ft. to
             Asc. 35 ft. to
Desc. 30 ft. to
Asc. 45 ft. to
Desc. 35 ft. to
32.00
34.45
36.95
 38.00
              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;
 40.00
                                            \frac{1}{4}S29 in W. and
                                            $28 in E. half;
                    and raise a mound of stone, 2 ft. base, 1\frac{1}{2} ft. high,
                   W. of cor.
                                                                                             Feb. 10, 1916.
              Feb. 13, 1916: At 10 hrs. a.m., l.m.t., I set off 34° 37' N. on the lat. arc; 13° 36' S. on the decl. arc; and
                    determine a meridian with the solar at the \frac{1}{4} sec. cor.
                    bet. secs. 28 and 29.
              Thence I continue measurement
              N.0° 2' W., bet. secs. 28 and 29.
             Ridge, brs. E. and W. Desc. N. slope, 530 ft. to Gulch, 10 lks. wide, course NE. Asc. S. slope, 70 ft. to Set an iron post, 3 ft. long, 2 ins. diam., on bed rock,
 42.80
 77.60
                    26 ins. in a mound of stone,
                                                                          for cor. of secs. 20, 21,
                    28 and 29, marked on brass cap
                                            1916 on S. rim; T15N R19W in N. half;
                                            S2Ó 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, mountainous.
              Soil, rocky; 4th rate.
              No timber.
              Undergrowth, greasewood, palo verde, ocotillo and cacti.
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18.
                                Subdivision of T. 15 N. R. 19 W
    Chains.
                   Feb. 13, 1916: At this cor., I set off 13° 34½ S. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 37½ N.
                                                                                                    Feb. 13, 1916.
                   Feb. 17, 1916: R. D. A. At 8 hrs. 30 m., a.m., l.m.t., I set off 34° 37½' N. on lat. arc; 12° 15' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 20, 21, 28
                         and 29.
                   Thence I run
                   S.89° 58' E., on a random line, bet. secs. 21 and 28. Set temp. \( \frac{1}{4} \) sec. cor. Intersect N. and S. line, 21 lks. N. of the cor. of secs.
      40.00
      80.14
                        21, 22, 27 and 28.
                   Thence I run
                   N.89° 49' W., on a true line, bet. secs. 21 and 28.
                   Over mountainous land, through scattering undergrowth.
                   Desc. 45 ft. to

Wash, 30 lks. wide, course NE. Asc. 90 ft. to

Spur, slopes N.10° E. Desc. 70 ft. to

Ravine, course N. Asc. 270 ft. to

Spur, slopes N. Desc. 150 ft.

Impracticable to set an iron post at this point.
     4.95
9.70
14.60
      37.10
40.07
                         granite stone, 20 X 10 X 10 ins., 6 ins. in the ground, 12 ins. in a mound of stone, for \frac{1}{4} sec. cor., marked \frac{1}{4}
                         on N. face; and raise a mound of stone, 2 ft. base, 1\frac{1}{2}
                   ft. high, N. of cor.

Gulch, course N. Asc. 65 ft. to

Spur, slopes N. Desc. 105 ft. to

Wash, 50 lks. wide, course NE. Asc. 125 ft. to

The cor. of secs. 20, 21, 28 and 29.
      44.00
48.25
69.55
80.14
                   Land, mountainous.
                   Soil, rocky; 4th rate.
                   No timber.
                   Undergrowth, greasewood, palo verde, ocotillo and cacti.
                                                                                                    Feb. 17, 1916.
                  Feb. 14, 1916: At 8 hrs. 30 m., a.m., l.m.t., I set off 34° 37½' N. on the lat. arc; 13° 16½' S. on the decl. arc; and determine a meridian with the solar at the cor.
                         of secs. 20, 21, 28 and 29.
                   Thence I run
                   N.0° 2' W., bet. secs. 20 and 21.

Over mountainous land, through scattering undergrowth.

Asc. 70 ft. to

Ridge, brs. E. and W. Desc. 385 ft. to
        5.80
      18.60
                   Gulch, course NW.
                                                      Asc. 30 ft., along W. slope, to
      26.75
28.50
                   Desc. 40 ft. to
                   Asc, 55 ft. to
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
      40.00
                                                  1916 on S. rim;
                                                   \frac{1}{4}$20 in W. and
                         S21 in E. half; and raise a mound of stone, 2 ft. base, l^{\frac{1}{2}} ft. high,
                         W. of cor.
                   Desc. 90 ft. to
                  Gulch, course NW. Asc. 65 ft. to
Spur, slopes NW. Desc. 215 ft. to
Wash, course NW. Leave mountainous land, thence over roll-
      49 • 75
      59.00
      79.20
                         ing land.
                   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
      80.00
                                                                                                      26 ins. in the
```

brass cap

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Subdivision of T. 15 N., R. 19 W.
                                                                                                              19.
Chains.
                                             1916 on S. rim;
T15N R19W in N. half;
                                             S17 in NW.,
                                             S16 in NE.,
                                             S21 in SE. and
                    S20 in SW. quadrant; and raise a mound of stone, 2 ft. base, l\frac{1}{2} ft. high,
                    W. of cor.
              Land, rolling and mountainous.
               Soil, rocky; 4th rate.
              No timber.
              Undergrowth, greasewood, palo verde, ocotillo and cacti. Feb. 14, 1916: At this cor., I set off 13° 14½' S. on the decl arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 38½' N.
              Feb. 17, 1916:
S.89° 49' E., on a random line, bet. secs. 16 and 21.
Set temp. ½ sec. cor.
Intersect N. and S. line, 16 lks. S. of the cor. of secs.
 40,00
 80.24
              15, 16, 21 and 22.
Thence I run
N.89° 56' W., on a true line, bet. secs. 16 and 21.
Over rolling land, through dense undergrowth.
              Center of wash, 1 ch. 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

1916 on S. rim;
\( \frac{1}{4} \) Sl6 in N. and
 35.00
 40.12
                                             S21 in S. half;
                    and raise a mound of stone, 2 ft. base, 1\frac{1}{2} ft. high,
                    N. of cor.
              Center of wash, 4 chs. wide, course N.30° W. The cor. of secs. 16, 17, 20 and 21.
 53.50
80.24
              Land, rolling desert.
              Soil, rocky; 4th rate.
              No timber.
              Undergrowth, greasewood, palo verde, ocotillo and cacti.
                                                                                                    R. D. A.
                                                                                              Feb. 17, 1916.
              Feb. 23, 1916: A. S. N.O° 2' W., bet. secs. 16 and 17.
             Over rolling land, through dense undergrowth.

Set an ifonapost, 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;
 40.00
                                             \frac{1}{4}S17 in W. and S16 in E. half;
                    and raise a mound of stone, 2 ft. base, 1\frac{1}{2} ft. high.
                    W. of cor.
              Center of wash, 60 lks. wide, course NW.
Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 8, 9, 16 and 17, marked on
 50.00
                    brass cap
                                            1916 on S. rim;
T15N R19W in N. half;
                                             S8 in NW.,
                    S9 in NE.,
S16 in SE. and
S17 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.
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20.
                          Subdivision of T. 15 N. R. 19 W.
   Chains.
               No timber.
               Undergrowth, greasewood, ocotillo, palo verde and cacti.
               S.89° 56' E., on a random line, bet. secs. 9 and 16.
               Set temm. \frac{1}{4} sec. cor. Intersect N. and S. line, 9 ks. S. of the cor. of secs.
    40.00
    79.98
               9, 10, 15 and 16. Thence I run
               West on a true line, bet. secs. 9 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;
    39.99
                                       \frac{1}{4}S9 in N. and
                                       Slb in S. half;
                   and raise a mound of stone, 2 ft. base, l^{\frac{1}{2}} ft. high,
                   N. of cor.
    65.00
               Center of wash, 1 ch. wide, course NW.
               The cor. of secs. 8, 9, 16 and 17.
    79.98
               Land, rolling desert.
               Soil, gravelly; 4th rate.
               No timber.
               Undergrowth, greasewood, palo verde, ocotillo and cacti.
                                                                               Feb. 23, 1916.
               Feb. 24, 1916.
N.O° 2' W., bet. secs. 8 and 9.
               Over rolling land, through dense undergrowth.
               Wash, 15 1ks. wide, 10 ft. deep, 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

1916 on S. rim;
    14.00
    40.00
                                        \frac{1}{4}$8 in W. and
                   $9 in E. half; and raise a mound of stone, 2 ft. base, 1\frac{1}{2} ft. high,
                   W. of cor.
               Center of wash, 1 ch. wide, 10 ft. deep, course NW.
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
    75.00
                    brass cap
                                       1916 on S. rim;
                                       Ti5N R19W 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, l^{\frac{1}{2}} ft. high,
                    W. of cor.
               Land, rolling.
               Soil, gravel; 4th rate.
               No timber.
               Undergrowth, greasewood, palo verde, ocotillo and cacti.
               East on a random line, bet. secs. 4 and 9.
    40.00
               Set temp. \(\frac{1}{4}\) sec. cor.
               Intersect N. and S. line, 2 lks. S. of the cor. of secs.
    80.05
               3, 4, 9 and 10. Thence I run S.89° 59' W., on a
                                   on a true line, bet. secs. 4 and 9.
    Over rolling land, through dense undergrowth.

17.00
Center of wash, 1.50 chs. wide, 70 ft. deep, course NW.

5et 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;
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1916 on S. rim; $\frac{1}{4}$ Š31 in W. and \$32 in E. half;

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22.
                           Subdivision of T. 15 N., R. 19 W.
    Chains.
                     and raise a mound of stone, 2 ft. base, l_2^{\frac{1}{2}} ft. high,
                     W. of cor.
      45.00
                Desc. to Wash, 25 lks. wide, 15 ft. deep, course SW. Asc. 115 ft.
      46.60
                     to
      59.90
                Desc. to
               Gulch, 10 ft. deep, course SW. Asc. 365 ft. to
Main divide, brs. E. and W. Desc. 90 ft. to
Ravine, course NW. Asc. 30 ft. to
Set an iron post, 3 ft. long, 2 ins. diam., 26 ins. in the
ground, for cor. of secs. 29, 30, 31 and 32, marked on
     62.10
     64.80
      80.00
                    brass cap
                                        1916 on S. rim;
T15N R19W in N. half;
                                        $30 in NW.,
                                        $29 in E.,
                                        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, mountainous.
                Soil, rocky; 4th rate.
                No timber.
                Undergrowth, greasewood, palo verde, ocotillo and cacti.
                                                                                    D. J. W.
                N.89° 58' E., on a random line, bet. secs. 29 and 32.
      40.00
                Set temp. \frac{1}{4} sec. cor.
                Intersect N. and S. line, 5 lks. S. of the cor. of secs.
      79.72
                28, 29, 32 and 33. Thence I run
                S.89° 56' W., on a true line, bet. secs. 29 and 32.
                Over mountainous land, through scattering undergrowth.
                Asc. 30 ft. to
Hill. Desc. 70 ft. to
Center of gulch, 75 lks. wide, course NW. Asc. 70 ft. to
Spur, brs. NW. Desc. 75 ft. to
     5.00
13.53
18.80
     29.75
30.70
34.80
39.86
                Asc. 15 ft. to
               Desc. 110 ft. to Gulch, course NE. Asc. 40 ft. to Spur, extends 10 chs. NW. Desc. 20 ft.
                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}S29 in N. and S32 in S. half; and raise a mound of stone, 2 ft. base, l_{2}^{\frac{1}{2}} ft. high,
                     N. of cor.
               Gulch, course N. Asc. 45 ft. to
Spur, extends 7 chs. N. Desc. 45 ft. to
Gulch, course NE. Asc. 65 ft. to
Spur, brs. NE. Desc. 30 ft. to
Gulch, course NE. Asc. 110 ft. to
     40.50
42.95
47.80
      50.80
     52.15 58.30
                Spur, slopes NE. Desc. 190 ft. to
                Gulch, course NW. Asc. 190 ft. to Spur, slopes N. Desc. 70 ft. to The cor. of secs. 29, 30, 31 and 32.
     62.00
     76.50
79.72
                Land, mountainous.
                Soil, rocky; 4th rate.
                 No timber.
                Undergrowth, greasewood, sagebrush, ocotillo and cacti.
                Feb. 10, 1916: The sky was over cast at noon, making an
                     observation for lat. impossible.
                                                                                      A. S.
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Subdivision of T. 15 N., R. 19 W.
                                                                                                                                23.
Chains.
                D. J. W. S.89° 58' W., on a random line, bet. secs. 30 and 31.
                Set temp. \( \frac{1}{4} \) sec. cor.

Intersect W. bdy. of Tp., 9 lks. N. of the cor. of secs. 25, 30, 31 and 36, which is an iron post, established by John Gonin, U. S. Transitman, as described in Book \( \frac{1}{4} \).
  40.00
 79.02
                Thence I run
N.89° 54' E., on a true line, bet. secs. 30 and 31.
                 Desc. to
                Gulch, 10 lks. wide, course SW. Asc. 545 ft. to
Spur, brs. NE. and SW. Desc. 115 ft. to
Ravine, course S. Asc. 40 ft. to
Spur, slopes S. Desc. 20 ft.
Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
ground, for 4 sec. cor., marked on brass cap
1916 on S. rim;
 27.90
34.15
35.30
                                                   \frac{1}{4}S30 in N. and
                       S31 in S. half; and raise a mound of stone, 2 ft. base, l\frac{1}{2} ft. high,
                       N. of cor.
 44.75
47.90
53.55
68.35
73.50
79.02
                                                         Asc. 85 ft, to
                Ravine, course SW.
                Main divide, brs. NW. and SE. Desc. 55 ft. to
                Ravine, course NE. Asc. 75 ft. to Low spur, slopes N. Desc. 100 ft. to Gulch, course NW. Asc. 105 ft. to The cor. of secs. 29, 30, 31 and 32.
                Land, mountainous.
                Soil, rocky; 4th rate.
                No timber.
                Undergrowth, greasewood, ocotillo and cacti. Feb. 10, 1916: The sky was overcast at noon, making an observation for lat. impossible.
                N.0° 3' W., bet. secs. 29 and 30.
                Over mountainous land, through dense undergrowth.
                Asc. SW. slope, 40 ft. to

Spur, slopes NW. Desc. 150 ft. to

Ravine, course NW. Asc. 60 ft. to

Spur, slopes NW. Desc. 220 ft. to

Center of wash, 1 ch. wide, course W. Asc. 50 ft. to

Low hill, brs. W. Desc. N. slope, 55 ft. to

Ravine, course NW. Asc. 45 ft.

Set an iron post, 3 ft. long, 1 in. diam., 13 ins. in the ground, on bed rock, 12 ins. in a mound of stone, for the sec. cor. marked on brass cap
   1.90
 7.00
12.40
 33.70
35.75
 35.75
38.80
 40.00
                       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, 2ft. base, l\frac{1}{2} ft. high,
                       W. of cor.
                Low hill brs. NW. Desc. 100 ft. to
Center of wash, 70 lks. wide, course W. Asc. 70 ft. to
Low hill, brs. NW. Desc. 50 ft. to
Ravine, course NW. Thence along W. slope.
Gulch, 30 lks. wide, 20 ft. deep, course SW. Asc. slightly
 43.00
 46.40
 51.40
63.10
68.00
                       to
                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
 80.00
                       brass cap
                                                   1916 on S. rim;
T15N R19W in N. half;
                                                   $19 in NW.,
                                                   S2Ó in NE.,
                                                   S29 in SE. and
                                                   S30 in SW. quadrant;
                       and raise a mound of stone, 2 ft. base, l^{\frac{1}{2}} ft. high,
                W. of cor.
Land, mountainous.
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24

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Subdivision of T. 15 N. R. 19 W
Chains.
              Soil, rocky: 4th rate.
              No timber.
              Undergrowth, greasewood, ocotillo, palo verde and cecti.
                                                                                                 D. J. W.
                                                                                            Feb. 10, 1916.
              Feb. 13, 1916: A. S. N.89° 56' E., on a random line, bet. secs. 20 and 29. Set temp. 1 sec. cor. Intersect N. and S. line, at the cor. of secs. 20, 21, 28
 40.00
 79.90
                    and 29.
              Thence I run
              S.89° 56' W., on a true line, bet. secs. 20 and 29.
              Over mountainous land, through scattering undergrowth. Asc. 15 ft. to
   5.87
              Spur, slopes NW.
                                             Desc. 80 ft. to
  9.10
              Gulch, course NW. Asc. 585 ft. to
Spur, extends 15 chs. NE. Desc. 70 ft. to
 32.30
             Impracticable to set an iron post at this point. Set a granite stone, 16 X 6 X 6 ins., 12 ins. in the ground, for \frac{1}{4} sec. cor., marked \frac{1}{4} on N. face; and raise a mound of stone, 2 ft. base, 1\frac{1}{2} ft. high, N. of cor.

Asc. 45 ft. to
 39.95
             Spur, extends 15 chs. N. Desc. 290 ft. to Head of gulch, course N. Asc. 55 ft. to Spur, slopes NW. Desc. 220 ft. to Asc. 245 ft. to Point of spur, slopes N. Desc. 110 ft. to
 42.40
 48.50
55.10
61.75
75.50
 79.90
              The cor. of secs. 19, 20, 29 and 30.
              Land, mountainous. Soil, rocky; 4th rate.
              No timber.
              Undergrowth, greasewood, ocotillo, sagebrush and cacti.
              S.89° 54' W., on a random line, bet. secs. 19 and 30.
              Set temp. \frac{1}{4} sec. cor.
 40.00
             Intersect W. bdy. of Tp., 23 lks. N. of the cor. of secs. 19, 24, 25 and 30, which is an iron post, established by John Gonin, U. S. Transitman, as described in Book
 78.70
              Thence I run
              N.89° 44' E., on a true line, bet. secs. 19 and 30.
              Over mountainous land, through scattering undergrowth. Asc. 140 ft. to
             Spur, slopes NW. Desc. 75 ft. to Asc. 35 ft. to Spur, slopes N. Desc. 90 ft. to
  9.50
 19.40
24.95
33.80
37.70
38.70
             Gulch, course NW. Asc. 145 ft. to
Spur, slopes NE. Desc. 40 ft.
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}S19 in N. and S30 in S. half; and raise a mound of stone, 2 ft. base, 1\frac{1}{2} ft. high.
                   N. of cor.
             Gulch, course NW. Asc. 55 ft. to
Spur, slopes NW. Desc. 40 ft. to
Center of draw, 3 chs. wide, course NW. Asc. 195 ft. to
Spur, extends 20 chs. NW. Desc. 170 ft. to
 43.40
58.90
             Gulch, 25 lks. wide, course NW. Asc. 105 ft. to Point of spur, slopes NW. Desc. 15 ft. to
64.00
67.40
             Enter bed of wash, course NW.
Leave bed of wash, course NW. Asc.
The cor. of secs. 19, 20, 29 and 30.
70.20
                                                                       Asc. 65 ft. to
             Land, mountainous.
             Soil, rocky; 4th rate.
             No timber.
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25.
Chains.
             Undergrowth, greasewood, palo verde, ocotillo and cacti.
                                                                                     Feb. 13, 1916.
             Feb. 14, 1916: At 9 hrs. 0 m., a.m., l.m.t., I set off 34° 37\frac{1}{2}! N. on the lat. arc; 13^{\circ} 16\frac{1}{2}! S. on the decl.
                  arc; and determine a meridian with the solar at the
                  cor. of secs. 19, 20, 29 and 30.
             Thence I run
             N.0° 3' W., bet. secs. 19 and 20.
             Over mountainous land, through dense undergrowth.
             Desc. 40 ft. to
  2.75
9.70
            Ravine, course W.
                                            Asc: 100 ft. to
            Spur, slopes W. Asc. 55 ft. to Spur, slopes W.
                                        Desc. to
 12.00
18.40
                                         Desc. 180 ft. to
24.00
28.50
            Gulch, course W. Spur, slopes NW.
                                         Asc. 60 ft. to
            Spur, slopes NW. Desc. 415 ft.

Set an iron post, 3 ft. long, 1 in. diam., 16 ins. in the ground, on bed rock, 10 ins. in a mound of stone, for \(\frac{1}{4}\) sec. cor., marked on brass cap
40.00
                 1916 on S. rim;
\frac{1}{4}$19 in W. and
$20 in E. half;
and raise a mound of stone, 2 ft. base, 1\frac{1}{2} ft. high,
                 W. of cor.
45.00
           Leave mountainous land, brs. E. and W.
                                                                                Thence over rolling
                 land.
            Wash, 15 lks. wide, course NW. Enter wash, course N. Comes from SE.
50.90
62.70
           Leave wash, 20 lks. wide, 10 ft. deep, course NW.
Set an iron post, 3 ft. long, 2 ins. diam., 26 ins. in the ground, for cor. of secs. 17, 18, 19 and 20, marked on
 73.10
8ō.00
                 brass cap
                                       1916 on S. rim;
                                       T15N R19W 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, l^{\frac{1}{2}} ft. high,
                 W. of cor.
            Land, rolling and mountainous.
            Soil, rocky; 4th rate.
           No timber.
            Undergrowth, greasewood, palo verde, ocotillo and cacti.
           Feb. 14, 1916: At this cor., I set off 13° 14\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} 38\frac{1}{2}'N.
            R. D. A.
           N.89° 56' E., on a random line, bet. secs. 17 and 20.
           Set temp: 1. sec. cor. line, 5 lks. N. of the cor. of secs. 16, 17, 20 and 21.

Thence I run
40.00
80.02
           S.89° 58' W., on a true line, bet. secs. 17 and 20. Over rolling land, through dense undergrowth.
           Over rolling rand, the Wash, course NW.
Wash, 20 lks. wide, 30 ft. deep, course NW.
Center of wash, 3 chs. wide, 10 it. deep, course NW.
Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for 4 sec. cor., marked on brass cap

1916 on S. rim;

1817 in N. and
.20
20.80
36.75
40.01
                S20 in S. half; and raise a mound of stone, 2 ft. base, 1\frac{1}{2} ft. high,
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26.
                          Subdivision of T. 15 N., R. 19 W.
   Chains.
                     N. of cor.
    47.50
80.02
                Center of wash, 1 ch. wide, 40 ft. deep, course N.
                The cor. of secs. 17, 18, 19 and 20.
                Land, rolling.
                Soil, gravelly and rocky; 3rd and 4th rate.
                No timber.
                Undergrowth, greasewood, palo verde, ocotillo and cacti.
                                                                                            R. D. A.
                A. S.
                S.89° 44'W., on a random line, bet. secs. 18 and 19.
Set temp. \( \frac{1}{4} \) sec. cor.
Intersect \( \frac{1}{2} \) bdy. of \( \frac{1}{2} \), \( \frac{1}{2} \), \( \frac{1}{2} \) which is an iron post, established by John Gonin, U. S. Transitman, as described in Book
     40.00
    78.97
                     "A".
                Thence I run
N.89° 49' E., on a true line, bet. secs. 18 and 19.
Over rolling land, through dense undergrowth.
                Center of wash, 1 ch. 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

1916 on S. rim;
    14.15
38.97
                                           \frac{1}{4}S18 in N. and
                                           $19 in S. half;
                     and raise a mound of stone, 2 ft. base, 1\frac{1}{2} ft. high,
                N. of cor.
Wash, 20 lks. wide, course NE.
Wash, 50 lks. wide, 10 ft. deep, course NE.
The cor. of secs. 17, 18, 19 and 20.
Land, rolling and broken.
                Soil, gravelly and rocky; 3rd and 4th rate.
                No timber.
                Undergrowth, greasewood, palo verde, ocotillo and cacti.
                N.0° 3' W., bet. secs. 17 and 18.
                Over rolling land, through dense undergrowth.
               Wash, 50 lks. wide, 10 ft. deep, course NE.

Center of wash, 60 lks. wide, 10 ft. deep, course NW.

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

1916 on S. rim;
      2.20
8.70
    40.00
                                           \frac{1}{4}S18 in W. and
                     $17 in E. half; and raise a mound of stone, 2 ft. base, 1\frac{1}{2} ft. high,
                     W. of cor.
                Set an iron post, 3 ft. long, 2 ins. diam., 26 ins. in a ground, for cor. of secs. 7, 8, 17 and 18, marked on
    80.00
                                                                                         26 ins. in the
                     brass cap
                                           1916 on S. rim;
                                           TI5N R19W in N. half;
                                           S7 in NW.,
S8 in NE.,
                                           S17 in NE. and
S18 in SW. quadrant;
                     and raise a mound of stone, 2 ft. base, 1\frac{1}{2} ft. high.
                     W. of cor.
                Land, rolling desert.
                         sand and gravel; 3rd rate.
                Soil,
                No timber.
                Undergrowth, greasewood, palo verde, ocotillo and cacti.
                                                                                       Feb. 14, 1916.
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Subdivision of T. 15 N., R. 19 W.
                                                                                                                           27.
Chains.
                Feb. 24, 1916:
                                              Cloudy. Run back and foresight line from
               line previously established.

N.89° 58' E., on a random line, bot. secs. 8 and 17.

Set temp. \( \frac{1}{4}\) sec. cor.

Intersect N. and S. line, 2 lks. S. of the cor. of secs.
 40.00
 79.96
               8, 9, 16 and 17. Thence I run
              S.89° 57' W., on a true line, bet. secs. 8 and 17.

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

\[
\frac{1916}{120} \) on S. rim;
 39.98
                                                 \frac{1}{4}S8 in N. and
                     $17 in S. half; and raise a mound of stone, 2 ft. base, l\frac{1}{2} ft. high,
                     N. of cor.
               Wash, 3 chs. wide, 15 ft. deep, course N. Wash, 20 lks. wide, 15 ft. deep, course NW. The cor. of secs. 7, 8, 17 and 18.
 41.00
 70.00
 79.96
               Land, rolling.
               Soil, gravel; 4th rate.
               No timber.
               Undergrowth, greasewood, ocotillo, sagebrush and cacti.
                                                                                                       Feb. 24, 1916.
              Feb. 14, 1916.

S.89° 49' W., on a random line, bet. secs. 7 and 18.

Set temp. ½ sec. cor.

Intersect W. bdy. of Tp., ll lks. S. of the cor. of secs.

7, 12, 13 and 18, which is an iron post, established by John Gonin, U. S. Transitman, as described in Book

"A".
 40.00
78.86
              Thence 1 run
N.89° 54 E., on a true line, bet. secs. 7 and 18.
Over rolling land, through dense undergrowth.
  6.80
               Wash, course N.
              Center of wash, 60 lks. wide, course N.
Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ½ sec. cor., marked on brass cap

1916 on S. rim;
15.95
38.86
                     \frac{1}{4}S7 in N. and S18 in S. half; and raise a mound of stone, 2 ft. base, l^{\frac{1}{2}} ft. high,
                     N. of cor.
              Wash, 50 lks. wide, course NE. Center of wash, 60 lks. wide, course N. Center of wash, 1 ch. wide, course NW. The cor. of secs. 7, 8, 17 and 18. Land, rolling desert.
44.75
49.95
54.75
78.86
              Soil, gravelly; 3rd rate.
              No timber.
              Undergrowth, greasewood, palo verde, ocotillo and cacti.
              N.0° 3' W., bet. secs. 7 and 8.
              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;
40.00
                                                \frac{1}{5}% in W. and \frac{1}{5}% in E. half;
                     and raise a mound of stone, 2 ft. base, l^{\frac{1}{2}} ft. high,
                     W. of cor.
                                                                                                      A. S.
Feb. 14, 1916.
              Feb. 25, 1916: R. D. A.
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At 8 hrs. 30 m., a.m., 1.m.t., I set off 34° 39½' N. on

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<u> 28. </u>
                              Subdivision of T. 15 N., R. 19 W.
     Chains.
                      the lat. arc; 9° 23' S. on the decl. arc; and determine
                      a meridian with the solar at the \frac{1}{4} sec. cor. bet. secs.
                      7 and 8.
                 Thence I continue measurement
                N.0° 3' W., bet. secs. 7 and 8.
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
      80.00
                      brass cap
                                          1916 on S. rim;
T15N R19W 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, l^{\frac{1}{2}} ft. high,
                      W. of cor.
                 Land, rolling desert.
                 Soil, gravel; 3rd rate.
                 No timber.
                 Undergrowth, greasewood, palo verde, ocotillo and cacti.
                                                                                         R. D. A.
                                                                                    Feb. 25, 1916.
                 Feb. 24, 1916: A. S. and R. D. A. N.89° 57' E., on a random line, bet. secs. 5 and 8. Set temp. \(\frac{1}{4}\) sec. cor. Intersect N. and S. line, 7 lks. S. of the cor. of secs.
      40.00
      79.80
                 4, 5, 8 and 9. Thence I run
                                                         Feb. 25, 1916.
                 S.89° 54' W., on a true line, bet. secs. 5 and 8. Over rolling land, through dense undergrowth. Center of wash, 1 ch. wide, 10 ft. deep, course NW.
        4.00
                 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
      39.90
                      ground, for \( \frac{1}{4} \) sec. cor., marked on brass cap \( \frac{1916}{4} \) on S. rim;
                                           \frac{1}{4}S5 in N. and
                                           $8 in S. half;
                      and raise a mound of stone, 2 ft. base, l_2^{\frac{1}{2}} ft. high,
                      N. of cor.
                 Center of wash, 2 chs. wide, course NW. The cor. of secs. 5, 6, 7 and 8. Land, rolling desert. Soil, gravel; 3rd rate.
      69.90
      79.80
                 No timber.
                 Undergrowth, greasewood, palo verde, ocotillo, sagebrush
                      and cacti.
                                                                                     Feb. 25, 1916.
                                                                           A. S. and R. D. A.
                 Feb. 25, 1916: R. D. A.
S.89° 54' W., on a random line, bet. secs. 6 and 7.
Set temp. ½ sec. cor.
Intersect W. bdy. of Tp., 2 lks. N. of the cor. of secs.
1, 6, 7 and 12, which is an iron post, established by
John Gonin, U. S. Transitman, as described in Book "A"
       40.00
      78.76
                 Thence I run
                 N.89° 53' E.,
                                       on a true line, bet. secs. 6 and 7.
                  Over rolling land, through scattering undergrowth.
                 Wash, 50 lks. wide, couuse 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
        8.76
      38.76
                                           1916 on S. rim;
                                           \frac{1}{4}S6 in N. and
                      $7 in S. half; and raise a mound of stone, 2 ft. base, l^{\frac{1}{2}} ft. high,
                      N. of cor.
      78.76
                  The cor. of secs. 5, 6, 7 and 8.
                 Land, rolling desert.
                  Soil, gravel; 3rd rate.
                  No timber.
                  Undergrowth, greasewood, palo verde, ocotillo and cacti.
```

		Subdivision of T. 15 N., R. 19 W. 29.
-	Chains.	
		N.0° 3' W., on a random line, bet. secs. 5 and 6.
	40.00	Set temp. $\frac{1}{4}$ sec. cor.
		Intersect N. bdy. of Tp., 26 lks. E. of the cor. of secs.
	1500	5, 6, 31 and 32, which is an iron post, established
		by me, as described in Book "A".
		Thence I run
		S.0° 14' E., on a true line, bet. secs. 5 and 6.
	0 05	Over rolling land, through dense undergrowth.
		Center of wash, 70 lks. wide, course NE.
	39.85	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;
		$\frac{1}{4}S6$ in W. and
		S5 in E. half;
		and raise a mound of stone, 2 ft. base, $1\frac{1}{6}$ ft. high.
		W. of cor.
	59 • 85	Center of wash, 2 chs. wide, course NW.
	79.85	The cor. of secs. 5, 6, 7 and 8.
	1500	Land. rolling desert.
		Soil, gravel; 3rd rate.
		No timber.
		Undergrowth, greasewood, palo verde, ocotillo and cacti.
		Feb. 25, 1916.
		R. D. A.
	1	

GENERAL DESCRIPTION.

The land in this township varies from rough mountains in the southern portion to rolling benches in the north. The soil is principally of rocky formation, which supports no vegetation, except a growth of greasewood, palo verde and cacti. There is no water, except in tanks which are dry during the summer months. There are numerous indications of different kinds of metals in the mountain regions. There are no settlers.

Stone was set in place of iron posts, for corners in this township, where the cost of packing the posts was prohibitive.

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
	rom the U. S. Surveyor General for
\	day of, 191 , I have well, faithfully, and truly
	in strict conformity with said instructions, the Manual of Surveying
\	
	United States, surveyed all those parts or portions of
\	
Meridian,	in the State of , which are represented in
the foregoing field notes as have	ing been executed by me, and under my direction; and I do further
solemnly swear that all the corne	ers of said survey have been established and perpetuated in strict accord
ance with the Manual of Surveyir	ng Instructions, and the special written instructions of the U.S. Surveyor
Jeneral for	and in the specific manner described in the field notes, and that
the foregoing are the original fiel	d notes of such survey.
	U. S. Surveyor.
Subscribed by said	, and sworn to before me)
. /	191
unity of)
SEAL	
	·
	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
F(1)	
	15 North, Range 19 West
of the Gi	la & Salt River Base & Meridian
of the Gi	
of the Gi	la & Salt River Base & Meridian in the State of Arizona
of the Gi	la & Salt River Base & Meridian in the State of Arizona Smith Jr., U.S.Surveyor and
of the Gi	la & Salt River Base & Meridian in the State of Arizona Smith Jr., U.S.Surveyor and olff and Ray D.Armstrong, U.S.Transitmen.
of the Gi	la & Salt River Base & Meridian in the State of Arizona Smith Jr., U.S.Surveyor and olff and Ray D.Armstrong, U.S.Transitmen.
of the Gineral executed by Albert Deane J.Wounder special instructions da	la & Salt River Base & Meridian in the State of Arizona Smith Jr., U.S.Surveyor and olff and Ray D.Armstrong, U.S.Transitmen. ted December 28,1914 for Group 42,Arigona, having been
of the Gineral executed by Albert Deane J.W. ander special instructions date oritically examined, and the necessity of the control of the Gineral examined.	la & Salt River Base & Meridian in the State of Arizona Smith Jr., U.S.Surveyor and olff and Ray D.Armstrong, U.S.Transitmen. ted December 28,1914 for Group 42,Arigona, having been essary corrections and explanations made, the said field notes, and the
of the Gineral executed by Albert Deane J.W. ander special instructions date oritically examined, and the necessity of the control of the Gineral examined.	la & Salt River Base & Meridian in the State of Arizona Smith Jr., U.S.Surveyor and olff and Ray D.Armstrong, U.S.Transitmen. Ited December 28,1914 for Group 42, Arizona having been essary corrections and explanations made, the said field notes, and the yapproved.
of the Gineral executed by Albert Deane J.Wounder special instructions da	la & Salt River Base & Meridian in the State of Arizona Smith Jr., U.S.Surveyor and olff and Ray D.Armstrong, U.S.Transitmen. ted December 28,1914 for Group 42,Arigona, having been essary corrections and explanations made, the said field notes, and the