

BOOK "M"

FIELD NOTES

OF THE SURVEY OF THE

Subdivision Lines of

Township 16 North - Range 16 West

of the Gila & Salt River Base & Meridian,

In the State of Arizona

EXECUTED BY

Irving W. Stoddard, U.S. Surveyor,

R. D. Armstrong, U.S. Transitman

Elmer F. Strickler, ^{and} Temporary Transitman.

~~*In the capacity of U. S. Surveyor*~~, under instructions dated *Dec. 28*, 1914,

issued by the United States Surveyor General to govern surveys included in

Group No. 41, which were approved by the Commissioner of the General Land

Office, Jan. 22, 1915, ~~*pursuant to authority contained in the Act of*~~

~~*Congress dated*~~, 191

Survey commenced May 8, 1915

Survey completed " 15, 1915

And executed under assignment instructions dated Jan'y 28, and May 1 - 1915

Book "M"



BOOK 2924

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Township 16 North Range 16 West

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 Notes in Book "A"
 Surveyed under Gp. 42

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

13

Chains.

Survey commenced May 8, 1915, and executed by Irving W. Stoddard, U. S. Surveyor, R. D. Armstrong, U. S. Transitman, and Elmer F. Strickler, Temporary Transitman, with Young and Sons' light mountain transits, Nos. 8485 and 8531, with Smith Solar Attachments. For description of instruments and certificate of approval, see Book "A".

In the following field notes, the initials I. W. S., R. D. A. and E. F. S. refer to Irving W. Stoddard, U. S. Surveyor, R. D. Armstrong, U. S. Transitman, and Elmer F. Strickler, Temporary Transitman, respectively.

Knowing from recent and repeated tests of these instruments on a meridian established by observations on Polaris at elongation, that they are in adjustment, we proceed to the subdivision of T. 16 N., R. 16 W.

I. W. S., R. D. A. & E. F. S.

I. W. S.
 At 7 hrs. 54 m., a.m., l.m.t., I set off 34° 41' N. on the lat. arc; 16° 55' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 1, 2, 35 and 36, on the S. bdy. of the Tp., which is an iron post, established by R. D. A., as described in Book "A".

Thence I run
 N. 0° 1' W., bet. secs. 35 and 36.
 Over level land, through scattering timber and undergrowth. Wash, course SW. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for 1/4 sec. cor., marked on brass cap

40.00

1915 on S. rim;
 1/4 S35 in W. and
 S36 in E. half;

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.

61.40

Old road, brs. NW. and SE.

80.00

Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 25, 26, 35 and 36, marked on brass cap

1915 on S. rim;
 T16N R16W in N. half;
 S26 in NW.,
 S25 in NE.,
 S36 in SE. and
 S35 in SW. quadrant;

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.

Land, level and slightly rolling.
 Soil, sandy and gravelly, 2nd rate.
 Timber, scattering juniper.
 Undergrowth, yucca, palo christa, greasewood and cacti.

S. 89° 55' E., on a random line, bet. secs. 25 and 36.

40.00

Set temp. 1/4 sec. cor.

79.80

Intersect E. bdy. of Tp., 7 lks. S. of the cor. of secs. 25, 30, 31 and 36, which is an iron post, established by me, as described in Book "A".

Thence I run

N. 89° 58' W., on a true line, bet. secs. 25 and 36.

Over level land, through scattering timber and undergrowth.

15.80

Wash, course SW. Asc. SE. slope, 295 ft.

39.90

Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground, on solid rock, supported by a mound of stone, for 1/4 sec. cor., marked on brass cap

1915 on S. rim;
 1/4 S25 in N. and
 S36 in S. half;

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

48.00

Spur, brs. S. Desc. W. slope, 430 ft. to

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

<p>Chains. 64.80 79.80</p>	<p>Foot of desc., brs. N. and S. Thence over slightly rolling land. The cor. of secs. 25, 26, 35 and 36. Land, level and mountainous. Soil, rocky 4th rate. Timber, scattering juniper. Undergrowth, yucca, cat claw and cacti.</p> <p style="text-align: right;">I. W. S. May 8, 1915.</p>
<p>30.00 35.00 40.00 42.50 50.00 80.00</p>	<p>May 9, 1915. R. D. A. N.0° 1' W., bet. secs. 25 and 26. Over level land, through scattering timber and undergrowth. Asc. S. slope, 140 ft. to Spur, brs. W. Thence along W. slope. 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 1915 on S. rim; $\frac{1}{4}$S26 in W. and S25 in E. half; and raise a mound of stone, 2 ft. base, 1$\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Asc. SW. slope, 60 ft. to Spur, brs. W. Desc. NW. slope, 75 ft. to Foot of desc., brs. E. and W. Thence over level land. Set an iron post, 3ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 23, 24, 25 and 26, marked on brass cap 1915 on S. rim; T16N R16W 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. Pits impracticable. Land, level and mountainous. Soil, 4th rate. Timber, juniper. Undergrowth, yucca and cacti.</p>
<p>40.00 79.80 12.80 39.90 79.80</p>	<p>S.89° 58' E., on a random line, bet. secs. 24 and 25. Set temp. $\frac{1}{4}$ sec. cor. Intersect E. bdy. of Tp., 26 lks. S. of the cor. of secs. 19, 24, 25 and 30, which is an iron post, established by I. W. S., as described in Book "A". Thence I run S.89° 51' W., on a true line, bet. secs. 24 and 25. Over mountainous land, through scattering timber and undergrowth. Asc. SE. slope, 70 ft. to Low divide, brs. NW. and SE. Desc. SW. slope, 355 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 1915 on S. rim; $\frac{1}{4}$S24 in N. and S25 in S. half; and raise a mound of stone, 2 ft. base, 1$\frac{1}{2}$ ft. high, N. of cor. Pits impracticable. Thence over level land. The cor. of secs. 23, 24, 25 and 26. Land, level and mountainous. Soil, rocky 4th rate. Timber, juniper. Undergrowth, yucca and cacti.</p> <p style="text-align: right;">R. D. A. May 9, 1915.</p>

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

3.

Chains

May 11, 1915: E. F. S.
 N.0° 1' W., bet. secs. 23 and 24.
 Over mountainous land, through scattering timber and under-
 Growth.

1.60 Asc. SW. slope, 750 ft. to
 27.40 Ridge, brs. NW. and SE. Desc. NE. slope, 405 ft.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 14 ins. in the
 ground, on solid rock, supported by a mound of stone,
 for $\frac{1}{4}$ sec. cor., marked on brass cap
 1915 on S. rim;
 $\frac{1}{4}$ S23 in W. and
 S24 in E. half;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 W. of cor. Pits impracticable.

49.70 Canyon, course NW. Asc. S. slope, 80 ft. to
 59.20 Spur, brs. W. Desc. N. slope, 255 ft. to
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the
 ground, for cor. of secs. 13, 14, 23 and 24, marked on
 brass cap
 1915 on S. rim;
 T16N R16W 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, $1\frac{1}{2}$ ft. high,
 W. of cor. Pits impracticable.
 Land, mountainous.
 Soil, rocky, 4th rate.
 Timber, juniper.
 Undergrowth, greasewood, ocatilla, scrub oak and cacti.

40.00 N.89° 51' E., on a random line, bet. secs. 13 and 24.
 Set temp. $\frac{1}{4}$ sec. cor.
 79.60 Intersect E. bdy. of Tp., 23 lks. N. of the cor. of secs.
 13, 18, 19 and 24, which is an iron post, established
 by H. W. S., as described in Book "A".
 Thence I run
 N.89° 59' W., on a true line, bet. secs. 13 and 24.
 Over rolling land, through scattering undergrowth.
 Asc. E. slope, 110 ft. to
 36.20 Low spur, brs. N. Desc. NW. slope, 280 ft.
 39.80 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
 1915 on S. rim;
 $\frac{1}{4}$ S13 in N. and
 S24 in S. half;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 N. of cor. Pits impracticable.

41.60 Gulch, course N. Continue to desc. NW. slope to
 79.60 The cor. of secs. 13, 14, 23 and 24.
 Land, rolling and mountainous.
 Soil, rocky, 3rd and 4th rate.
 No timber.
 Undergrowth, greasewood, yucca, and cacti.
 Cracker grass.

E. F. S.
May 11, 1915.

May 12, 1915: R. D. A.
 N.0° 1' W., bet. secs. 13 and 14.
 Over level land, through scattering timber and undergrowth.
 24.00 Old road, brs. E. and W.

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

Chains.	
40.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap 1915 on S. rim; $\frac{1}{4}$ S14 in W. and S13 in E. half; dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 11, 12, 13 and 14, marked on brass cap 1915 on S. rim; T16N R16W in N. half; S11 in NW., S12 in NE., S13 in SE. and S14 in SW. quadrant; dig pits, 18 X 18 X 12 ins., in each sec., $5\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, level. Soil, 3rd rate. Timber, juniper. Undergrowth, yucca and cacti.
40.00	S. $89^{\circ} 59'$ E., on a random line, bet. secs. 12 and 13. Set temp. $\frac{1}{4}$ sec. cor.
79.72	Intersect E. bdy. of Tp., 23 lks. S. of the cor. of secs. 7, 12, 13 and 18, which is an iron post, established by I. W. S., as described in Book "A". Thence I run S. $89^{\circ} 51'$ W., on a true line, bet. secs. 12 and 13.
19.70	Over level land, through scattering timber and undergrowth.
28.70	Leave level land, brs. N. and S. Asc. E. slope, 80 ft. to Spur, brs. S. Desc. W. slope, 195 ft. to
38.70	Wash, course S. Asc. SE. slope, 40 ft.
39.86	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 1915 on S. rim; $\frac{1}{4}$ S12 in N. and S13 in S. half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
44.70	Spur, brs. S. Desc. SW. slope, 145 ft. to
59.00	Foot of desc.; brs. N. and S. Thence over level land.
79.72	The cor. of secs. 11, 12, 13 and 14. Land, level and mountainous. Soil, rocky, 4th rate. Timber, juniper. Undergrowth, yucca and cacti. May 12, 1915: At this cor., I set off $18^{\circ} 1'$ N. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is $34^{\circ} 44\frac{1}{2}'$ N.
15.00	N. $0^{\circ} 1'$ W., bet. secs. 11 and 12. Over rolling land, through scattering timber and undergrowth.
38.00	Asc. SE. slope, 280 ft. to Spur, brs. SW. Thence along W. slope.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap 1915 on S. rim; $\frac{1}{4}$ S11 in W. and S12 in E. half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Desc. NW. slope, 350 ft. to

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

5.

Chains

65.00
80.00

Foot of desc.; brs. NE. and SW. Thence over level land.
 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 1, 2, 11 and 12, marked on brass cap

1915 on S. rim;
 T16N R16W in N. half;
 S2 in NW.,
 S1 in NE.,
 S12 in SE. and
 S11 in SW. quadrant;

and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
 Land, level and mountainous.
 Soil, 4th rate.
 Timber, juniper.
 Undergrowth, yucca and cacti.

40.00
79.72

N.89° 51' E., on a random line, bet. secs. 1 and 12.
 Set temp. ¼ sec. cor.
 Intersect E. bdy. of Tp., 2 lks. S. of the cor. of secs. 1, 6, 7 and 12, which is an iron post, established by I. W. S., as described in Book "A".

Thence I run
 S. 89° 50' W., on a true line, bet. secs. 1 and 12.
 Over mountainous land, through scattering timber and undergrowth.

35.10
38.20
39.86

Desc. SW. slope, 790 ft. to
 Gulch, course SW. Asc. SE. slope, 50 ft. to
 Spur, brs. S. Desc. W. slope, 480 ft.
 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap

1915 on S. rim;
 ¼S1 in N. and
 S12 in S. half;

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

65.70
74.70
79.72

Gulch, course SW. Desc. SW. slope
 Spur, brs. S. Desc. W. slope.
 The cor. of secs. 1, 2, 11 and 12.
 Land, mountainous.
 Soil, rocky 4th rate.
 Timber, juniper.
 Undergrowth, cacti.

R. D. A.
 May 12, 1915.

40.00
79.74

May 14, 1915. E. F. S.
 N.0° 1' W., on a random line, bet. secs. 1 and 2.
 Set temp. ¼ sec. cor.
 Intersect N. bdy. of Tp., 7 lks. W. of the cor. of secs. 1, 2, 35 and 36, which is an iron post, established by I. W. S., as described in Book "A".

Thence I run
 S.0° 2' W., on a true line, bet. secs. 1 and 2.
 Along broken W. slope, through scattering undergrowth.

8.70
15.45
39.74

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

1915 on S. rim;
 ¼S2 in W. and
 S1 in E. half;

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

Chains.

54.75	and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
79.74	Desc. S. slope, 365 ft. Butte brs. E. 6 chs. dist. The cor. of secs. 1, 2, 11 and 12. Land, mountainous and broken. Soil, rocky, 4th rate. No timber. Undergrowth, cacti. Cracker grass.
	E. F. S. May 14, 1915.
40.00	May 9, 1915; R. D. A. From the cor. of secs. 2, 3, 34 and 35, on the S. bdy. of the Tp., which is an iron post, established by W.S. as described in Book "A", I run N.0° 1' W., bet. secs. 34 and 35. Over level land, through scattering timber and undergrowth. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap 1915 on S. rim; ¼S34 in W. and S35 in E. half; dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.
76.90	Road, brs. NW. to Yucca, and SE. to Signal.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 26, 27, 34 and 35, marked on brass cap 1915 on S. rim; T16N R16W in N. half; S27 in NW., S26 in NE., S35 in SE. and S34 in SW. quadrant; dig pits, 18 X 18 X 12 ins., in each sec., 5½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, level. Soil, 3rd rate. Timber, juniper. Undergrowth, yucca and cacti.
40.00	S.89° 55' E., on a random line, bet. secs. 26 and 35. Set temp. ¼ sec. cor.
79.72	Intersect N. and S. line, 37 lks. S. of the cor. of secs. 25, 26, 35 and 36. Thence I run S.89° 49' W., on a true line, bet. secs. 26 and 35. Over level land, through scattering timber and undergrowth.
36.12	Old road, brs. NW. and SE.
38.72	Pipe line road, brs. NW. and SE.
39.86	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap 1915 on S. rim; ¼S26 in N. and S35 in S. half; dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.
79.72	The cor. of secs. 26, 27, 34 and 35. Land, level. Soil, 3rd rate. Timber, juniper. Undergrowth, yucca and cacti. May 9, 1915: At this cor., I set off 17° 14' N. on the

Chains.

decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 42' N.
R. D. A.
May 9, 1915.

40.00 May 11, 1915: E. F. S.
N.0° 1' W., bet. secs. 26 and 27.
Over level land, through scattering timber and undergrowth.
Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for 1/4 sec. cor., marked on brass cap
1915 on S. rim;
1/4 S27 in W. and
S26 in E. half;
dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 22, 23, 26 and 27, marked on brass cap
1915 on S. rim;
T16N R16W in N. half;
S22 in NW.,
S23 in NE.,
S26 in SE. and
S27 in SW. quadrant;
and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.
Land, level.
Soil, sandy loam, 2nd rate.
Timber, juniper.
Undergrowth, yucca, palo christa, and cacti.
Cracker grass.

40.00 N.89° 49' E., on a random line, bet. secs. 23 and 26.
Set temp. 1/4 sec. cor.

79.70 Intersect N. and S. line, 65 lks. N. of the cor. of secs. 23, 24, 25 and 26.
Thence I run
N.89° 43W., on a true line, bet. secs. 23 and 26.
Over level land, through scattering timber and undergrowth.

39.85 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for 1/4 sec. cor., marked on brass cap
1915 on S. rim;
1/4 S23 in N. and
S26 in S. half;
dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.

54.00 Leave level land, brs. N. and S. Asc. E. slope, 135 ft.

69.70 Rocky knoll. Desc. W. slope, 180 ft. to

71.70 Foot of desc., brs. N. and S. Thence over level land.

75.00 Read, brs. S. 24° E. and N. 24° W.

79.70 The cor. of secs. 22, 23, 26 and 27.
Land, level and mountainous.
Soil, sandy loam, 2nd rate, and rocky, 4th rate.
Timber, juniper.
Undergrowth, yucca, palo christa, soap weed and cacti.
May 11, 1915: At this cor., I set off 17° 45 1/2' N. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 42 1/2' N.
May 11, 1915. E. F. S.

May 12, 1915. R. D. A.
At 8 hrs. 10 m., a.m., l.m.t., I set off 34° 42 1/2' N. on the lat. arc; 17° 59' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 22, 23, 26 and 27.
Thence I run

8.

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

Chains.	
	N.0° 14' W., bet. secs. 22 and 23.
11.20	Over level land, through scattering timber and undergrowth.
40.00	Road, brs. NW. to Yucca and SE. to Signal.
	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
	1915 on S. rim;
	$\frac{1}{4}$ S22 in W. and
	S23 in E. half;
	dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft.
	dist.; and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft.
80.00	high, W. of cor.
	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the
	ground, for cor. of secs. 14, 15, 22 and 23, marked on
	brass cap.
	1915 on S. rim;
	T16N R16W in N. half;
	S15 in NW.,
	S14 in NE.,
	S23 in SE. and
	S22 in SW. quadrant;
	dig pits, 18 X 18 X 12 ins., in each sec., 5 $\frac{1}{2}$ ft. dist.;
	and raise a mound of earth, 4 ft. base, 2 ft. high,
	W. of cor.
	Land, level.
	Soil, 3rd rate.
	Timber, juniper.
	Undergrowth, yucca and cacti.
40.00	S.89° 43' E., on a random line, bet. secs. 14 and 23.
79.56	Set temp. $\frac{1}{4}$ sec. cor.
	Intersect N. and S. line, 42 lks. S. of the cor. of secs.
	13, 14, 23 and 24.
	Thence I run
	S.89° 59' W., on a true line, bet. secs. 14 and 23.
39.78	Over level land, through scattering timber and 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
	1915 on S. rim;
	$\frac{1}{4}$ S14 in N. and
	S23 in S. half;
	dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft.
	dist.; and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft.
79.56	high, N. of cor.
	The cor. of secs. 14, 15, 22 and 23.
	Land, level.
	Soil, 3rd rate.
	Timber, juniper.
	Undergrowth, yucca and cacti.
	R. D. A.
	May 12, 1915.
	May 13, 1915. E. F. S.
	At 7 hrs. 54 m., a.m., 1.m.t., I set off 34° 43 $\frac{1}{2}$ ' N. on the
	lat. arc; 18° 14' N. on the decl. arc; and determine a
	meridian with the solar at the cor. of secs. 14, 15, 22
	& 23.
	Thence I run
	N.0° 1' W., bet. secs. 14, and 15.
33.50	Over level land, through scattering timber and undergrowth.
40.00	Road, brs. E. and W.
	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
	ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
	1915 on S. rim;
	$\frac{1}{4}$ S15 in W. and
	S14 in E. half;

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

Chains.

dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.
 From this cor., Seneca Ranch House, owned by Wm. E. Sham, brs. West.
 Windmill brs. S. 88° W.
 Road, brs. E. and W.
 47.80
 49.10 Fence of Seneca Ranch, brs. N. 64° E., and S. 64° W.
 56.75 Fence of Seneca Ranch, brs. N. 77½° E., and S. 77½° W.
 Asc. S. slope, 75 ft. to
 63.75 Spur, brs. E. From this point,
 Seneca Ranch House brs. S. 45½° W.
 Windmill brs. S. 41¾° W.
 Desc. N. slope, 80 ft. to
 75.00 Wash, course W.
 80.00 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 brass cap
 1915 on S. rim;
 T16N R16W in N. half;
 S10 in NW.,
 S11 in NE.,
 S14 in SE. and
 S15 in SW. quadrant;
 and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
 Land, level and rolling.
 Soil, 2nd and 3rd rate.
 Timber, scattering juniper.
 Undergrowth, yucca, cat claw and cacti.
 May 13, 1915: At this cor., I set off 18° 16' N. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 44½' N.

N. 89° 59' E., on a random line, bet. secs. 11 and 14.
 40.00 Set temp. ¼ sec. cor.
 79.72 Intersect N. and S. line, 30 lks. N. of the cor. of secs. 11, 12, 13 and 14.
 Thence I run
 N. 89° 48' W., on a true line, bet. secs. 11 and 14.
 Over level land, through scattering timber and undergrowth.
 39.86 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground for ¼ sec. cor., marked on brass cap
 1915 on S. rim;
 ½ S11 in N. and
 S14 in S. half;
 and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
 61.22 Wash, course NW.
 79.72 The cor. of secs. 10, 11, 14 and 15.
 Land, level.
 Soil, gravelly loam, 1st rate.
 Timber, scattering juniper.
 Undergrowth, yucca, cat claw, and cacti.
 Cracker grass.

May 13, 1915.

May 14, 1915.
 N. 0° 1' W., bet. secs. 10 and 11.
 Over level land, through scattering timber and undergrowth.
 22.00 Wash, course W.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap
 1915 on S. rim;
 ½ S10 in W. and

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

Chains.

S11 in E. half;
and raise amount of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
W. of cor. Pits impracticable.

40.40 Asc. S. slope, 145 ft. to
61.05 Spur, brs. W. Desc. N. slope, 160 ft. to
65.10 Foot of desc., brs. E. and W. Thence over rolling land.
65.60 Wash, course W.
80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the
ground, for cor. of secs. 2, 3, 10 and 11, marked on
brass cap

1915 on S. rim;
T16N R16W in N. half;
S3 in NW.,
S2 in NE.,
S11 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. Pits impracticable.

Land, level and hilly.
Soil, gravelly loam, 1st rate and rocky, 3rd rate.
Timber, juniper.
Undergrowth, yucca, cat claw, and cacti.
May 14, 1915: At this cor., I set off $18^{\circ} 31'$ N. on the
decl. arc; and at apparent noon, I observe the sun on
the meridian; the resulting lat. is $34^{\circ} 45'$ N.

S. $89^{\circ} 48'$ E., on a random line, bet. secs. 2 and 11.
40.00 Set temp. $\frac{1}{4}$ sec; cor.
79.72 Intersect N. and S. line, 9 lks. N. of the cor. of secs.
1, 2, 11 and 12.
Thence I run
N. $89^{\circ} 44'$ W., on a true line, bet secs. 2 and 11.
Over level land, through scattering timber and undergrowth.
39.86 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
1915 on S. rim;
 $\frac{1}{4}$ S2 in N. and
S11 in S. half;
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
N. of cor. Pits impracticable.

40.70 Gulch, course SW.
79.72 The cor. of secs. 2, 3, 10 and 11.
Land, level.
Soil, rocky 3rd rate.
Timber, juniper.
Undergrowth, greasewood, cat claw, yucca and cacti.
Cracker grass.

May 14, 1915.

May 15, 1915.
N. $0^{\circ} 1'$ W., on a random line, bet. secs. 2 and 3.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
79.73 Intersect N. bdy. of Tp., 2 lks. W. of the cor. of secs.
2, 3, 34 and 35, which is a cross on a granite boulder,
established by I. W. S., as described in Book "A".
Thence I run
South, on a true line, bet. secs. 2 and 3.
Over mountainous land, through scattering timber and
undergrowth.
Desc. SW. slope, 1330 ft.
39.73 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
1915 on S. rim;
 $\frac{1}{4}$ S3 in W. and
S2 in E. half;

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

Chains.

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

49.75 Gulch, course W.

51.75 Gulch, course W. Asc. N. slope, 100 ft. to

56.75 Spur, brs. W. Desc. S. slope, 265 ft. to

69.00 Foot of desc., brs. E. and W. Thence over rolling land.

79.73 The cor. of secs. 2, 3, 10 and 11.

Land, rolling and mountainous.

Soil, rocky 4th, rate.

Timber, scattering juniper.

Undergrowth, greasewood, cat claw, yucca and cacti.

E. F. S.
May 15, 1915.

May 9, 1915. I. W. S.

From the cor of secs. 3, 4, 33 and 34, on the S. bdy. of the Tp., which is an iron post, established by R. D. A., as described in Book "A"., I run

N.0° 2' W., bet. secs. 33 and 34.

Over level land, through scattering timber and undergrowth.

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

1915 on S. rim;
¼S33 in W. and
S34 in E. half;

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

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

1915 on S. rim;
T16N R16W in N. half;
S28 in NW.,
S27 in NE.,
S34 in SE. and
S33 in SW. quadrant;

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

Land, level.

Soil, gravelly and rocky, 2nd and 3rd rate.

Timber, scattering juniper.

Undergrowth, greasewood, yucca, palo christe and cacti.

I. W. S.
May 9, 1915.

May 11, 1915. E. F. S.

At 7 hrs. 58 m., a.m., l.m.t., I set off 34° 42' N. on the lat. arc; 17° 43½' N. on the decl. arc; and determine a meridian; with the solar at the cor. of secs. 27, 28, 33 and 34.

Thence I run

S.89° 55' E., on a random lline, bet. secs. 27 and 34.

40.00 Set temp. ¼ sec. cor.

80.20 Intersect N. and S. line, 4 lks. S. of the cor. of secs. 26, 27, 34 and 35.

Thence I run

N.89° 57' W., on a true line, bet. secs. 27 and 34.

Over level land, through scattering timber and undergrowth.

2.50 Road, brs. NW. to Yucca and SE. to Signal.

36.45 Road, brs. N. to Seneca Ranch and Yucca and S. to Castaneta Well.

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

1915 on S. rim;
¼S27 in N. and
S34 in S. half;

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

Chains.	<p>dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.</p> <p>68.70 Road, brs. NW. to Yucca, and SE. to Castaneta Well.</p> <p>80.20 The cor. of secs. 27, 28, 33 and 34.</p> <p>Land, level.</p> <p>Soil, shallow gravelly loam, 2nd and 3rd rate.</p> <p>Timber, juniper.</p> <p>Undergrowth, greasewood, yucca, ocetille and cacti.</p> <p style="text-align: right;">E. F. S.</p>
8.70 40.00 80.00	<p>R. D. A.</p> <p>N.0° 2' W., bet. secs. 27 and 28.</p> <p>Over level land, through scattering timber and undergrowth.</p> <p>Road, brs. E. to Castaneta Well, and W. to Yucca.</p> <p>Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec; cor., marked on brass cap</p> <p style="padding-left: 40px;">1915 on S. rim; ¼S28 in W. and S27 in E. half;</p> <p>dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.</p> <p>Set an iron post, 3 ft. long, 2 in. diam., 24 ins. in the ground, for cor. of secs. 21, 22, 27 and 28, marked on brass cap</p> <p style="padding-left: 40px;">1915 on S. rim; T16N R16W in N. half; S21 in NW., S22 in NE., S27 in SE and S28 in SW. quadrant;</p> <p>dig pits, 18 X 18 X 12 ins., in each sec., 5½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.</p> <p>Land, level.</p> <p>Soil, 3rd rate.</p> <p>Timber, scattering juniper.</p> <p>Undergrowth, yucca and cacti.</p>
40.00 79.80 28.30 39.90 66.20 79.80	<p>S.89° 57' E., on a random line, bet. secs. 22 and 27.</p> <p>Set temp. ¼ sec. cor.</p> <p>Intersect N. and S. line, 7½ lks. S. of the cor. of secs. 22, 23, 26 and 27.</p> <p>Thence I run</p> <p>West, on a true line, bet. secs. 22 and 27.</p> <p>Over level land, through scattering timber and undergrowth.</p> <p>Road, brs. N. to Yucca and S. to Castaneta Well.</p> <p>Set an iron post, 3 ft; long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap</p> <p style="padding-left: 40px;">1915 on S. rim; ¼S22 in N. and S27 in S. half;</p> <p>dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.</p> <p>Old road, brs. NW. and SE.</p> <p>The cor. of secs. 21, 22, 27 and 28.</p> <p>Land, level.</p> <p>Soil, 3rd rate.</p> <p>Timber, juniper.</p> <p>Undergrowth, yucca, and cacti.</p>
	<p>R. D. A. May 11, 1915.</p>

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

Chains.

May 12, 1915: E. F. S.
N.0° 2' W., bet. secs. 21 and 22.
Over level land, through scattering timber and undergrowth.
Road, brs. WNW. and ESE.

16.65
40.00

Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for 1/4 sec. cor., marked on brass cap
1915 on S. rim;
1/4 S21 in W. and
S22 in E. half;

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

80.00

Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 15, 16, 21 and 22, marked on brass cap

1915 on S. rim;
T16N R16W in N. half;
S16 in NW.,
S15 in NE.,
S22 in SE. and
S21 in SW. quadrant;

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

Land, level.
Soil, sandy loam, 1st rate.
Timber, juniper.
Undergrowth, palo christe, yucca and cacti.

40.00
79.98

East, on a random line, bet. secs. 15 and 22.
Set temp. 1/4 sec. cor.
Intersect N. and S. line, 18 lks. N. of the cor. of secs. 14, 15, 22 and 23.

Thence I run
N.89° 52' W., on a true line, bet. secs. 15 and 22.
Over level land, through scattering timber and undergrowth.
Road, brs. NW. to Yucca, and SE. to Signal.

28.20
29.70
39.99

Road, brs. N. to Yucca, and S. to Castaneta Well.
Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for 1/4 sec. cor., marked on brass cap
1915 on S. rim;
1/4 S15 in N. and
S22 in S. half;

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

60.35
65.00
79.98

Asc. E. slope, 75 ft. to
Ridge, brs. N. and S. Desc. W. slope, 115 ft. to
Foot of desc., thence over level land.
The cor. of secs. 15, 16, 21 and 22.

Land, level and hilly.
Soil, west half mile, rocky 4th rate; east half mile, sandy loam, 1st rate.
Timber, scattering juniper.
Undergrowth, greasewood, yucca and cacti.

E. F. S.
May 12, 1915.

40.00

May 13, 1915: R. D. A.
N.0° 2' W., bet. secs. 15 and 16.
Over level land, through scattering timber and undergrowth.
Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for 1/4 sec. cor., marked on brass cap
1915 on S. rim;
1/4 S16 in W. and
S15 in E. half;

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

Chains	and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
70.00	Telephone line, brs. NW. to Yucca, and SE. to Seneca Ranch.
70.80	Road, brs. NW. to Yucca, and SE. to Signal.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 9, 10, 15 and 16, marked on brass cap
	1915 on S. rim; T16N R16W in N. half; S9 in NW., S10 in NE., S15 in SE. and S16 in SW. quadrant;
	dig pits, 18 X 18 X 12 ins., in each sec., 5½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	Land, level. Soil, 3rd rate. Timber, scattering juniper. Undergrowth, yucca and cacti.
	R. D. A. May 13, 1915.
	May 14, 1915: E. F. S.
	S.89° 52' E., on a random line, bet. secs. 10 and 15.
40.00	Set temp. ¼ sec. cor.
79.76	Intersect N. and S. line, 19 lks. S. of the cor. of secs. 10, 11, 14 and 15.
	Thence I run
	West, on a true line, bet. secs. 10 and 15.
	Over level land, through scattering timber and undergrowth.
29.35	Wash, course WNW. Asc. NE. slope, 100 ft.
39.88	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap
	1915 on S. rim; ¼S10 in N. and S15 in S. half;
	and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
46.95	Spur, brs. N. Desc. NW. slope, 210 ft. to
74.75	Thence over level land.
79.76	The cor. of secs. 9, 10, 15 and 16.
	Land, level and rolling. Soil, rocky 4th rate. Timber, scattering juniper. Undergrowth, yucca, greasewood, cat claw and cacti.
	May 14, 1915.
	May 15, 1915: At 8 hrs. 6 m., a.m., 1.m.t., I set off 34° 44½' N. on the lat. arc; 18° 43½' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 9, 10, 15 and 16.
	Thence I run
	N.0° 2' W., bet. secs. 9 and 10.
	Over low hills, through scattering timber and undergrowth.
11.60	Wash, course W.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap
	1915 on S. rim; ¼S9 in W. and S10 in E. half;
	dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.
56.80	Enter wash, course W.
79.00	Leave wash, course W.

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

Chains

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 3, 4, 9 and 10, marked on brass cap
 1915 on S. rim;
 T16N R16W in N. half;
 S4 in NW.,
 S3 in NE.,
 S10 in SE. and
 S9 in SW. quadrant;
 and raise a mound of stone, 2 ft; base, 1½ ft. high, W. of cor. Pits impracticable.
 Land, level and rolling.
 Soil, sandy, 2nd rate.
 Timber, scattering juniper.
 Undergrowth, greasewood, yucca and cat claw.
 Cracker grass.

40.00 East, on a random, line, bet. secs. 3 and 10.
 Set temp. ¼ sec. cor.
 80.00 Intersect N. and S. line, 12 lks. N. of the cor. of secs. 2, 3, 10 and 11.
 Thence I run
 N. 89° 55' W., on a true line, bet. secs. 3 and 10.
 Over level land, through scattering timber and undergrowth.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap
 1915 on S. rim;
 ¼S3 in N. and
 S10 in S. half;
 and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
 74.00 Wash, course SW.
 80.00 The cor. of secs. 3, 4, 9 and 10.
 Land, level.
 Soil, sandy and rocky, 2nd and 3rd rate.
 Timber, scattering juniper.
 Undergrowth, yucca, cat claw and cacti.

40.00 N.0° 2' W., on a random line, bet. secs. 3 and 4.
 Set temp. ¼ sec. cor.
 79.59 Intersect N. bdy. of Tp., 41 lks. W. of the cor. of secs. 3, 4, 33 and 34, which is an iron post, established by I. W. S. as described in Book "A".
 Thence I run
 S.0° 16' W., on a true line, bet. secs. 3 and 4.
 Over mountainous land, through scattering timber and undergrowth.
 Asc. NW. slope, 180 ft. to
 20.30 Spur, brs. W. Thence along W. slope.
 39.59 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap
 1915 on S. rim;
 ¼S4 in W. and
 S3 in E. half;
 and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
 Asc. NW. slope, 85 ft. to
 53.15 Spur, brs. SW. Desc. SW. slope, 125 ft. to
 67.60 Foot of desc. brs. E. and W. Thence over level land.
 79.59 The cor. of secs. 3, 4, 9 and 10.
 Land, level and mountainous.
 Soil, rocky, 4th rate.
 Timber, scattering juniper.
 Undergrowth, cat claw, yucca and cacti.

16.

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

Chains.

May 15, 1915: At this cor., I set off $18^{\circ} 45\frac{1}{2}'$ N. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is $34^{\circ} 45'$ N.

May 15, 1915.
E. F. S.

May 11, 1915: R. D. A.

At 8 hrs. 10 m., a.m., l.m.t., I set off $34^{\circ} 41'$ N. on the lat. arc; $17^{\circ} 43\frac{1}{2}'$ N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 4, 5, 32 and 33, which is an iron post, established by L.W.S. as described in Book "A".

Thence I run

N. $0^{\circ} 2'$ W., bet. secs. 32 and 33.

Over level land, through scattering timber and undergrowth.

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

1915 on S. rim;

$\frac{1}{4}$ S32 in W. and

S33 in E. half;

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

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 28, 29, 32 and 33, marked on brass cap

1915 on S. rim;

T16N R16W in N. half;

S29 in NW.,

S28 in NE.,

S33 in SE. and

S32 in SW. quadrant;

dig pits, 18 X 18 X 12 ins., in each sec., $5\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Land, level.

Soil, 3rd rate.

Timber, juniper.

Undergrowth, yucca and cacti.

40.00 S $89^{\circ} 55'$ E., on a random line, bet. secs. 28 and 33.

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

79.76 Intersect N. and S. line, 35 lks. S. of the cor. of secs. 27, 28, 33 and 34.

Thence I run

S. $89^{\circ} 50'$ W., on a true line, bet. secs. 28 and 33.

Over level land, through scattering timber and undergrowth.

39.88 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

1915 on S. rim;

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

S33 in S. half;

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

79.76 The cor. of secs. 28, 29, 32 and 33.

Land, level.

Soil, 3rd rate.

Timber, scattering juniper.

Undergrowth, yucca and cacti.

May 11, 1915: At this cor., I set off $17^{\circ} 45\frac{1}{2}'$ N. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is $34^{\circ} 42'$ N.

R. D. A.

May 11, 1915.

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

Chains.

May 12, 1915: E. F. S.
 N.0° 2' W., bet. sec. 28 and 29.
 Over level land, through scattering timber and undergrowth.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
 1915 on S. rim;
 $\frac{1}{4}$ S29 in W. and
 S28 in E. half;
 dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft.
 dist.; and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft.
 high, W. of cor.
 54.00 Road, brs. ESE to Castaneta Well and WNW to Yucca.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the
 ground, for cor. of secs. 20, 21, 28 and 29, marked on
 brass cap
 1915 on S. rim;
 T16N R16W in N. half;
 S20 in NW.,
 S21 in NE.,
 S28 in SE. and
 S29 in SW. quadrant;
 dig pits, 18 X 18 X 12 ins., in each sec., 5 $\frac{1}{2}$ ft. dist.,
 and raise a mound of earth, 4 ft. base, 2 ft. high,
 W. of cor.
 Land, level.
 Soil, sandy loam, 1st rate.
 Timber, juniper.
 Undergrowth, yucca, greasewood, and cacti.
 Cracker grass.
 May 12, 1915: At this cor., I set off 18° 1' N. on the
 decl. arc; and at apparent noon, I observe the sun on
 the meridian; the resulting lat. is 34° 42 $\frac{1}{2}$ ' N.

40.00 N.89° 50' E., on a random line, bet. secs. 21 and 28.
 Set temp. $\frac{1}{4}$ sec. cor.
 80.12 Intersect N. and S. line, 35 lks. N. of the cor. of secs.
 21, 22, 27 and 28.
 Thence I run
 N.89° 55' W., on a true line, bet. secs. 21 and 28.
 Over low ridges, covered with granite boulders, through
 scattering timber and undergrowth.
 40.06 Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the
 ground, on solid rock, supported by a mound of stone,
 for $\frac{1}{4}$ sec. cor., marked on brass cap
 1915 on S. rim;
 $\frac{1}{4}$ S21 in N. and
 S28 in S. half;
 and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
 N. of cor. Pits impracticable.
 45.10 Wash, course S.
 62.60 Ravine, 5 chs. wide, course SE. Asc. E. slope, 75 ft. to
 65.90 Ridge, brs. N. and S. Desc. W. slope, 145 ft. to
 80.12 The cor. of secs. 20, 21, 28 and 29.
 Land, rolling.
 Soil, rocky 4th rate.
 Timber, scattering juniper.
 Undergrowth, greasewood, yucca and cacti.
 Cracker grass.

E. F. S.
May 12, 1915.

40.00 May 13, 1915: R. D. A.
 N.0° 2' W., bet. secs. 20 and 21.
 Over level 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 brasscap

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

Chains.

1915 on S. rim;
 $\frac{1}{4}$ S20 in W. and
 S21 in E. half;
 dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft.
 dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft.
 high, W. of cor.
 Asc. SW. slope, 360 ft. to
 Ridge, brs. E. and W. Desc. N. slope, 220 ft. to
 Thence over level land.
 60.00
 70.00
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the
 ground, for cor. of secs. 16, 17, 20 and 21, marked on
 brass cap

1915 on S. rim;
 T16N R16W in N. half;
 S17 in NW.,
 S16 in NE.,
 S21 in SE. and
 S20 in SW. quadrant;
 dig pits, 18 X 18 X 12 ins., in each sec., $5\frac{1}{2}$ ft. dist.;
 and raise a mound of earth, 4 ft. base, 2 ft. high,
 W. of cor.
 Land, mountainous and level.
 Soil, rocky 4th rate.
 No timber.
 Undergrowth, yucca and cacti.

S. $89^{\circ} 55'$ E., on a random line, bet. secs. 16 and 21.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.24 Intersect N. and S. line, 19 lks. S. of the cor. of secs.
 15, 16, 21 and 22,
 Thence I run
 S. $89^{\circ} 57'$ W., on a true line, bet. secs. 16 and 21.
 Over level land, through scattering timber and undergrowth.
 40.12 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

1915 on S. rim;
 $\frac{1}{4}$ S16 in N. and
 S21 in S. half;
 dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft.
 dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft.
 high, N. of cor.
 47.75 Road, brs. NW. and SE.
 80.24 The cor. of secs. 16, 17, 20 and 21.
 Land, level.
 Soil, 3rd rate.
 Timber, juniper.
 Undergrowth, yucca and cacti.

May 13, 1915.

May 14, 1915.
 N. $0^{\circ} 21'$ W., bet. secs. 16 and 17.
 Over level land, through scattering undergrowth.
 37.00 Road, brs. NW. and SE.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., marked on brass cap

1915 on S. rim;
 $\frac{1}{4}$ S17 in W. and
 S16 in E. half;
 dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft.
 dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft.
 high, W. of cor.
 45.00 Asc. SW. slope, 300 ft.
 59.00 Spur, brs. SE. Continue to asc. SW. slope to
 80.00 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
 brass cap

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

Chains.

1915 on S. rim;
T16N R16W 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 1/2 ft. high,
W. of cor. Pits impracticable.

Land, mountainous.

Soil, rocky 4th rate.

No timber.

Undergrowth, yucca and cacti.

40.00 N.89° 57' E., on a random line, bet. secs. 9 and 16.
Set temp. 1/4 sec. cor.
80.20 Intersect N. and S. line, 21 lks. N. of the cor. of secs.
9, 10, 15 and 16.

Thence I run

N.89° 54' W., on a true line, bet. secs. 9 and 16.

Over level land, through scattering timber and undergrowth.

12.20 Road, brs. NW. to Yucca, and SE. to Signal.

13.20 Telephone line, brs. NW. to Yucca, and SE. to Seneca Ranch.

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

1915 on S. rim;
1/4 S9 in N. and
S16 in S. half;

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

45.00 Leave level land, brs. NW. and SE. Asc. NE. slope, 260 ft.
to

63.20 Spur, brs. SE. Asc. SE. slope, 55 ft. to

76.20 Spur, brs. SE. Desc. SW. slope, 65 ft. to

80.20 The cor. of secs. 8, 9, 16 and 17.

Land, level and mountainous.

Soil, rocky 4th rate.

Timber, juniper.

Undergrowth, yucca and cacti.

May 14, 1915.

May 15, 1915.

N.0° 2' W., bet. secs. 8 and 9.

Over mountainous land, through scattering undergrowth.

Asc. SW. slope, 240 ft. to

16.00 Ridge, brs. NW. and SE. Desc. NE. slope, 650 ft.

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

1915 on S. rim;
1/4 S8 in W. and
S9 in E. half;

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,
W. of cor. Pits impracticable.

Continue to desc. NE. slope.

50.00 Foot of desc., brs. NW. and SE. Thence over level land.

58.50 Road, brs. NW. to Yucca, and SE. to Signal.

63.00 Telephone line, brs. NW. to Yucca, and SE. to Seneca Ranch

77.00 Wash, course NW.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the
ground, for cor. of secs. 4, 5, 8 and 9, marked on brass
cap

1915 on S. rim;
T16N R16W in N. half;
S5 in NW.,
S4 in NE.,

Chains.

S9 in SE. and
S8 in SW. quadrant;
dig pits, 18 X 18 X 12 ins., in each sec., $5\frac{1}{2}$ ft. dist.;
and raise a mound of earth, 4 ft. base, 2 ft. high,
W. of cor.
Land, level and mountainous.
Soil, rocky 4th rate.
No timber.
Undergrowth, yucca and cacti.

R. D. A.

E. F. S.
S. $89^{\circ} 54'$ E., on a random line, bet. secs. 4 and 9.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
80.00 Intersect N. and S. line, 2 lks. S. of the cor. of secs.
3, 4, 9 and 10.
Thence I run
N. $89^{\circ} 55'$ W., on a true line, bet. secs. 4 and 9.
Over level land, through scattering timber and undergrowth.
38.30 Road, brs. N. and S.
40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
1915 on S. rim;
 $\frac{1}{4}$ S4 in N. and
S9 in S. half;
dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft.
dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft.
high, N. of cor.
80.00 The cor. of secs. 4, 5, 8 and 9.
Land, level.
Soil, gravelly loam, 1st rate.
Timber, scattering juniper.
Undergrowth, yucca, cat claw and cacti.
Cracker grass.

N. $0^{\circ} 2'$ W., on a random line, bet. secs. 4 and 5.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
79.83 Intersect N. bdy. of Tp., 26 lks. W. of the cor. of secs.
4, 5, 32 and 33, which is an iron post, established
by I. W. S., as described in Book "A".
Thence I run
S. $0^{\circ} 9'$ W., on a true line, bet. secs. 4 and 5.
Over level land, through scattering timber and undergrowth.
39.83 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
1915 on S. rim;
 $\frac{1}{4}$ S5 in W. and
S4 in E. half;
dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft.
dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft.
high, W. of cor.
65.00 Desc. SW. slope, 30 ft. into wash.
79.83 The cor. of secs. 4, 5, 8 and 9.
Land, level.
Soil, sandy loam, 1st rate.
Timber, juniper.
Undergrowth, yucca and cacti.
Cracker grass.

May 15, 1915.

Chains.

May 12, 1915.

At 8 hrs. 10 m., a.m., l.m.t., I set off 34° 41' N. on the lat. arc. 17° 59' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 5, 6, 31 and 32, on the S. bdy. of the Tp., which is an iron post, established by R. D. A., as described in Book "A".

Thence I run

N.0° 3' W., bet. secs. 31 and 32.

Over level land, through scattering timber and undergrowth.

40.00

Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for 1/4 sec. cor., marked on brass cap
1915 on S. rim;
1/4 S31 in W. and
S32 in E. half;

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

80.00

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

1915 on S. rim;
T16N R16W in N. half;
S30 in NW.,
S29 in NE.,
S32 in SE. and
S31 in SW. quadrant;

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

Land, level.

Soil, gravelly loam, 1st rate.

Timber, scattering juniper.

Undergrowth, yucca, ocatilla, greasewood and cacti.

Cracker grass.

40.00

S.89° 55' E., on a random line, bet. secs. 32 and 29.

80.08

Set temp. 1/4 sec. cor.

Intersect N. and S. line, 15 lks. S. of the cor. of secs. 28, 29, 32 and 33.

Thence I run

N.89° 57' W., on a true line, bet. secs. 29 and 32.

Over level land, through scattering timber and undergrowth.

40.04

Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for 1/4 sec. cor., marked on brass cap
1915 on S. rim;
1/4 S29 in N. and
S32 in S. half;

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

80.08

The cor. of secs. 29, 30, 31 and 32.

Land, level.

Soil, sandy loam, 1st rate.

Timber, scattering juniper.

Undergrowth, yucca, greasewood and cacti.

Cracker grass.

40.00

N.89° 55' W., on a random line, bet. secs. 30 and 31.

79.20

Set temp. 1/4 sec. cor.

Intersect W. bdy. of Tp., 21 lks. N. of the cor. of secs. 25, 30, 31 and 36, which is an iron post, marked and witnessed as described by the Surveyor-General.

Thence I run

N.89° 56' E., on a true line, bet. secs. 30 and 31.

Over level land, through scattering undergrowth.

22.

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

Chains.

39.20 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
 1915 on S. rim;
 $\frac{1}{4}$ S30 in N. and
 S31 in S. half;
 dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

79.20 The cor. of secs. 29, 30, 31 and 32.
 Land, level.
 Soil, sandy loam, 1st rate.
 No timber.
 Undergrowth, greasewood, yucca, and cacti.
 Cracker grass.

E. F. S.
 May 12, 1915.

May 13, 1915: R. D. A.
 At 8 hrs. 9 m., a.m., l.m.t., I set off $34^{\circ} 42'$ N. on the lat. arc; $18^{\circ} 14'$ N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 29, 30, 31 and 32.
 Thence I run
 N. $0^{\circ} 3'$ W., bet. secs. 30 and 29.

40.00 Over level land, through scattering timber and 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
 1915 on S. rim;
 $\frac{1}{4}$ S30 in W. and
 S29 in E. half;
 dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 19, 20, 29 and 30, marked on brass cap
 1915 on S. rim;
 T16N R16W in N. half;
 S19 in NW.,
 S20 in NE.,
 S29 in SE. and
 S30 in SW. quadrant;
 dig pits, 18 X 18 X 12 ins., in each sec., $5\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
 Land, level.
 Soil, 3rd rate.
 Timber, scattering juniper.
 Undergrowth, yucca and cacti.

40.00 S. $89^{\circ} 57'$ E., on a random line, bet. secs. 20 and 29.
 Set temp. $\frac{1}{4}$ sec. cor.

80.10 Intersect N. and S. line, 16 lks. N. of the cor. of secs. 20, 21, 28 and 29.
 Thence I run
 N. $89^{\circ} 50'$ W., on a true line, bet. secs. 20 and 29.

26.00 Over level land, through scattering timber and undergrowth.
 Road, brs. NW. to Yucca and SE. to Castaneta Well.

40.05 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
 1915 on S. rim;
 $\frac{1}{4}$ S20 in N. and
 S29 in S. half;

Chains.

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

80.10 The cor. of secs. 19, 20, 29 and 30.

Land, level.
Soil, 3rd rate.
Timber, scattering juniper.
Undergrowth, yucca and cacti.

May 13, 1915: At this cor., I set off 18° 16' N. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 42½' N.

40.00 S.89° 56' W., on a random line, bet. secs. 19 and 30.

Set temp. ¼ sec. cor.

79.24 Intersect W. bdy. of Tp., 5 lks. S. of the cor. of secs. 19, 24, 25 and 30, which is an iron post, marked and witnessed as described by the Surveyor-General.

Thence I run

N.89° 58' E., on a true line, bet. secs. 19 and 30.

Over level land, through scattering timber and undergrowth.

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

1915 on S. rim;
¼S19 in N. and
S30 in S. half;

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

79.24 The cor. of secs. 19, 20, 29 and 30.

Land, level.
Soil, 3rd rate.
Timber, juniper.
Undergrowth, yucca and cacti.

May 13, 1915.

May 14, 1915.

At 7 hrs. 56 m., a.m., l.m.t., I set off 34° 42½' N. on the lat. arc; 18° 29' N. 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 level land, through scattering undergrowth.

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

1915 on S. rim;
¼S19 in W. and
S20 in E. half;

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

46.00 Road, brs. NW. to Yucca, and SE. to Castaneta Well.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 17, 18, 19 and 20, marked on brass cap

1915 on S. rim;
T16N R16W in N. half;
S18 in NW.,
S17 in NE.,
S20 in SE. and
S19 in SW. quadrant;

dig pits, 18 X 18 X 12 ins., in each sec., 5½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

24.

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

Chains.

Land, level.
Soil, 3rd rate.
No timber.
Undergrowth, yucca and cacti.

40.00 S.89° 50' E., on a random line, bet. secs. 17 and 20.
Set temp. $\frac{1}{4}$ sec. cor.
80.12 Intersect N. and S. line, 28 lks. S. of the cor. of secs. 16, 17, 20 and 21.
Thence I run
S.89° 58' W., on a true line, bet. secs. 17 and 20.
Over mountainous land, through scattering undergrowth.
Asc. E. slope, 410 ft. to
22.10 Spur, brs. N. Desc. NW. slope, 680 ft.
33.60 Spur, brs. NW. Continue to desc. W. slope.
40.06 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
1915 on S. rim;
 $\frac{1}{4}$ S17 in N. and
S20 in S. half;
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
55.00 Foot of desc., brs. N. and S. Thence over level land.
80.12 The cor. of secs. 17, 18, 19 and 20.
Land, level and mountainous.
Soil, 4th rate.
No timber.
Undergrowth, yucca and cacti.
May 14, 1915: At this cor., I set off 18° 31' N. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 43 $\frac{1}{2}$ ' N. ✓

40.00 S.89° 58' W., on a random line, bet. secs. 18 and 19.
Set temp. $\frac{1}{4}$ sec. cor.
79.30 Intersect W. bdy. of Tp., 23 lks. N. of the cor. of secs. 13, 18, 19 and 24, which is an iron post, marked and witnessed as described by the Surveyor-General.
Thence I run
N.89° 48' E., on a true line, bet. secs. 18 and 19.
Over level land, through scattering undergrowth.
38.30 Road, brs. NW. to Yucca, and SE. to Castaneta Well.
39.30 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
1915 on S. rim;
 $\frac{1}{4}$ S18 in N. and
S19 in S. half;
dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
79.30 The cor. of secs. 17, 18, 19 and 20.
Land, level.
Soil, 3rd rate.
No timber.
Undergrowth, yucca and cacti.

May 14, 1915.

May 15, 1915.
At 8 hrs. 5 m., a.m., l.m.t., I set off 34° 43 $\frac{1}{2}$ ' N. on the lat. arc; 18° 43 $\frac{1}{2}$ ' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 17, 18, 19 and 20.
Thence I run
N.0° 3' W., bet. secs. 17 and 18.

Chains.

40.00 Over level 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
1915 on S. rim;
 $\frac{1}{4}$ S18 in W. and
S17 in E. half;
dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 7, 8, 17 and 18, marked on brass cap
1915 on S. rim;
T16N R16W in N. half;
S7 in NW.,
S8 in NE.,
S17 in SE. and
S18 in SW. quadrant;
dig pits, 18 X 18 X 12 ins., in each sec., $5\frac{1}{2}$ ft. dist. and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
Land, level.
Soil, 3rd rate.
No timber.
Undergrowth, yucca and cacti.

40.00 N.89° 58' E., on a random line, bet. secs. 8 and 17.
Set temp. $\frac{1}{4}$ sec. cor.

80.00 Intersect N. and S. line, 16 lks. S. of the cor. of secs. 8, 9, 16 and 17.
Thence I run
S.89° 51' W., on a true line, bet. secs. 8 and 17.
Over mountainous land, through scattering undergrowth.
Desc. W. slope, 595 ft. to

40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
1915 on S. rim;
 $\frac{1}{4}$ S8 in N. and
S17 in S. half;
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
Thence over level land, brs. N. and S.

50.00 Road, brs. NW. and SE.

80.00 The cor. of secs. 7, 8, 17 and 18.
Land, level and mountainous.
Soil, rocky 4th rate.
No timber.
Undergrowth, yucca and cacti.
May 15, 1915: At this cor., I set off 18° 45 $\frac{1}{2}$ ' N. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 44 $\frac{1}{2}$ ' N.

40.00 S.89° 48' W., on a random line, bet. secs. 7 and 18.
Set temp. $\frac{1}{4}$ sec. cor.

79.38 Intersect W. bdy. of Tp., 14 lks. S. of the cor. of secs. 7, 12, 13 and 18, which is an iron post, marked and witnessed as described by the Surveyor-General.
Thence I run
N.89° 54' E., on a true line, bet. secs. 7 and 18.
Over level land, through scattering undergrowth.

39.38 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
1915 on S. rim;
 $\frac{1}{4}$ S7 in N. and
S18 in S. half;

26.

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

<p>Chains.</p> <p>79.38</p>	<p>dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.</p> <p>The cor. of secs. 7, 8, 17 and 18. Land, level. Soil, 3rd rate. No timber. Undergrowth, yucca and cacti.</p>
<p>22.70</p> <p>40.00</p>	<p>N.0° 3' W., bet. secs. 7 and 8. Over level land, through scattering undergrowth. Road, brs. E. and W.</p> <p>Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap 1915 on S. rim; ½S7 in W. and S8 in E. half;</p> <p>dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.</p>
<p>44.50</p> <p>80.00</p>	<p>Road, brs, NW. and SE.</p> <p>Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 5, 6, 7 and 8, marked on brass cap 1915 on S. rim; T16N R16W in N. half; S6 in NW., S5 in NE., S8 in SE. and S7 in SW. quadrant;</p> <p>and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. Land, level. Soil, 3rd rate. No timber. Undergrowth, yucca and cacti.</p>
<p>40.00</p> <p>80.00</p>	<p>N.89° 51' E., on a random line, bet. secs. 5 and 8. Set temp. ¼ sec. cor.</p> <p>Intersect N. and S. line, 14 lks. N. of the cor. of secs. 4, 5, 8 and 9. Thence I run S.89° 57' W., on a true line, bet. secs. 5 and 8. Over rolling land, through scattering timber and undergrowth.</p>
<p>4.00</p> <p>22.00</p> <p>24.50</p> <p>40.00</p>	<p>Wash, course NW. Asc. slight NE. slope.</p> <p>Telephone line, brs. NW. to Yucca, and SE. to Seneca Ranch.</p> <p>Road, brs. NW. to Yucca, and SE. to Signal.</p> <p>Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap 1915 on S. rim; ½S5 in N. and S8 in S. half;</p> <p>and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.</p>
<p>80.00</p>	<p>The cor. of secs. 5, 6, 7 and 8. No. Land, level. Soil, 3rd rate. Timber, juniper. Undergrowth, yucca and cacti.</p>

May 15, 1915.

Chains.

May 17, 1915.
 At 9 hrs. 58 m., a.m., l.m.t., I set off 34° 45' N. on the lat. arc; 19° 12½' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 5, 6, 7 and 8.

Thence I run
 S.89° 54' W., on a random line, bet. secs. 6 and 7.

40.00 Set temp. ¼ sec. cor.
 79.48 Intersect W. bdy. of Tp., 9 lks. N. of the cor. of secs. 1, 6, 7 and 12, which is an iron post, marked and witnessed as described by the Surveyor-General.

Thence I run
 N.89° 50' E., on a true line, bet. secs. 6 and 7.
 Over rolling land, through scattering undergrowth.

29.50 Enter wash, course SW.
 39.48 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap
 1915 on S. rim;
 ¼S6 in N. and
 S7 in S. half;
 dig pits, 18 X 18 X 12 ins. E. & W. of post 3 ft. dist. & raise mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.

40.00 Road, brs. NW. and SE.
 54.50 Leave wash, course SW. Thence over level land.
 79.48 The cor. of secs. 5, 6, 7 and 8.
 Land, level and rolling.
 Soil, 3rd rate.
 No timber.
 Undergrowth, yucca and cacti.

R. D. A.
May 17, 1915.

May 15, 1915: E. F. S.
 N.0° 3' W., on a random line, bet. secs. 5 and 6.

40.00 Set temp. ¼ sec. cor.
 79.69 Intersect N. bdy. of Tp., 26 lks. W. of the cor. of secs. 5, 6, 31 and 32, which is an iron post, established by I. W. S., as described in Book "A".

Thence I run
 S.0° 8' W., on a true line, bet. secs. 5 and 6.
 Over level land, through scattering undergrowth.

33.90 Road, brs. NW. to Yucca and SE. to Signal.
 34.90 Telephone line, brs. NW. to Yucca and SE. to Seneca Ranch.
 39.69 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap
 1915 on S. rim;
 ¼S6 in W. and
 S5 in E. half;
 dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.

55.70 Wash, course W.
 79.69 The cor. of secs. 5, 6, 7 and 8.
 Land, level.
 Soil, sandy loam, 1st rate.
 No timber.
 Undergrowth, greasewood, yucca, ocotilla and cacti.
 Cracker grass.

E. F. S.
May 15, 1915.

GENERAL DESCRIPTION .

This township is located in the foothills of the Hualpai Mts., being partly in the mountains, and partly in the flats. These flats extend for some distance up all the

Chains.

washes. Rocky, boulder strewn groups of hills occur in isolated positions in the flat, south-west portion of the Tp.

The soil of the flats is sandy, 2nd and 3rd rate, and that of the hills, 3rd and 4th rate.

Cow Creek enters the NE. corner of the Tp., but sinks into the sand a little further down the canyon.

The only settler in the Tp. is Wm. Esham, whose ranch is located in the E. half of sec. 15.

Roads from Planet and Signal cross the Tp. A private telephone line runs from Esham's Ranch to Yucca.

Vegetations is yucca, cat claw, juniper, palo verde, greasewood and cacti.

No evidence of mineral in this Tp.

U. S. Surveyor.

U. S. Translator.

Temporary Titulacion.

For FINAL OATH OF UNITED STATES SURVEYOR.

29

See Book "B."

I, _____, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for _____ bearing date of the _____ day of _____, 191____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____ of the _____ Meridian, in the State of _____, which are represented in the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

U. S. Surveyor.

Subscribed by said _____, and sworn to before me }
 this _____ day of _____, 191____ }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona, February 15, 1917.

The foregoing field notes of the survey of the _____

Subdivision lines of Township 16 North, Range 16 West,
of the Gila and Salt River Base and Meridian, Arizona,

executed by Irving W. Stoddard, U. S. Surveyor, R. D. Armstrong, U. S. Transitman, & Elmer F. Strickler, temporary Transitman, under his special instructions dated December 28, 1914, for Group 41, _____, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Surveyor General.
 of Arizona.

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

Surveyor General.
 of Arizona.