

BOOK "E"
FIELD NOTES

OF THE SURVEY OF THE

Subdivision Lines of

Township 13 North - Range 16 West

of the *Gila & Salt River Base &* Meridian,

In the State of *Arizona*

EXECUTED BY

Irving W. Stoddard, U.S. Surveyor

and

R. D. Armstrong, U.S. 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.

Survey commenced *March 2*, 1915.

Survey completed " *9*, 1915.

Subexecuted under assignment instructions dated Jan. 28, 1915.

2916

2916

1A

Book "E"

BOOK 2916

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3rd Standard Parallel North

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Subdivision of T. 13 N., R. 16 W.

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Chains.

Survey commenced Mar. 2, 1915, and executed jointly by Irving W. Stoddard, U. S. Surveyor, and R. D. Armstrong, U. S. Transitman, with Young and Sons' light mountain transits Nos. 8485 and 8531, with Smith solar attachments. For description of instruments and certificates of approval, see Book "A".

In the following field notes, the initials I. W. S. and R. D. A. refer to Irving W. Stoddard, U. S. Surveyor, and R. D. Armstrong, U. S. Transitman, respectively. Knowing from recent and repeated tests of our instruments on meridians established by observations on Polaris at elongation, that they are in adjustment, we proceed to the subdivision of T. 13 N., R. 16 W.

I. W. S. and R. D. A.

Mar. 2, 1915. I. W. S.

At 8 hrs. 4 m., a.m., l.m.t., I set off $34^{\circ} 25'$ N. on the lat. arc; $7^{\circ} 25'$ S. on the decl. arc; and determine a meridian with the solar at the standard cor. of secs. 35 and 36, on the S. bdy. of the Tp., which is a granite stone, 6 X 10 X 8 ins. above ground, marked and witnessed as described by the Surveyor-General.

Thence I run

N. $0^{\circ} 1'$ W., bet. secs. 35 and 36.

Desc. NW. slope, 30 ft., over rolling land, through scattering undergrowth, to

8.20 Gulch, course SW. Asc. SE. slope, 85 ft. to

17.00 Spur, brs. SW. Desc. NW. slope, 40 ft. to

23.00 Gulch, course SW. Asc. SW. 60 ft. to

31.00 Spur, brs. SW. Thence over rolling land.

40.00 Wash, 150 lks. wide, course SW. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap

1915 on S. rim;

$\frac{1}{4}$ S35 in W. and

S36 in E. half;

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

53.00 Wash, 50 lks. wide, course SW. Asc. SE. slope, 40 ft. to

70.00 Low ridge, brs. NE. and SW.

80.00 Set a lava stone, 16 X 14 X 8 ins., in a mound of stone, on a ledge of rock, for cor. of secs. 25, 26, 35 and 36, marked with 1 notch on S. and 1 notch on E. edge; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

Land, rolling.

Soil, sandy and rocky, 3rd and 4th rate.

No timber.

Undergrowth, greasewood, cocotilla, cat claw and cacti.

East, on a random line, bet. secs. 25 and 36.

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

79.70 Intersect E. bdy. of Tp., 19 lks. N. of the cor. of secs. 25, 30, 31 and 36, which is a stone, established by me, as described in Book "A".

Thence I run

N. $89^{\circ} 52'$ W., on a true line, bet. secs. 25 and 36.

Over rolling land, through scattering undergrowth.

8.50 Spur, brs. SW. Desc. NW. slope, 90 ft. to

38.30 Wash, 150 lks. wide, course SW. Thence over level land.

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

1915 on S. rim;

$\frac{1}{4}$ S25 in N. and

S36 in S. half;

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

Subdivision of T. 13 N., R. 16 W.

Chains.	
60.00	Wash, course S. Asc. slight SE. slope.
65.00	Spur, brs. NE. Desc. NW. slope, 70 ft. to
79.70	The cor. of secs. 25, 26, 35 and 36. Land, level and rolling. Soil, 3rd rate. No timber. Undergrowth, greasewood, yucca, cocatilla and cacti.

	N.0° 1' W., bet. secs. 25 and 26. Over rolling land, through scattering undergrowth.
11.40	Wash, 70 lks. wide, course SW.
22.10	Road, brs. E. to Signal, and W. to Castaneta Well. Asc. SE. slope, 50 ft. to
37.50	Spur, brs. SW. Desc. NW. slope, 50 ft.
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; $\frac{1}{4}$ 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.
65.00	Wash, 10 lks. wide, course SW.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 23, 24, 25 and 26, marked on brass cap 1915 on S. rim; T13N 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 rolling. Soil, sandy, with some clay; 3rd rate. No timber. Undergrowth, greasewood, cocatilla, cat claw, yucca and cacti.

40.00	S.89° 52' E., on a random line, bet. secs. 24 and 25. Set temp. $\frac{1}{4}$ sec. cor.
79.72	Intersect E. bdy. of Tp., 5 lks. S. of the cor. of secs. 19, 24, 25 and 30, which is an iron post, established by me, as described in Book "A". Thence I run N.89° 54' W., on a true line, bet. secs. 24 and 25. Over rolling land, through scattering undergrowth. Desc. NW. slope, 30 ft. to
10.32	Gulch, 30 lks. wide, course SW. Asc. SE. slope, 40 ft. to
21.22	Spur, brs. SW. Desc. NW. 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; $\frac{1}{4}$ 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.
41.32	Wash, 50 lks. wide, course SW. Asc. SE. slope, 60 ft.
50.72	Old road, brs. NE. to Stout's Well, and SW. to Castaneta Well.
57.72	Spur, brs. SW. Desc. NW. slope, 35 ft. to
67.72	Gulch, course SW.
79.72	The cor. of secs. 23, 24, 25 and 26. Land, rolling. Soil, 3rd rate. No timber. Undergrowth, greasewood, yucca, cat claw and cacti.

I. W. S.

Mar. 2, 1915

Subdivision of T. 13 N., R. 16 W.

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Chains.	
	Mar. 4, 1915. R. D. A.
	N. 0° 1' W., bet. secs. 23 and 24.
	Over level land, through scattering 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;
	$\frac{1}{4}$ S23 in W. and
	S24 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. ft. high, W. of cor.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 26 ins. in the ground, for cors. of secs. 13, 14, 23 and 24, marked on brass cap
	1915 on S. rim;
	T13N R16W in N. half;
	S14 in NW.,
	S13 in NE.,
	S24 in SE. and
	S23 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, greasewood, yucca, locatilla and cacti.
	Mar. 4, 1915: At this cor., I set off 6° 36 $\frac{1}{2}$ ' S. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 28' N.

	S. 89° 54' E., on a random line, bet. secs. 13 and 24.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.98	Intersect E. bdy. of Tp., 14 lks. S. of the cor. of secs. 13, 18, 19 and 24, which is an iron post, established by I. W. S., as described in Book "A".
	Thence I run
	West, on a true line, bet. secs. 13 and 24.
	Over level land, through scattering undergrowth.
17.18	Road, brs. NE. to Stout's Well, and SW. to Castaneta Well.
39.99	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 W. 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.
79.98	The cor. of secs. 13, 14, 23 and 24.
	Land, level.
	Soil, 3rd rate.
	No timber.
	Undergrowth, greasewood, yucca, cat claw and cacti.
	Mar. 4, 1915.

	Mar. 6, 1915.
	N. 0° 1' W., bet. secs. 13 and 14.
	Over level land, through scattering 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;
	$\frac{1}{4}$ S14 in W. and
	S13 in E. half;
	and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

Subdivision of T. 13 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. 11, 12, 13 and 14, marked on brass cap
1915 on S. rim;
T13N R16W 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, 1½ ft. high, W. of cor. Pits impracticable.
Land, level.
Soil, 3rd rate.
No timber.
Undergrowth, greasewood, cat claw, yucca and cacti.
-
- 40.00 East, on a random line, bet. secs. 12 and 13.
Set temp. ¼ sec. cor.
80.24 Intersect E. bdy. of Tp., 26 lks. S. of the cor. of secs. 7, 12, 13 and 18, which is an iron post, established by me, as described in Book "A".
Thence I run
S.89° 49' W., on a true line, bet. secs. 12 and 13.
Over level land, through scattering undergrowth.
40.12 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;
¼S12 in N. and
S13 in S. half;
and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
80.24 The cor. of secs. 11, 12, 13 and 14.
Land, level.
Soil, 3rd rate.
No timber.
Undergrowth, greasewood, cat claw, yucca and cacti.
-
- 40.00 N.0° 1' W., bet. secs. 11 and 12.
Over level land, through scattering 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;
¼S11 in W. and
S12 in E. half;
and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
80.00 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 brass cap
1915 on S. rim;
T13N 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.
Soil, 3rd rate.
No timber.
Undergrowth, greasewood, yucca, cat claw and cacti.
-
- N.89° 49' E., on a random line, bet. secs. 1 and 12.

Subdivision of T. 13 N., R. 16 W.

Chains.	
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.20	Intersect E. bdy. of Tp., 5 lks. N. of the cor. of secs. 1, 6, 7 and 12, which is an iron post, established by me, as described in Book "A". Thence I run S. $89^{\circ} 51'$ W., on a true line, bet. secs. 1 and 12. Over level land, through scattering undergrowth.
40.10	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; $\frac{1}{4}$ S1 in N. and S12 in S. half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
80.20	The cor. of secs. 1, 2, 11 and 12. Land, level. Soil, 3rd rate. No timber. Undergrowth, greasewood, cat claw, yucca and cacti. Mar. 6, 1915.

	Mar. 9, 1915. N. $0^{\circ} 1'$ W., on a random line, bet. secs. 1 and 2.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.08	Intersect N. bdy. of Tp., 26 lks. W. of the cor. of secs. 1, 2, 35 and 36, which is an iron post, established by me, as described in Book "A". Thence I run S. $0^{\circ} 10'$ W., on a true line, bet. secs. 1 and 2. Over level land, through scattering undergrowth.
40.08	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 W. and S1 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.
80.08	The cor. of secs. 1, 2, 11 and 12. Land, level. Soil, 3rd rate. No timber. Undergrowth, greasewood, cat claw, yucca and cacti. Mar. 9, 1915. R. D. A.

	Mar. 2, 1915. I. W. S. From the standard cor. of secs. 34 and 35, on the S. bdy. of the Tp., which is a granite stone, 6 X 12 X 8 ins. above ground, marked and witnessed as described by the Surveyor-General, I run N. $0^{\circ} 1'$ W., bet. secs. 34 and 35. Over mountainous land, through scattering undergrowth. Asc. S. slope, 40 ft. to
2.50	Spur, brs. E. Desc. NE. slope, 80 ft. to
5.40	Gulch, course SE. Asc. S. slope, 105 ft. to
10.80	Spur, brs. E. Desc. NE. slope, 100 ft. to
19.00	Gulch, course SE. Asc. S. slope, 50 ft. to
22.40	Spur, brs. E. Desc. NE. slope, 60 ft. to
28.40	Gulch, course SE. Asc. SW. slope, 85 ft. to
34.20	Spur, brs. E. Desc. E. slope, 90 ft.
40.00	Set a granite stone 26 X 14 X 8 ins., 20 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. Pits impracticable.

Subdivision of T. 13 N., R. 16 W.

Chains.	
41.30	Gulch, course E. Asc. S. slope, 185 ft. to
52.10	Spur, brs. E. Desc. NE. slope, 175 ft. to
55.85	Gulch, course E. Asc. SE. slope, 160 ft. to
64.70	Spur, brs. E. Desc. NE. slope, 70 ft. to
73.70	Gulch, course SE. Asc. S. slope, 120 ft. to
76.70	Spur, brs. E. Desc. NE. slope, 75 ft. to
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; T13N R16W in N. half; S27 in NW., S26 in NE., S35 in SE. and S34 in SW. quadrant; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, rocky, 3rd and 4th rate. No timber. Undergrowth, greasewood, cat claw, yucca and cacti. Mar. 2, 1915: At this cor., I set off 7° 22' S. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 26' N.
40.00	East, on a random line, bet. secs. 26 and 35. Set temp. ¼ sec. cor.
79.90	Intersect N. and S. line, 9 lks. N. of the cor. of secs. 25, 26, 35 and 36. Thence I run N. 89° 56' W., on a true line, bet. secs. 26 and 35. Over rolling land, through scattering undergrowth.
10.90	Wash, 70 lks. wide, course SW. Asc. SE. slope, 90 ft. to
11.55	Spur, brs. S. Desc. SW. slope, 35 ft. to
16.00	Asc. SE. slope, 35 ft. to
21.50	Spur, brs. S. Desc. SW. slope, 75 ft.
33.75	Road, brs. N. to Castaneta Well and S.
38.80	Wash, 60 lks. wide, course S.
39.95	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap 1915 on S. rim; ¼ S26 in N. and S35 in S. half; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
45.30	Gulch, course SE. Asc. NE. slope, 240 ft. to
79.90	The cor. of secs. 26, 27, 34 and 35. Land, rolling. Soil, 3rd and 3th rate. No timber. Undergrowth, greasewood, cat claw, yucca and cacti. I. W. S. Mar. 2, 1915.
13.00	Mar. 4, 1915. R. D. A. N. 0° 1' W., bet. secs. 26 and 27. Over mountainous land, through scattering undergrowth. Desc. NE. slope, 70 ft.
19.80	Spur, brs. E. Continue desc.
27.00	Wash, 5 lks. wide, course SE. Asc. SW. slope, 110 ft. to
35.00	Spur, brs. W. Desc. NW. slope, 90 ft. to
40.00	Wash, course E. Asc. SW. slope, 95 ft. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap

Subdivision of T. 13 N., R. 16 W.

7

Chains.

1915 on S. rim;
 1/4 S27 in W. and
 S26 in E. half;
 and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,
 W. of cor. Pits impracticable.

42.50 Spur, brs. SE. Desc. NE. slope, 45 ft. to
 60.00 Wash, 40 lks. wide, course E. Asc. S. slope, 70 ft.
 78.30 From this point, Castaneta Well brs. S. 39° 35' E.
 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;
 T13N 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, mountainous and rolling.
 Soil, 4th rate.
 No timber.
 Undergrowth, greasewood, cat claw, yucca and cacti.

40.00 S. 89° 56' E., on a random line, bet. secs. 23 and 26.
 Set temp. 1/4 sec. cor.
 79.74 Intersect N. and S. line, 2 lks. S. of the cor. of secs.
 23, 24, 25 and 26.

Thence I run
 N. 89° 57' W., on a true line, bet. secs. 23 and 26.
 Over level land, through scattering undergrowth.
 39.87 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;
 and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,
 N. of cor. Pits impracticable.

46.75 From this cor., Castaneta Well brs. S. 5° 16' E.
 Road, brs. N. to Yucca, and S. to Castaneta Well.
 55.75 Wash, 50 lks. wide, course SE. Asc. NE. slope, 70 ft. to
 79.74 The cor. of secs. 22, 23, 26 and 27.
 Land, level and rolling.
 Soil, 3rd rate.
 No timber.
 Undergrowth, greasewood, cat claw, yucca and cacti.

R. D. A.

I. W. S.
 N. 0° 1' W., bet. secs. 22 and 23.
 Over level land, through scattering 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 S22 in W. and
 S23 in E. half;
 and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,
 W. of cor. Pits impracticable.

50.00 Road, brs. NW. and SE. to Castaneta Well.
 55.00 Wash, 80 lks. wide, course SE.
 74.00 Wash, 75 lks. wide, course SW.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the
 ground, for cor. of secs. 14, 15, 22 and 23, marked on
 brass cap

1915 on S. rim;
 T13N R16W in N. half;
 S15 in NW.,
 S14 in NE.;

Chains.	<p>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. No timber. Undergrowth, greasewood, yucca, cat claw and cacti.</p>
40.00	S.89° 57' E., on a random line, bet. secs. 14 and 23. Set temp. $\frac{1}{4}$ sec. cor.
79.85	Intersect N. and S. line, 37 lks. S. of the cor. of secs. 13, 14, 23 and 24. Thence I run S.89° 47' W., on a true line, bet. secs. 14 and 23. Over level land, through scattering undergrowth.
39.92 $\frac{1}{2}$	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap 1915 on S. rim; $\frac{1}{2}$ 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. high, N. of cor.
57.35	Road, brs. N. to Yucca, and S. to Castaneta Well.
74.35	Wash, 60 lks. wide, course SW.
79.85	The cor. of secs. 14, 15, 22 and 23. Land, level. Soil, 3rd rate. No timber. Undergrowth, greasewood, cat claw, yucca and cacti. I. W. S. Mar. 4, 1915.
40.00	Mar. 6, 1915. R. D. A. N.0° 1' W., bet. secs. 14 and 15. 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; $\frac{1}{2}$ S15 in W. and S14 in E. half; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
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; T13N 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, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, level. Soil, 3rd rate. No timber. Undergrowth, greasewood, cat claw, yucca and cacti.
40.00	N.89° 47' E., on a random line, bet. secs. 11 and 14. Set temp. $\frac{1}{4}$ sec. cor.
79.76	Intersect N. and S. line, 37 lks. N. of the cor. of secs. 11, 12, 13 and 14.

Subdivision of T. 13 N., R. 16 W.

9.

Chains.	
39.88	<p>Thence I run N.89° 57' W., on a true line, bet. secs. 11 and 14. 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; $\frac{1}{4}$S11 in N. and S14 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.</p>
63.75	Road, brs. N. to Yucca, and S. to Castaneta Well.
79.76	<p>The cor. of secs. 10, 11, 14 and 15. Land, level, Soil, 3rd rate. No timber. Undergrowth, greasewood, cat claw, yucca and cacti. Mar. 6, 1915: At this cor., I set off 5° 50' S. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 28$\frac{1}{2}$' N. R. D. A.</p>

40.00	<p>I. W. S. N.0° 1' W., bet. secs. 10 and 11. 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; $\frac{1}{4}$S10 in W. and S11 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.</p>
80.00	<p>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; T13N R16W in N. half; S3 in NW., S2 in NE., S11 in SE. and S10 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, greasewood, cat claw, yucca and cacti.</p>

40.00	S.89° 57' E., on a random line, bet. secs. 2 and 11.
79.80	<p>Set temp. $\frac{1}{4}$ sec. cor. Intersect N. and S. line, 2 lks. S. of the cor. of secs. 1, 2, 11 and 12.</p>
39.90	<p>Thence I run N.89° 58' W., on a true line, bet. secs. 2 and 11. 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; $\frac{1}{4}$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.</p>

Chains.
 74.10 Road, brs. N. to Yucca, and S. to Castaneta Well.
 79.80 The cor. of secs. 2, 3, 10 and 11.
 Land, level.
 Soil, 3rd rate.
 No timber.
 Undergrowth, greasewood, cat claw, yucca and cacti.
 I. W. S.
 Mar. 6, 1915.

 Mar. 9, 1915. R. D. A.
 N.0° 1' W., bet. secs. 2 and 3.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.90 Intersect N. bdy. of Tp., 4 lks. E. of the cor. of secs.
 2, 3, 34 and 35, which is an iron post, established by
 me, as described in Book "A".
 Thence I run
 S.0° 3' E., on a true line, bet. secs. 2 and 3.
 Over level land, through scattering undergrowth.
 11.40 Enter road, brs. NW. to Yucca, and S. to Castaneta Well.
 16.50 Leave road, brs. N. and SSE.
 39.90 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;
 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.
 79.90 The cor. of secs. 2, 3, 10 and 11.
 Land, level.
 Soil, 3rd rate.
 No timber.
 Undergrowth, greasewood, yucca, cat claw and cacti.
 R. D. A.
 Mar. 9, 1915.

 Mar. 4, 1915. I. W. S.
 At 8 hrs. 10 m., a.m., l.m.t., I set off 34° 25' N. on the
 lat. arc; 6° 39 $\frac{1}{2}$ ' S. on the decl. arc; and determine a
 meridian with the solar at the standard cor. of secs.
 33 and 34, on the S. bdy. of the Tp., which is an iron
 post, marked and witnessed as described by the Surveyor-
 General.
 Thence I run
 N.0° 2' W., bet. secs. 33 and 34.
 Over mountainous land, through scattering undergrowth.
 Asc. SW. slope, 165 ft. to
 7.95 Spur, brs. SE. Desc. NE. slope, 145 ft. to
 17.30 Gulch, course SE. Asc. SW. slope, 430 ft. to
 37.00 Top of rocky peak on ridge, brs. NW. and SE. Desc. NE. slope,
 260 ft.
 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;
 $\frac{1}{4}$ S33 in W. and
 S34 in E. half;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 W. of cor. Pits impracticable.
 72.00 Head of gulch, course NE. Asc. SE. slope, 50 ft. to
 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

Subdivision of T. 13 N., R. 16 W.

Chains.

1915 on S. rim;
T13N 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, 1 1/2 ft. high,
W. of cor. Pits impracticable.
Land, mountainous.
Soil, rocky 3rd and 4th rate,
No timber.
Undergrowth, greasewood, cat claw, yucca and cacti.

40.00 East, on a random line, bet. secs. 27 and 34.
Set temp. 1/4 sec. cor.
80.02 Intersect N. and S. line, 2 lks. S. of the cor. of secs.
26, 27, 34 and 35.
Thence I run
S. 89° 59' W., on a true line, bet. secs. 27 and 34.
Over mountainous land, through scattering undergrowth,
Asc. E. slope, 170 ft. to
15.90 Spur, brs. N. Desc. NW. slope, 200 ft. to
27.55 Gulch, course N. Asc. NE. slope, 105 ft.
40.01 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 N. and
S34 in S. half;
and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,
N. of cor. Pits impracticable.
49.00 Spur, brs. N. and S. Desc. W. slope, 80 ft. to
59.90 Gulch, course NE. Asc. SE. slope, 110 ft. to
80.02 The cor. of secs. 27, 28, 33 and 34.
Land, mountainous.
Soil, rocky, 3rd and 4th rate.
No timber.
Undergrowth, greasewood, cat claw, yucca and cacti.

N. 0° 2' W., bet. secs. 27 and 28.
Over mountainous land, through scattering undergrowth.
Asc. S. slope, 75 ft. to
4.00 Peak, on ridge, brs. NE. and SW. Desc. NW. slope, 110 ft.
to.
9.70 Asc. SW. slope, 30 ft. to
13.00 Spur, brs. NW. Desc. NW. slope, 230 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 S28 in W. and
S27 in E. half;
and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,
W. of cor. Pits impracticable.
40.90 Gulch, course NE. Thence over rolling land.
65.00 Wash, course SE. Asc. SE. slope, 50 ft. to
80.00 Set a lava stone, 16 X 10 X 4 ins., 3 ins. in the ground,
on solid rock, surrounded by a mound of stone, for cor.
of secs. 21, 22, 27 and 28, marked with 2 notches on
S. and 3 notches on E. edge; and raise a mound of stone,
2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.
Land, rolling and mountainous.
Soil, 3rd and 4th rate.
No timber.
Undergrowth, greasewood, cat claw, yucca and cacti.

12

Subdivision of T. 13 N., R. 16 W.

Chains.	
	N. 89° 59' E., on a random line, bet. secs. 22 and 27.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.06	Intersect N. and S. line, 35 lks. S. of the cor. of secs. 22, 23, 26 and 27.
	Thence I run
	S. 89° 44' W., on a true line, bet. secs. 22 and 27.
	Over rolling land, through scattering undergrowth.
	Asc. SE. slope, 85 ft. to
40.03	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 N. and
	S27 in S. half;
	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
	Asc. broken SE. slope, 160 ft. to
62.65	Spur, brs. S. Desc. W. slope, 70 ft. to
76.00	Wash, 10 lks. wide, course SE.
80.06	The cor. of secs. 21, 22, 27 and 28.
	Land, rolling. Soil, 3rd and 4th rate.
	No timber.
	Undergrowth, greasewood, cat claw, yucca and cacti.
	I. W. S. Mar. 4, 1915.

	Mar. 6, 1916: R. D. A.
	At 7 hrs. 53 m., a.m., l.m.t., I set off 34° 27' N. on the lat. arc; 5° 53 $\frac{1}{2}$ ' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 21, 22, 27 and 28.
	Thence I run
	N. 0° 2' W., bet. secs. 21 and 22.
	Over rolling land, through scattering undergrowth.
5.00	Wash, 10 lks. wide, course SE. Asc. SW. slope, 95 ft. to
35.00	Low divide, 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;
	$\frac{1}{4}$ S21 in W. and
	S22 in E. half;
	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
	Asc. S. slope, 70 ft. to
45.00	Spur, brs. SE. Desc. NE. slope, 75 ft. to
60.00	Asc. SE. slope, 25 ft. to
62.00	Spur, brs. NE. Desc. N. slope, 30 ft. to
64.75	Asc. S. slope, 30 ft. to
70.00	Spur, brs. NE. Desc. W. slope, 85 ft. to
75.00	Wash, 10 lks. wide, course E.
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;
	T13N T16W 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. Pits impracticable.
	Land, mountainous.
	Soil, 4th rate.
	No timber.
	Undergrowth, greasewood, cat claw, yucca and cacti.

Subdivision of T. 13 N., R. 16 W.

Chains	
40.00	N. 89° 44' E., on a random line, bet. secs. 15 and 22. Set temp. $\frac{1}{4}$ sec. cor.
79.88	Intersect N. and S. line, 38 lks. N. of the cor. of secs. 14, 15, 22 and 23. Thence I run
	West, on a true line, bet. secs. 15 and 22. Over rolling land, through scattering undergrowth.
10.90	Wash, 50 lks. wide, course SE.
19.40	Road, brs. NW. and SE. to Castaneta Well.
	Asc. E. slope, 85 ft. to
39.94	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 N. and S22 in S. half;
	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
	Asc. E. slope, 90 ft. to
79.88	The cor. of secs. 15, 16, 21 and 22. Land, rolling. Soil, 4 th rate. No timber. Undergrowth, greasewood, cat claw, yucca and cacti. R. D. A.

	I. W. S. N. 0° 2' W., bet. secs. 15 and 16. Over rolling land, through scattering undergrowth. Asc. SE. slope, 40 ft. to
5.00	Spur, brs. NE. Desc. NE. slope, 110 ft.
34.15	Road, brs. NW. and SE. to Castaneta Well.
40.00	Set a lava stone, 26 X 8 X 8 ins., 20 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. Pits impracticable.
60.00	Foot of desc., brs. NW. and SE. Thence over level land.
64.70	Old road, brs. NW. 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. 9, 10, 15 and 16, marked on brass cap
	1915 on S. rim; T13N 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., $5\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	Land, level and rolling. Soil, 3rd rate. No timber. Undergrowth, greasewood, yucca, cat claw and cacti.
	Mar. 6, 1915: At this cor., I set off 5° 50' S. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 28 $\frac{1}{2}$ ' N.

40.00	East, on a random line, bet. secs. 10 and 15. Set temp. $\frac{1}{4}$ sec. cor.
79.82	Intersect N. and S. line, 7 lks. S. of the cor. of secs. 10, 11, 14 and 15. Thence I run
	S. 89° 57' W., on a true line, bet. secs. 10 and 15. Over level land, through scattering undergrowth.
39.91	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

14 Subdivision of T. 13 N., R. 16 W.

Chains.

- 1915 on S. rim;
 $\frac{1}{2}$ S10 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. Pits impracticable.
- 79.82 The cor. of secs. 9, 10, 15 and 16.
 Land, level.
 Soil, 3rd rate.
 No timber.
 Undergrowth, greasewood, cat claw, yucca and cacti,
 I. W. S.
 Mar. 6, 1915.
-
- Mar. 9, 1915: R. D. A.
 N. $0^{\circ} 2'$ W., bet. secs. 9 and 10.
 Over level land, through scattering 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;
 $\frac{1}{4}$ S9 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, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft.
 high, W. of cor.
- 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 26 ins. in the
 ground, for cor. of secs. 3, 4, 9 and 10, marked on
 brass cap
 1915 on S. rim;
 T13N R16W in N. half;
 S4 in NW.,
 S3 in NE.,
 S10 in SE. and
 S9 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, greasewood, cat claw, yucca and cacti.
-
- R. $89^{\circ} 57'$ E., on a random line, bet. secs. 3 and 10.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 79.70 Intersect N. and S. line, 7 lks. S. of the cor. of secs.
 2, 3, 10 and 11.
 Thence I run
 S. $89^{\circ} 54'$ W., on a true line, bet. secs. 3 and 10.
- 39.85 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;
 $\frac{1}{4}$ S3 in N. and
 S10 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.
- 79.70 The cor. of secs. 3, 4, 9 and 10.
 Land, level.
 Soil, 3rd rate.
 No timber.
 Undergrowth, greasewood, cat claw, yucca and cacti.
-

Subdivision of T. 13 N., R. 16 W.

Chains
 40.00 N.0° 2' W., on a random line, bet. secs. 3 and 4.
 Set temp. $\frac{1}{4}$ sec. cor.
 79.86 Intersect N. bdy. of Tp., 30 lks. W. of the cor. of secs. 3, 4, 33 and 34, which is an iron post, established by me, as described in book "A".
 Thence I run
 S.0° 11' W., on a true line, bet. secs. 3 and 4.
 Over level land, through scattering 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;
 $\frac{1}{4}$ S4 in W. and
 S3 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.
 79.86 The cor. of secs. 3, 4, 9 and 10.
 Land, level.
 Soil, 3rd rate.
 No timber.
 Undergrowth, greasewood, cat claw, yucca and cacti.
 R. D. A.
 Mar. 9, 1915.

Mar. 4, 1915: I. W. S.
 From the standard cor. of secs. 32 and 33, on the S. bdy. of the Tp., which is an iron post, marked and witnessed as described by the Surveyor-General, I run
 N.0° 2' W., bet. secs. 32 and 33.
 Over broken land, through scattering 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;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 53.50 Gulch, course SW. Asc. SE. slope, 50 ft. to
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 28, 29, 32 and 33, marked on brass cap
 1915 on S. rim;
 T13N R16W in N. half;
 S29 in NW.,
 S28 in NE.,
 S33 in SE. and
 S32 in SW. quadrant;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 Land, rolling, and broken
 Soil, sandy and rocky, 3rd and 4th rate.
 No timber.
 Undergrowth, greasewood, yucca, cat claw and cacti.

40.00 East on a random line, bet. secs. 28 and 33.
 Set temp. $\frac{1}{4}$ sec. cor.
 80.04 Intersect N. and S. line, 11 lks. S. of the cor. of secs. 27, 28, 33 and 34.
 Thence I run
 S.89° 55' W., on a true line, bet. secs. 28 and 33.
 Over rolling and mountainous land, through scattering undergrowth.
 1.50 Ridge, brs. NE. and SW. Desc. NW. slope, 75 ft. to
 15.00 Gulch, course NE. Asc. NE. slope, 60 ft.

Chains.

- 40.02 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;
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
- 41.95 Spur, brs. NE. Desc. NW. slope, 40 ft. to
- 45.35 Gulch, course NE. Asc. NE. slope, 120 ft. to
- 55.00 Ridge, brs. NW. and SE. Desc. SW. slope, 75 ft. to
- 65.00 Head of gulch, course SW. Thence over rolling land.
- 80.04 The cor. of secs. 28, 29, 32 and 33.
Land, rolling and mountainous.
Soil, rocky, 3rd and 4th rate.
No timber.
Undergrowth, greasewood, cat claw, yucca and cacti.
Mar. 4, 1915: At this cor., I set off $6^{\circ} 36\frac{1}{2}'$ S. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is $34^{\circ} 26'$ N.
Mar. 4, 1915.
-
- Mar. 5, 1915: At 7 hrs. 58 m., a.m., l.m.t., I set off $34^{\circ} 26'$ N. on the lat. arc; $6^{\circ} 16'$ S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 28, 29, 32 and 33.
Thence I run
N. $0^{\circ} 2'$ W., bet. secs. 28 and 29.
Over rolling and mountainous land, through scattering undergrowth.
- .10 Gulch, course SW. Asc. S. slope, 300 ft.
- 17.80 Ridge, brs. NE. and SW. Asc. SW. slope.
- 21.40 Spur, brs. W. Thence along W. slope.
- 35.00 Ridge, brs. NW. and SE. Desc. NE. slope, 115 ft.
- 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;
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
- 55.00 Head of gulch, course E. Asc. SE. slope, 150 ft. to
- 79.00 Peak on ridge, brs. NE. and SW. Desc. N. slope, 20 ft. to
- 80.00 Set a basalt stone $18 \times 10 \times 6$ ins., 3 ins. in the ground, on solid rock, surrounded by a mound of stone, for cor. of secs. 20, 21, 28 and 29; marked with 4 notches on E. and 2 notches on S. edge; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
Land, rolling and mountainous.
Soil, rocky, 3rd and 4th rate.
No timber.
Undergrowth, greasewood, cat claw, yucca and cacti.
-
- N. $89^{\circ} 55'$ E., on a random line, bet. secs. 21 and 28.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.06 Intersect N. and S. line, 19 lks. S. of the cor. of secs. 21, 22, 27 and 28.
Thence I run
S. $89^{\circ} 47'$ W., on a true line, bet. secs. 21 and 28.
Over rolling land, through scattering undergrowth.
- 40.03 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;
 $\frac{1}{4}$ 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.

Subdivision of T. 13 N., R. 16 W.

Chains.	<p>Asc. SW. slope, 150 ft. to 73.80 Ridge, brs. NE. and SW. Thence along N. slope. 80.06 The cor. of secs. 20, 21, 28 and 29. Land, rolling. Soil, rocky, 3rd and 4th rate. No timber. Undergrowth, greasewood, cat claw, yucca and cacti. Mar. 5, 1915.</p>

24.70 40.00 46.00 72.20 76.15 80.00	<p>Mar. 6, 1916: At 7 hrs. 54 m., a.m., l.m.t., I set off 34° 27' N. on the lat. arc; 5° 53½' 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 rolling land, through scattering undergrowth. Desc. N. slope, 185 ft. to Gulch, course NW. Asc. SW. slope, 120 ft. Set a basalt stone, 12 X 8 X 6 ins., 4 ins. in the ground, surrounded by a mound of stone, for ¼ sec. cor., mark- ed ¼ on W. face; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. Ridge, brs. NW. and SE. Desc. NW. slope, 160 ft. to Gulch, course SW. Asc. S. slope, 70 ft. to Spur, brs. SW. 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; T13N R16W 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, 1½ ft. high, W. of cor. Pits impracticable. Land, rolling. Soil, sandy, 3rd rate. No timber. Undergrowth, greasewood, ocotilla, yucca and cacti.</p>

40.00 79.98 7.25 13.50 20.00 31.00 39.99 65.00 79.98	<p>N. 89° 47' E., on a random line, bet. secs. 16 and 21. Set temp. ¼ sec. cor. Intersect N. and S. line, 7 lks. S. of the cor. of secs. 15, 16, 21 and 22. Thence I run S. 89° 44' W., on a true line, bet. secs. 16 and 21. Over rolling land, through scattering undergrowth. Asc. SE. slope, 35 ft. to Spur, brs. NE. Desc. NW. slope. to Gulch, course NE. Asc. NE. slope, 75 ft. to Spur, brs. NE. Thence along N. slope. Spur, brs. N. Desc. W. slope, 120 ft. to 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 S16 in N. and S21 in S. half; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable. Thence over rolling land. Touch road, brs. NW. and NE. Thence along N. slope. The cor. of secs. 16, 17, 20 and 21. Land, rolling. Soil, 3rd rate. No timber. Undergrowth, greasewood, ocotilla, yucca and cacti. I. W. S. Mar. 6, 1916.</p>

Chains.

Mar. 9, 1915: R. D. A.

At 8 hrs. 6 m., a.m., l.m.t., I set off $34^{\circ} 28'$ N. on the lat. arc; $4^{\circ} 43\frac{1}{2}'$ S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 16, 17, 20 and 21.

Thence I run

N. $0^{\circ} 2'$ W., bet. secs. 16 and 17.

Over rolling land, through scattering undergrowth.

5.00 Old road, brs. E. and W.

22.50 Desc. cliffs, 50 ft. high, br. E. and W.

38.00 Wash, 10 lks. wide, course NW.

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;

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

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

1915 on S. rim;

T13N 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, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

Land, rolling.

Soil, 3rd rate.

No timber.

Undergrowth, greasewood, cacti, yucca and cat claw.

N. $89^{\circ} 44'$ E., on a random line, bet. secs. 9 and 16.

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

80.00 Intersect N. and S. line, 14 lks. N. of the cor. of secs. 9, 10, 15 and 16.

Thence I run

S. $89^{\circ} 50'$ W., on a true line, bet. secs. 9 and 16.

Over level land, through scattering undergrowth.

25.50 Road, brs. ESE. and WNW.

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;

$\frac{1}{4}$ S9 in N. and

S16 in S. half;

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

68.50 Wash, 50 lks. wide, course N.

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

Land, level.

Soil, 3rd rate.

No timber.

Undergrowth, greasewood, cat claw, yucca and cacti.

R. D. A.

I. W. S.

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

Over level land, through scattering undergrowth.

15.00 Wash, course W.

35.00 Old road, brs. NW. and SE. to Castaneta Well.

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 W. and

S9 in E. half;

Subdivision of T. 13 N., R. 16 W. 19.

Chains.

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. Pits impracticable.

44.00 Wash, course SW.

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;
T13N R16W in N. half;
S5 in NW.,
S4 in NE.,
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.
Soil, 3rd rate.
No timber.
Undergrowth, greasewood, cat claw, yucca and cacti.
I. W. S.

R. D. A.
N. 89° 50' E., on a random line, bet. secs. 4 and 9.

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

80.26 Intersect N. and S. line, 19 lks. N. of the cor. of secs. 3, 4, 9 and 10.

Thence I run

40.13 S. 89° 58' W., on a true line, bet. secs. 4 and 9. Over level land, through scattering undergrowth. 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

1915 on S. rim;
 $\frac{1}{4}$ S4 in N. and
S9 in S. half;

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

80.26 The cor. of secs. 4, 5, 8 and 9.
Land, level.
Soil, 3rd rate.
No timber.
Undergrowth, greasewood, cat claw, yucca and cacti.
Mar. 9, 1915: At this cor., I set off 4° 40' S. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 29 $\frac{1}{2}$ ' N.
R. D. A.

I. W. S.
N. 0° 2' W., on a random line, bet. secs. 4 and 5.

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

79.73 Intersect N. bdy. of Tp., 35 lks. W. of the cor. of secs. 4, 5, 32 and 33, established by R. D. A., as described in Book "A".

Thence I run

39.73 S. 0° 13' W., on a true line, bet. secs. 4 and 5. Over level land, through scattering undergrowth. Set an iron post, 3 ft. long, 1 in. diam., 15 ins. in the ground, on bed rock, surrounded by a mound of stone, for $\frac{1}{2}$ sec. cor., marked on brass cap

1915 on S. rim;
 $\frac{1}{4}$ S5 in W. and
S4 in E. half;

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

45.33 Wash, course SW.

Chains. 79.73	<p>The cor. of secs. 4, 5, 8 and 9. Land, level. Soil, 3 rd rate. No timber. Undergrowth, greasewood, cat claw, yucca and cacti. Mar. 9, 1915.</p> <p>-----</p> <p>Mar. 5, 1915. From the standard cor. of secs. 31 and 32, on the S. bdy. of the Tp., which is an iron post, marked and witnessed as described by the Surveyor-General, I run N.0° 3' W., bet. secs. 31 and 32. Desc. NW. slope, 270 ft., over mountainous land, through scattering undergrowth, to 20.50 Gulch, course W. Asc. S. slope, 175 ft. to 35.00 Desc. NW. slope, 30 ft. to 39.40 Gulch, course W. Asc. SW. slope, 15 ft. 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; $\frac{1}{4}$S31 in W. and S32 in E. half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.</p> <p>41.00 Spur, brs. W. Desc. N. slope, 185 ft. to 58.00 Gulch, course NW. Asc. SW. slope, 25 ft. to 70.00 Spur, brs. NW. Desc. NW. slope, 25 ft. to 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; T13N R16W in N. half; S30 in NW., S29 in NE., S32 in SE. and S31 in SW. quadrant; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, rocky 4th rate. No timber. Undergrowth, greasewood, cat claw, yucca and cacti. Mar. 5, 1915: At this cor., I set off 6° 13$\frac{1}{2}$' S. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 26' N.</p> <p>-----</p> <p>East, on a random line, bet. secs. 29 and 32. 40.00 Set temp. $\frac{1}{4}$ sec. cor. 79.80 Intersect N. and S. line, 23 lks. S. of the cor. of secs. 28, 29, 32 and 33. Thence I run S.89° 50' W., on a true line, bet. secs. 29 and 32. Over mountainous land, through scattering undergrowth. .60 Gulch, course S. Asc. E. slope, 95 ft. to 12.30 Spur, brs. S. Desc. SW. slope, 155 ft. to 32.60 Head of gulch, course S. Asc. SE. slope, 170 ft. 39.90 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 N. and S32 in S. half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable. 55.60 Ridge, brs. NE. and SW. Desc. W. slope, 345 ft. to 79.80 The cor. of secs. 29, 30, 31 and 32.</p>
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Chains	<p>Land, mountainous. Soil, rocky, 3rd and 4th rate. No timber. Undergrowth, greasewood, cat claw, yucca and cacti.</p> <hr/> <p>West, on a random line, bet. secs. 30 and 31. 40.00 Set temp. $\frac{1}{4}$ sec. cor. 80.16 Intersect W. bdy, or Tr., 14 lks. S. 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 S. $89^{\circ} 54'$ E., on a true line, bet. secs. 30 and 31. Over rolling land, through scattering undergrowth. 32.15 Wash, 30 lks. wide, course NW. 40.16 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; $\frac{1}{2}$S30 in N. and S31 in S. half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable. 50.15 Asc. SW. slope, 70 ft. to 60.15 Spur, brs. NW. Desc. NE. slope, 30 ft. to 73.15 Gulch, course NW. Asc. W. slope, 40 ft. to 80.16 The cor. of secs. 29, 30, 31 and 32. Land, rolling. Soil, 3rd and 4th rate. No timber. Undergrowth, greasewood, cat claw, yucca and cacti.</p> <hr/> <p>N. $0^{\circ} 3'$ W., bet. secs. 29 and 30. Over rolling land, through scattering undergrowth. 30.00 Gulch, course W. Asc. SW. 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; $\frac{1}{2}$S30 in W. and S29 in E. half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Asc. slight SW. slope to 56.50 Spur, brs. NW. Desc. NE. slope, 125 ft. to 69.90 Gulch, course SW. Asc. S. slope, 145 ft. to 77.15 Spur, brs. SW. Desc. NE. slope, 20 ft. to 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 19, 20, 29 and 30, marked on brass cap 1915 on S. rim; T13N R16W in N. half; S19 in NW., S20 in NE., S29 in SE. and S30 in SW. quadrant; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, rolling and level. Soil, sandy, 3rd rate. No timber. Undergrowth, greasewood, cat claw, yucca and cacti.</p> <hr/>
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Chains.	N.89° 50' E., on a random line, bet. secs. 29 and 20.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.92	Intersect N. and S. line, 2 lks. S. of the cor. of secs. 20, 21, 28 and 29, Thence I run
	S.89° 49' W., on a true line, bet. secs. 20 and 29.
	Asc. NE. slope, 55 ft., over rolling land, through scattering undergrowth, to
15.12	Ridge, brs. NW. and SE. Desc. SW. slope, 150 ft.
39.96	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; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
54.90	Gulch, course SW. Asc. SE. slope, 50 ft. to
79.92	The cor. of secs. 19, 20, 29 and 30. Land, rolling. Soil, sandy, 3rd rate. No timber. Undergrowth, greasewood, cat claw, yucca and cacti. Mar. 5, 1915.

	Mar. 8, 1915. At 7 hrs. 54 m., a.m., l.m.t., I set off 34° 27' N. on the lat. arc; 5° 6 $\frac{1}{2}$ ' 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.89° 54' W., on a random line, bet. secs. 19 and 30.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.96	Intersect W. bdy. of Tp., 37 lks. N. of the cor. of secs. 19, 24, 25 and 30, which is a stone, 12 X 6 X 3 ins. above ground, marked and witnessed as described by the Surveyor-General.
	Thence I run
	N.89° 50' E., on a true line, bet. secs. 19 and 30.
	Over rolling land, through scattering undergrowth.
39.96	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; $\frac{1}{4}$ 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. Pits impracticable.
47.86	Wash, course NW. Asc. slight W. slope.
76.96	Spur, brs. NW.
79.96	The cor. of secs. 19, 20, 29 and 30. Land, level and rolling. Soil, sandy, 3rd rate. No timber. Undergrowth, greasewood, cat claw, yucca and cacti.

	N.0° 3' W., bet. secs. 19 and 20.
	Over rolling and mountainous land, through scattering undergrowth.
	Desc. NE. slope, 75 ft. to
14.00	Gulch, course NW. Asc. SW. slope, 100 ft. to
21.00	Spur, brs. NW. Desc. NE. slope, 90 ft.
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; $\frac{1}{4}$ S19 in W. and S20 in E. half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
43.00	Gulch, course NW. Asc. SW. slope, 70 ft. to

Chains.

51.00 Spur, brs. NW. Desc. broken NW. slope, 90 ft. to
 58.30 Gulch, course NW. Road in this gulch, brs. NW. and E.
 Asc. SW. slope, 55 ft. to
 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;
 T13N R16W in N. half;
 S18 in NW.,
 S17 in NE.,
 S20 in SE. and
 S19 in SW. quadrant;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor. Pits impracticable.
 Land, rolling.
 Soil, sandy, 3rd rate.
 No timber.
 Undergrowth, greasewood, cat claw, yucca and cacti.

40.00 N. 89° 49' E., on a random line, bet. secs. 17 and 20.
 Set temp. ¼ sec. cor.
 80.00 Intersect N. and S. line at the cor. of secs. 16, 17,
 20 and 21.
 Thence I run
 S. 89° 49' W., on a true line, bet. secs. 17 and 20.
 Over rolling land, through scattering undergrowth.
 18.60 Road, brs. NE. and SW.
 22.30 Same road, brs. NW. and SE.
 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;
 ¼ S17 in N. and
 S20 in S. half;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 N. of cor. Pits impracticable.
 42.60 Same road, brs. NE. and SW.
 63.00 Gulch, course S. Asc. SE. slope, 80 ft. to
 71.00 Spur, brs. S. Desc. SW. slope, 95 ft. to
 80.00 The cor. of secs. 17, 18, 19 and 20.
 Land, rolling.
 Soil, sandy, 3rd rate.
 No timber.
 Undergrowth, greasewood, cat claw, yucca and cacti.
 Mar. 8, 1915: At this cor., I set off 5° 3½' S. on the
 decl. arc; and at apparent noon, I observe the sun on
 the meridian; the resulting lat. is 34° 28' N.

40.00 S. 89° 50' W., on a random line, bet. secs. 18 and 19.
 Set temp. ¼ sec. cor.
 80.10 Intersect W. bdy. of Tp., 28 lks. S. of the cor. of secs.
 13, 18, 19 and 24, which is a stone, 10 X 10 X 4 ins.
 above ground, marked and witnessed as described by the
 Surveyor-General.
 Thence I run
 S. 89° 58' E., on a true line, bet. secs. 18 and 19.
 Asc. slight W. slope, over rolling land, through scattering
 undergrowth, to
 2.00 Spur, brs. NW. Desc. NE. slope, 120 ft.
 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;
 ¼ S18 in N. and
 S19 in S. half;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor. Pits impracticable.

Chains.	
55.00	Gulch, course NW.
55.80	Road, brs. NW. and SE. Asc. SW. slope, 60 ft. to
80.10	The cor. of secs. 17, 18, 19 and 20.
	Land, rolling.
	Soil, sandy, 3rd rate.
	No timber.
	Undergrowth, greasewood, cat claw, yucca and cacti.

	N.0° 3' W., bet. secs. 17 and 18.
	Over rolling, land, through scattering undergrowth.
	Asc. SW. slope, 120 ft. to
15.00	Ridge, brs. NE. and SW. Desc. N. slope, 220 ft.
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; $\frac{1}{2}$ S18 in W. and S17 in E. half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
46.50	Gulch, course NW. Asc. SW. slope, 165 ft. to
70.00	Spur, brs. NW. Desc. NE. slope, 145 ft. to
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; T13N R16W in N. half; S7 in NW., S8 in NE., S17 in SE. and S18 in SW. quadrant; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
	Land, rolling.
	Soil, sandy, 3rd rate.
	No timber.
	Undergrowth, greasewood, cat claw, yucca and cacti.
	Mar. 8, 1915.

	Mar. 9, 1915: At 8 hrs. 13 m., a.m., l.m.t., I set off 34° 28 $\frac{1}{2}$ ' N. on the lat. arc; 4° 43 $\frac{1}{2}$ ' S; on the decl. arc; and determine a meridian with the solar at the cor. of secs. 7, 8, 17 and 18.
	Thence I run
	N.89° 49' E., on a random line, bet. secs. 8 and 17.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.04	Intersect N. and S. line, 9 lks. S. of the cor. of secs. 8, 9, 16 and 17.
	Thence I run
	S.89° 45' W., on a true line, bet. secs. 8 and 17.
	Over broken land, through scattering undergrowth.
37.05	Spur, brs. NW. Desc. W. slope, 40 ft.
40.02	Point for $\frac{1}{4}$ sec. cor. falls on solid ledge of rim rock, 6 ft. high. Marka cross at the exact point, and $\frac{1}{2}$ S on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
45.55	Gulch, course N. Asc. NE. slope, 120 ft. to
67.30	Spur, brs. N. Desc. NW. slope, 115 ft. to
75.04	Gulch, course N. Asc. NE. slope, 35 ft. to
80.04	The cor. of secs. 7, 8, 17 and 18.
	Land, rolling and broken.
	Soil, sandy and rocky, 3rd and 4th rate.
	No timber.
	Undergrowth, greasewood, cat claw, yucca and cacti.

Chains.

40.00 N. 89° 58' W., on a random line, bet. secs. 7 and 18.
Set temp. $\frac{1}{4}$ sec. cor.

80.04 Intersect . W. bdy. of Tp., 40 lks. N. 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° 45' E., on a true line, bet. secs. 7 and 18.
Over gently rolling land, through scattering undergrowth.

40.04 Gulch, 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
1915 on S. rim;
 $\frac{1}{4}$ S7 in N. and
S18 in S. half;
and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
Asc. W. slope, 260 ft. to
71.50 Rim rock, brs. NW. and SE.
72.45 Spur, brs. NW. Desc. NE. slope, 145 ft. to
80.04 The cor. of secs. 7, 8, 17 and 18.
Land, rolling and mountainous.
Soil, sandy and rocky, 3rd and 4th rate.
No timber.
Undergrowth, greasewood, cat claw, yucca and cacti.
Mar. 9, 1915: At this cor., I set off 4° 40' S. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 28 $\frac{1}{2}$ ' N.
Mar. 9, 1915.

Mar. 8. 1915.
N. 0° 3' W., bet. secs. 7 and 8.
Over rolling land, through scattering undergrowth.

11.00 Wash, course W.
25.00 Wash, course W.
40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
1915 on S. rim;
 $\frac{1}{4}$ S7 in W. and
S8 in E. half;
and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

43.50 Enter wash, course W.
46.50 Leave wash, course S.
80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 5, 6, 7 and 8, marked on brass cap
1915 on S. rim;
T13N R16W in N. half;
S6 in NW.,
S5 in NE.,
S8 in SE. and
S7 in SW. quadrant;
and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
Land, rolling.
Soil, sandy, 3rd rate.
No timber.
Undergrowth, greasewood, cat claw, yucca and cacti.
Mar. 8, 1915.

Mar. 9, 1915.
N. 89° 45' E., on a random line, bet. secs. 5 and 8.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
80.00 Intersect N. and S. line, 5 lks. N. of the cor. of secs. 4, 5, 8 and 9.
Thence I run
✓ S. 89° 47' W., on a true line, bet. secs. 5 and 8.
Over level land, through scattering undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the

Subdivision of T. 13 N., R. 16 W.

Chains.

- ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
1915 on S. rim;
 $\frac{1}{4}$ S5 in N. and
S8 in S. half;
and raise amound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
N. of cor. Pits impracticable.
- 41.50 Old road, brs. NW. and SE. to Castaneta Well.
- 80.00 The cor. of secs. 5, 6, 7 and 8.
Land, level.
Soil, sandy, 3rd rate.
No timber.
Undergrowth, greasewood, cat claw, yucca and cacti.
-
- S. $89^{\circ} 45'$ W., on a random line, bet. secs. 6 and 7.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.11 Intersect W. bdy. of Tp., 12 lks. S. 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. $89^{\circ} 50'$ E., on a true line, bet. secs. 6 and 7.
Over level land, through scattering undergrowth.
- 24.30 Enter wash, course SW.
- 36.30 Leave wash, course W.
- 40.11 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;
 $\frac{1}{4}$ S6 in N. and
S7 in S. half;
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
N. of cor. Pits impracticable.
- 80.11 The cor. of secs. 5, 6, 7 and 8.
Land, level.
Soil, sandy, 3rd rate.
No timber.
Undergrowth, greasewood, cat claw, yucca and cacti.
-
- N. $0^{\circ} 3'$ W., on a random line, bet. secs. 5 and 6.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 79.80 Intersect N. bdy. of Tp., 16 lks. W. of the cor. of secs.
5, 6, 31 and 32, which is an iron post, established
by R. D. A., as described in Book "A".
Thence I run
S. $0^{\circ} 4'$ W., on a true line, bet. secs. 5 and 6.
Over level land, through scattering undergrowth.
- 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;
 $\frac{1}{4}$ S6 in W. and
S5 in E. half;
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
W. of cor. Pits impracticable.
- 54.80 Wash, course SW.
- 79.80 The cor. of secs. 5, 6, 7 and 8.
Land, level.
Soil, sandy, 3rd rate.
No timber.
Undergrowth, greasewood, cat claw, yucca and cacti.
- I. W. S.
Mar. 9, 1915.
-

Subdivision of T. 13 N.. R. 16 W.

Chains.

GENERAL DESCRIPTION.

The township is a rolling and nearly level mesa, except for the SW. portion, which is rough and mountainous, containing Castaneta Peaks.

The soil on the flats is sandy, and in the SW. portion, rocky.

Vegetation consists of all kinds of cacti, with but very little grass.

No water in the township, except at Castaneta Well, in sec. 26. There are no settlers.

T. 13 N. R. 16 W.

U. S. G. S. 1880.

BOOK 2916
28 For

FINAL OATH OF UNITED STATES SURVEYOR.

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 13 North, Range 16 West,

executed by Irving W. Stoddard, U. S. Surveyor, & R. D. Armstrong, U. S. Transitman, under his special instructions dated _____ December 28, 1914, for Group 411____, 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.~~