

BOOK "C"
FIELD NOTES

OF THE SURVEY OF THE

Subdivision Lines of

Township 13 North - Range 14 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, ~~pursuant to authority contained in the Act of~~

~~Congress dated~~, 191

Survey commenced *Feb. 14*, 1915

Survey completed " *25*, 1915

and executed under assignment instructions dated Jan. 28, 1915

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Book "C"

BOOK 2914

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3rd Standard Par. North

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

1B

Chains.

Survey commenced Feb. 14, 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 upon meridians established by observation on Polaris at elongation, that they are in adjustment, we proceed to the subdivision of T. 13 N., R. 14 W.

I. W. S. & R. D. A.

R. D. A.

From the standard cor. of secs. 35 and 36, 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° 1' W., bet. secs. 35 and 36.

Over rolling land, through scattering undergrowth.

- 3.20 Spur, brs. W.NW. Desc. N. slope, 75 ft. to
 14.00 Wash, 10 lks. wide, course NW.
 23.00 Old road, brs. NW. to Signal, and SE. to Alamo.
 31.00 Wash, 5 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;
 $\frac{1}{2}$ 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.
 51.50 Wash, course NNW.
 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;
 T13NR14W 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, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 Land, rolling.
 Soil, 3rd and 4th rate; granite base.
 No timber.
 Undergrowth, cat claw, palo verde, greasewood, yucca and cacti.

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

- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.94 Intersect E. bdy. of the Tp., 23 lks. S. of the cor. of secs. 25, 30, 31 and 36, 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. 25 and 36.
 Through scattering undergrowth. Desc. SW. slope, 175 ft. to
 14.45 Wash, 20 lks. wide, course NW. Asc. NE. slope, 75 ft. to
 21.95 Spur, brs. NW. Desc. SW. slope, 105 ft. to
 39.97 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;
 $\frac{1}{2}$ 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.

Chains.

- Desc. SW. slope to
 41.15 Wash, 40 lks. wide, course NW. Asc. NE. slope, 20 ft. to
 48.45 Spur, brs. NW. Desc. SW. slope, 70 ft. to
 55.95 Wash, 50 lks. wide, course NW. Asc. E. slope, 75 ft. to
 79.94 The cor. of secs. 25, 26, 35 and 36.
 Land, rolling and mountainous.
 Soil, 4th rate.
 No timber.
 Undergrowth, greasewood, cat claw and cacti.
-
- N. 0° 1' W., bet. secs. 25 and 26.
 Over rolling land, through scattering undergrowth.
 10.00 Wash, 30 lks. wide, course NE.
 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.
 Desc. gentle N. slope.
 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;
 T13NR14W 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, rolling.
 Soil, 3rd and 4th rate.
 No timber.
 Undergrowth, greasewood, yucca, and cacti.
 Feb. 14: At this cor., I set off $13^{\circ} 9\frac{1}{2}'$ S. on the decl.
 arc; and at apparent noon, I observe the sun on the
 meridian; the resulting lat. is $34^{\circ} 26'$ N.
 R. D. A. Feb. 14, 1915.
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- Feb. 15, 1915: I. W. S.
 N. $89^{\circ} 50'$ E., on a random line, bet. secs. 24 and 25.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.00 Intersect E. bdy. of Tp., 30 lks. N. of the cor. of secs.
 19, 24, 25 and 30, which is an iron post, established
 by me, as described in Book "A".
 Thence I run
 N. $89^{\circ} 57'$ W., on a true line, bet. secs. 24 and 25.
 Over rolling land, through scattering undergrowth.
 10.00 Desc. NW. slope, 140 ft. to
 17.30 Ravine, course SW. Asc. SE. slope, 40 ft. to
 22.75 Spur, brs. SW. Desc. NW. slope, 145 ft. to
 34.55 Ravine, course NW.
 40.00 Same ravine, course 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;
 $\frac{1}{4}$ 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.
 Continue down ravine.
 50.00 Wash, 8 chs. wide, course NW.
 75.00 Wash, 60 lks. wide, course N. Road in wash, brs. N. to
 Signal, and W. to Alamo.

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

3.

Chains. 80.00	The cor. of secs. 23, 24, 25 and 26. Land, rolling. Soil, sandy and rocky, 3rd rate. No timber. Undergrowth, cat claw, greasewood, palo verde and cacti. I. W. S. Feb. 15, 1915.
4.00	Feb. 14, 1915: R. D. A. N.0° 1' W., bet. secs. 23 and 24. Over rolling land, through scattering undergrowth. Road, brs. W. to Alamo, and E. to Signal.
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; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
53.50	Wash, 40 lks. wide, course NE.
60.50	Old road, brs. NE. to Signal, and SW. to Alamo.
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; T13NR14W 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, rolling. Soil, 3rd and 4th rate, granite base. No timber. Undergrowth, greasewood, palo verde, yucca and cacti.
40.00	S.89°57' E., on a random line, bet. secs. 13 and 24. Set temp. $\frac{1}{4}$ sec. cor.
79.96	Intersect E. bdy. of Tp., 33 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 S.89° 49' W., on a true line, bet. secs. 13 and 24. Over rolling land, through scattering undergrowth.
17.00	Wash, 5 lks. wide, course NE.
38.00	Wash, 5 lks. wide, course NE.
39.98	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.
48.00	Spur, brs. NE. Desc. NW. slope, 130 ft. to
61.50	Road, brs. NE. to Signal, and SW. to Alamo, in wash, 100 lks. wide, course NE. Asc. SE. slope, 45 ft. to mesa.
75.30	Old road, on mesa, brs. NE. to Signal, and SW. to Alamo.
79.90	Wash, 10 lks. wide, course NE.
79.96	The cor. of secs. 13, 14, 23 and 24. Land, rolling. Soil, 3rd and 4th rate, granite base. No timber. Undergrowth, greasewood, palo verde, yucca and cacti. Feb. 14, 1915.

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

Chains.	
	Feb. 17, 1915: At 8 hrs. 10 m., a.m., l.m.t., I set off 34° 28' N. on the lat. arc; 12° 10' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 13, 14, 23 and 24.
	Thence I run
	N. 0° 1' W., bet. secs. 13 and 14.
	Over rolling mesa, through scattering undergrowth.
.20	Wash, 20 lks. wide, course NE.
10.20	Trail, brs. NE. and SW.
15.00	Old road, brs. NE. to Signal, and SW: to Castaneta Well.
16.00	From this point, Roupley's Well brs. E. 5 chs. dist.
30.00	Wash, 50 lks. wide, course NE.
31.50	Spur, brs. NE. Desc. NW. slope.
39.00	Spur, brs. E. Desc. N. 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;
	$\frac{1}{4}$ 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.
	Over rolling mesa land.
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;
	T13NR14W in N. half;
	S11 in NW.,
	S12 in NE.,
	S13 in SE. and
	S14 in SW. quadrant;
	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
	W. of cor. Pits impracticable.
	Land, rolling.
	Soil, 3rd and 4th rate.
	No timber.
	Undergrowth, palo verde, mesquite, yucca and cacti.

	N. 89° 49' E., on a random line, bet. secs. 12 and 13.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.82	Intersect E. bdy. of Tp., at 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° 49' W., on a true line, bet. secs. 12 and 13.
	Over rolling 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
	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.
79.82	The cor. of secs. 11, 12, 13 and 14.
	Land, level and rolling.
	Soil, 4th rate.
	No timber.
	Undergrowth, greasewood, cat claw, palo verde, yucca and cacti.

	N. 0° 1' W., bet. secs. 11 and 12.
	Over level land, through scattering undergrowth.
25.70	Road, brs. E. to Signal, and W. to Mc Cracken Mine.

Subdivision of T. 13 N., R. 14 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;
 $\frac{1}{4}$ 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.
 Feb. 17: At this cor., I set off $12^{\circ} 8\frac{1}{2}'$ S. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat is $34^{\circ} 29'N$.
 Thence over rolling mesa land.
 80.00 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;
 T13NR14W in N. half;
 S2 in NW.,
 S1 in NE.,
 S12 in SE. and
 S11 in SE. 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 and 4th rate, granite base.
 No timber.
 Undergrowth, mesquite, cat claw, greasewood, yucca and cacti.

40.00 N. $89^{\circ} 49'$ E., on a random line, bet. secs. 1 and 12.
 Set temp. $\frac{1}{4}$ sec. cor.
 79.76 Intersect E. bdy. of the Tp., 7 lks. N. 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. $89^{\circ} 52'$ W., on a true line, bet. secs. 11 and 12.
 Over rolling land, through scattering undergrowth.
 39.75 Main road, brs. NW. to Yucca, and SE. to Signal.
 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;
 $\frac{1}{4}$ 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.
 79.76 The cor. of secs. 1, 2, 11 and 12.
 Land, rolling mesa.
 Soil, rocky, 3rd and 4th rate.
 No timber.
 Undergrowth, greasewood, mesquite, cat claw, yucca and cacti.

40.00 N. $0^{\circ} 1'$ W., on a random line, bet. secs. 1 and 2.
 Set temp. $\frac{1}{4}$ sec. cor.
 79.90 Intersect N. bdy. of Tp., 28 lks. E. of the cor. of secs. 1, 2, 35 and 36, which is an iron post, established by me, as described in Book "A".
 Thence I run
 S. $0^{\circ} 13'$ E., on a true line, bet. secs. 1 and 2.
 Over rolling land, through scattering undergrowth.
 Ascend NE slope.
 6.00 Thence over rolling land.

Chains	
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; $\frac{1}{4}$ S2 in W. and S1 in E. half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
42.00	Road, Yucca to Signal, brs. NW. and SE.
79.90	The cor. of secs. 1, 2, 11 and 12. Land, rolling. Soil, 3rd and 4th rate. No timber. Undergrowth, palo verde, greasewood, mesquite, yucca and cacti.
	R. D. A. Feb. 17, 1915.

	Feb. 15, 1915: I. W. S. At 9 hrs. 13 m. a.m., l.m.t., I set off $34^{\circ} 25' N.$ on the lat. arc; $12^{\circ} 51\frac{1}{2}' S.$ on the decl. arc; and determine a meridian with the solar at the standard cor. of secs. 34 and 35, 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. $0^{\circ} 1' W.$, bet. secs. 34 and 35. Over slightly rolling 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; $\frac{1}{4}$ S34 in W. and S35 in E. half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
60.00	Wash, course NW.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 26, 27, 34 and 35, marked on brass cap 1915 on S. rim; T13NR14W in N. half; S27 in NW., S26 in NE., S35 in SE. and S34 in SW. quadrant; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
	Land, rolling. Soil, sandy, some clay; 2nd rate. Timber, none. Undergrowth, greasewood, cat claw, yucca and cacti.

	East, on a random line, bet. secs. 26 and 35.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.02	Intersect N. and S. line, 4 lks. S. of the cor. of secs. 25, 26, 35 and 36.
	Thence I run S. $89^{\circ} 58' W.$, on a true line, bet. secs. 26 and 35. Over rolling land, through scattering undergrowth.
10.00	Wash, 50 lks. wide, course N.
15.00	Wash, 30 lks. wide, course NE.
24.35	Road, brs. N. to Signal, and S. to Alamo.
40.01	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 N. and S35 in S. half;

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7.

Chains.

and raise a mound of stone, 2 ft. base, 1½ ft. high,
 N. of cor. Pits impracticable.
 41.80 Wash, 50 lks. wide, course N.
 80.02 The cor. of secs. 26, 27, 34 and 35.
 Land, rolling.
 Soil, sandy and rocky, 3rd and 4th rate.
 No timber.
 Undergrowth, palo verde, ocatilla, cat claw and cacti.

N.0° 1' W., bet. secs. 26 and 27.
 Over rolling land, through scattering undergrowth.
 40.00 Wash, 50 lks. wide, course NE. 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;
 S27 in W. and
 S26 in E. half;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor. Pits impracticable.
 64.00 Road, brs. NE. to Signal, and SW. to Castaneta Well.
 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;
 T13NR14W in N. half;
 S22 in NW.,
 S23 in NE.,
 S26 in SE. and
 S27 in SW. quadrant;

and raise a mound of stone, 2 ft. base, 1½ ft. high.
 W. of cor. Pits impracticable.
 Land, level.
 Soil, good loam, deep and loose; 2nd rate.
 No timber.
 Undergrowth, greasewood, ocatilla, cacti.
 Feb. 15: At this cor., I set off 12° 49' S. on the decl.
 arc; and at apparent noon, I observe the sun on the
 meridian; the resulting lat. is 34° 27' N.

N.89° 58' E., on a random line, bet. secs. 23 and 26..
 40.00 Set temp. ¼ sec. cor.
 80.06 Intersect N. and S. line, 5 lks. S. of the cor. of secs.
 23, 24, 25 and 26.
 Thence I run
 S. 89° 56' W., on a true line, bet. secs. 23 and 26.
 Over gently rolling land, through scattering undergrowth.
 6.30 Spur, brs. N. Road, brs. N. to Signal, and S. to Alamo.
 40.03 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;
 S23 in N. and
 S26 in S. half;

and raise a mound of stone, 2 ft. base, 1½ ft. high,
 N. of cor. Pits impracticable.
 41.00 Wash, 2.50 chs. wide, course NE.
 60.00 Wash, 2 chs. wide, course NE.
 61.00 Old road, brs. NE. to Signal, and SW. to Castaneta Well.
 80.06 The cor. of secs. 22, 23, 26 and 27.

Land, rolling.
 Soil, sandy and rocky, 3rd rate.
 No timber.
 Undergrowth, palo verde, cat claw, greasewood, and cacti.
 I. W. S.

R. D. A.
 N.0° 1' W., bet. secs. 22 and 23.

Chains.	
	Over rolling land, through scattering undergrowth.
39.50	Old road, brs. E. and 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; $\frac{1}{4}$ S22 in W. and S23 in E. half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
45.00	Wash, 20 lks. wide, course ENE.
45.80	Old road, brs. NE. and SW.
56.00	Wash, 40 lks. wide, course E.
59.70	Old road, brs. ENE. and WSW.
75.00	Wash, 30 lks. wide, course NE.
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; T13NR14W in N. half; S15 in NW., S14 in NE., S23 in SE. and S22 in SW. quadrant; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
	Land, rolling.
	Soil, 3rd rate, granite base.
	No timber.
	Undergrowth, greasewood, cat claw, yucca and cacti.

	N. $89^{\circ} 56'$ E., on a random line, bet. secs. 14 and 23.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.96	Intersect N. and S. line, 5 lks. N. of the cor. of secs. 13, 14, 23 and 24, marked on brass cap.
	Thence I run
	S. $89^{\circ} 58'$ W., on a true line, bet. secs. 14 and 23.
	Over rolling, land, through scattering undergrowth.
10.50	Road, brs. NE. to Signal, and SW. to Castaneta Well.
22.00	Wash, 50 lks. wide, course NE.
26.50	Trail, brs. NE. and SW.
35.00	Wash, 50 lks. wide, course NE.
39.98	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; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
41.00	Old road, brs. NE. and SW.
61.00	Wash, 30 lks. wide, course NE.
70.00	Wash, course NE.
79.96	The cor. of secs. 14, 15, 22 and 23. Land, rolling. Soil, 3rd rate; granite base. No timber. Undergrowth, greasewood, palo verde, yucca and cacti.
	R. D. A. Feb. 15, 1915.

	Feb. 18, 1915: I. W. S.
	N. $0^{\circ} 1'$ W., bet. secs. 14 and 15. Over level land.
.60	Road, brs. NE. to Signal, and SW. to Mc Cracken's Mine.
19.00	Old road, brs. NE. and SW.
26.70	Wash, 4 chs. wide, course E.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap

Chains.	<p>1915 on S. rim; $\frac{1}{4}$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.</p>
45.00	Wash, course SE.
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, mark- ed on brass cap
	<p>1915 on S. rim; T13NR14W 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.</p>
	Land, level.
	Soil, loose gravelly loam, 2nd rate.
	No timber.
	Undergrowth, greasewood, yucca, cat claw and palo verde.

40.00	N. 89° 58' E., on a random line, bet. secs. 11 and 14. Set temp. $\frac{1}{4}$ sec. cor.
80.10	Intersect N. and S. line, 16 lks. N. of the cor. of secs. 11, 12, 13 and 14, hereinbefore described.
	Thence I run
	N. 89° 55' W., on a true line, bet. secs. 11 and 14.
	Over level land, through scattering undergrowth.
20.10	Wash, 150 lks. wide, course SE.
25.00	Leave level land, brs. NW. and SE. Asc. NE. slope, 150 ft.
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
	<p>1915 on S. rim; $\frac{1}{4}$S11 in N. and S14 in S. half;</p>
	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
45.10	Top of hill, brs. E. and W. Desc. NW. slope, 105 ft. to
57.10	Foot of hill, brs. NE. and SW. Thence over rolling land.
80.10	The cor. of secs. 10, 11, 14 and 15.
	Land, level and hilly.
	Soil, loose gravelly loam, 2nd rate.
	No timber.
	Undergrowth, greasewood, yucca, cat claw and palo verde.

	N. 0° 1' W., bet. secs. 10 and 11.
	Over rolling land, through scattering undergrowth.
5.00	Road, well built, brs. E. to Signal, and W. to Mc Cracken's Mine.
8.50	Wash, 2.50 chs. wide, course E. Asc. S. slope of hill, 375 ft. to
32.00	Top of hill, brs. E. and W. About 15 chs. long. Desc. N. slope, 305 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
	<p>1915 on S. rim; $\frac{1}{4}$S10 in W. and S11 in E. half;</p>
	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
49.00	Wash, 2 chs. wide, course SE. Asc. SE. slope, 230 ft. to
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
	<p>1915 on S. rim; T13NR14W in N. half;</p>

Chains.

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, rolling and mountainous.
Soil, 3rd and 4th rate.
Timber, none.
Undergrowth, palo verde, yucca, mesquite, cat claw and
cacti.

Feb. 18, 1915.

Feb. 20, 1915.
S. $89^{\circ} 55'$ E., on a random line, bet. secs. 2 and 11,
40.00 Set temp. $\frac{1}{4}$ sec. cor.
80.12 Intersect N. and S. line, 7 lks. N. of the cor. of secs.
1, 2, 11 and 12, ~~for~~ ~~as~~ ~~described~~.
Thence I run
N. $89^{\circ} 52'$ W., on a true line, bet. secs. 2 and 11.
10.00 Over level land, through scattering undergrowth.
40.06 Leave flat, brs. NW. and S. Thence over rolling land.
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.
71.10 Ravine, course SE. Asc. E. slope, 85 ft. to
80.12 The cor. of secs. 2, 3, 10 and 11.
Land, level and rolling.
Soil, rocky, 3rd and 4th rate.
No timber.
Undergrowth, iron wood, mesquite, cat claw, palo verde,
yucca and cacti.

N. $0^{\circ} 1'$ W., on a random line, bet. secs. 2 and 3.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
79.70 Intersect N. bdy. of the Tp., 9 lks. E. of the cor. of
secs. 2, 3, 34 and 35, which is an iron post, estab-
lished by R. D. A., as described in Book "A".
Thence I run
S. $0^{\circ} 5'$ E., on a true line, bet. secs. 2 and 3.
Through scattering undergrowth. Over rolling land.
6.80 Rocky spur, brs. E. Desc. slight SE. slope.
39.70 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;
 $\frac{1}{2}$ S3 in W. and
S2 in E. half;
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
W. of cor. Pits impracticable.
45.00 Asc. N. slope, 145 ft. to
62.20 Spur, brs. E. Desc. SW. slope, 205 ft. to
74.30 Ravine, course SE. Asc. NE. slope, 50 ft. to
79.70 The cor. of secs. 2, 3, 10 and 11.
Land, rolling and mountainous.
Soil, 3rd and 4th rate, rocky.
No timber.
Undergrowth, greasewood, cat claw, and cacti.

I. W. S.
Feb. 20, 1915.

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

Chains.

Feb. 15, 1915. R. D. A.
At 8 hrs. a.m., l.m.t., I set off 34° 25' N. on the lat. arc; 12° 51½' S. on the decl. arc; and determine a meridian with the solar at the standard cor. of secs. 33 and 34, on the south 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 rolling mesa, through scattering undergrowth.
6.50 Wash, 10 lks. wide, course NE.
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 S33 in W. and
¼ S34 in E. half;
and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
54.00 Wash, 60 lks. wide, course NE.
59.80 Read, brs. E. to Signal, and W. to Castaneta Well.
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;
T13NR14W 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, rolling.
Soil, 3rd rate.
No timber.
Undergrowth, greasewood, cat claw, palo verde, yucca and cacti.

R. D. A.
Feb. 15, 1915.

Feb. 15, 1915: I. W. S.
East, on a random line, bet. secs. 27 and 34.
40.00 Set temp ¼ sec. cor.
79.90 Intersect N. and S. line, 9 lks. S. of the cor. of secs. 26, 27, 34 and 35, as described.

Thence I run
S. 89° 56' W., on a true line, bet. secs. 27 and 34.
Over level land, through scattering undergrowth.
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 S27 in N. and
¼ S34 in S. half;
and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
64.00 Road, brs. NE. to Signal, and SW. to Castaneta Well.
79.90 The cor. of secs. 27, 28, 33 and 34.
Land, level.
Soil, sandy, some clay; 2nd rate.
No timber.
Undergrowth, greasewood, cat claw, palo verde, yucca and cacti.

I. W. S.

Chains.	
	R. D. A. N.0° 2' W., bet. secs. 27 and 28. Over rolling land, through scattering undergrowth.
24.00	Road, brs. E. to Signal, and W. to S. side Mc Cracken Mt.
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; $\frac{1}{4}$ S28 in W. and S27 in E. half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
61.20	Road, brs. NE. to Signal, and SW. to Castaneta Well.
62.50	Wash, 50 lks. wide, course NE.
80.00	Set an iron post, 3 ft. long, 2 ins diam., 24 ins. in the ground, for cor. of secs. 21, 22, 27 and 28, marked on brass cap 1915 on S. rim; T13NR14W in N. half; S21 in NW., S22 in NE., S27 in SE. and S28 in SW. quadrant; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, level and rolling. Soil, 3rd rate. No timber. Undergrowth, palo verde, cat claw, yucca and cacti.
40.00	N.89° 56' E., on a random line, bet. secs. 22 and 27. Set temp $\frac{1}{4}$ sec. cor.
79,74	Intersect N. and S. line, 9 lks. N. of the cor. of secs. 22, 23, 26 and 27, bearing as recorded. Thence I run West, on a true line, bet. secs. 22 and 27. Over rolling land, through scattering undergrowth.
39.87	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.
50.00	Wash, 20 lks. wide, course NE.
60.60	Road, brs. NE. to Signal, and SW. to Castaneta Well.
79.74	The cor. of secs. 21, 22, 27 and 28. Land, rolling. Soil, 3rd rate. No timber. Undergrowth, greasewood, cat claw, mesquite, yucca and cacti. Feb. 15: At this cor., I set off 12° 49' S. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 27' N. R. D. A. Feb. 15, 1915.
	Feb. 18, 1915: I. W. S. N.0° 2' W., bet. secs. 21 and 22. Over level land, through scattering undergrowth.
4.00	Wash, 2 chs. wide, course NE.
13.20	Road, brs. NE. and SW.
39.00	Wash, 70 lks. wide, course NE.
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;

Chains

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

60.00 Wash, 2 chs. wide, course E.

73.60 Road, brs. NE. to Signal, and SW. to Mc Cracken Mine.

77.00 Wash, 100 lks. wide, course NE.

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;
- T13NR14W 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 1/2 ft. high, W. of cor. Pits impracticable.

Land, level; drains NE.

Soil, gravelly loam, 2nd rate.

No timber.

Undergrowth, greasewood, cat claw, palo verde, yucca and cacti.

East, on a random line, bet. secs. 15 and 22.

40.00 Set temp 1/4 sec. cor.

80.00 Intersect N. and S. line, at the cor. of secs. 14, 15, 22 and 23, marked on brass cap.

Thence I run

West, on a true line, bet. secs. 15 and 22.

Over level land, through scattering undergrowth.

2.80 Road, brs. NE. to Signal, and SW. to Mc Cracken Mine.

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 S15 in N. and
- S22 in S. half;

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

53.70 Old road, brs. NE. and SW.

78.30 Wash, 150 lks. wide, course NE.

80.00 The cor. of secs. 15, 16, 21 and 22.

Land, level.

Soil, gravelly loam, 2nd rate.

No timber.

Undergrowth, greasewood, yucca, cat claw and palo verde.

Feb 18: At this cor., I set off 11° 47' S. on the decl.

arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 28' N.

Feb. 18, 1915.

Feb. 19, 1915.

N. 0° 2' W., bet. secs. 15 and 16.

Over rolling land, through scattering undergrowth.

30.00 Enter flat, brs. NW. and SE.

33.40 Graded road, brs. NE. to Signal, and SW. to Mc Cracken Mine.

39.00 Wash, 60 lks. wide, course NE.

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 S16 in W. and
- S15 in E. half;

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

59.00 Wash, 60 lks. wide, course SE.

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

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

Chains.

1915 on S. rim;
T13NR14W in N. half;
S9 in NW.,
S10 in NE.,
S15 in SE. and
S16 in SW. quadrant;

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

Land, level and rolling.
Soil, gravelly loam, 2nd rate.
Timber, none.

Undergrowth, yucca, palo verde and cacti.

Feb. 19: At this cor., I set off $11^{\circ} 25\frac{1}{2}'$ S. on the
decl. arc; and at apparent noon, I observe the sun on
the meridian; the resulting lat. is $34^{\circ} 28\frac{1}{2}'$ N.

East, on a random line, bet. secs. 10 and 15.

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

80.06 Intersect N. and S. line, 26 lks. S. of the cor. of secs.
10, 11, 14 and 15, before the line.

Thence I run

$S89^{\circ} 49'$ W., on a true line, bet. secs. 10 and 15.

Over gently rolling land, through scattering undergrowth.

31.05 Graded road, brs. NE. to Signal, and SW. to Mc Cracken
Mine.

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;
 $\frac{1}{2}$ 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.

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

67.05 Wash, 250 lks. wide, course SE.

73.80 Road, brs. NW. and SE.

80.06 The cor. of secs. 9, 10, 15 and 16.

Land, gently rolling.

Soil, sandy 3rd rate.

No timber.

Undergrowth, yucca, cat claw, greasewood and cacti.

N. $0^{\circ} 2'$ W., bet. secs. 9 and 10.

Over level land, through scattering undergrowth.

5.30 Old road, brs. NW. and SE.

9.00 Wash, 2 chs. wide, course SE.

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

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;

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. 3, 4, 9 and 10, marked on
brass cap

1915 on S. rim;
T13NR14W 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, $1\frac{1}{2}$ ft. high,
W. of cor. Pits impracticable.

Subdivision of T. 13 N., R. 14 W. 15

Chains.

Land, slightly rolling.
Soil, sandy, 3rd rate.
No timber.
Undergrowth, yucca, greasewood, palo verde and cacti.

40.00 N. 89° 49' E., on a random line, bet. secs. 3 and 10.
Set temp $\frac{1}{4}$ sec. cor.

80.14 Intersect N. and S. line, 5 lks. S. of the cor. of secs. 2, 3, 10 and 11, hereinafter described.
Thence I run
S. 89° 47' W., on a true line, bet. secs. 3 and 10.
Through scattering undergrowth. Asc. SE. slope, 115 ft. to Ridge, brs. N. and S. Desc. SW. slope, 165 ft. to

7.00 Foot of desc; thence over level land.

15.15

40.07 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;
 $\frac{1}{2}$ S3 in N. and
S10 in S. half;
and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.

80.14 The cor. of secs. 3, 4, 9 and 10.
Land, level and mountainous.
Soil, sandy, 3rd rate.
No timber.
Undergrowth, yucca, palo verde, greasewood and cacti.
Feb. 19, 1915.

Feb. 20, 1915.
N. 0° 2' W., on a random line, bet. secs. 3 and 4.

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

79.92 Intersect N. and S. line, 4 lks. E. of the cor. of secs. 3, 4, 33 and 34, which is an iron post, established by R. D. A., as described in book "A".
Thence I run
S. 0° 4' E., on a true line, bet. secs. 3 and 4.
Over level land, through scattering undergrowth.

37.40 Wash, course SE.

39.92 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;
 $\frac{1}{2}$ S4 in W. and
S3 in E. half;
and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

79.92 The cor. of secs. 3, 4, 9 and 10.
Land, level.
Soil, sandy, 3rd rate.
No timber.
Undergrowth, greasewood, palo verde, yucca and cacti.
Feb. 20, 1915.

Feb. 17, 1915: At 8 hrs. 3 m., a.m., l.m.t., I set off 34° 25' N. on the lat. arc; 12° 10' S. on the decl. arc; and determine a meridian with the solar at the standard cor. of secs. 32 and 33, on the south 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. 32 and 33.
Over rolling land, through scattering undergrowth.
Asc. SW. slope, 50 ft. to
Spur, brs. NW. Desc. NE. slope, 60 ft. to
Ravine, course E. Thence over rolling land.

7.50

20.00

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 bras cap
1915 on S. rim;

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

Chains.

	<p>$\frac{1}{4}$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.</p>
43.80	Spur, brs. NE.
66.00	Old road, brs. NE. to Signal, and SW. to S. side of Mc Cracken Mt. Wash, course NE.
75.00	Wash, course SE. Asc. S. slope, 100 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
	<p>1915 on S. rim; T13NR14W 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.</p>
	Land, rolling.
	Soil, sandy and rocky, 3rd and 4th rate.
	No timber.
	Undergrowth, greasewood and yucca.

	East, on a random line, bet. secs. 28 and 33.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.80	Intersect N and S. line, at the cor. of secs. 27, 28, 33 and 34.
	Thence I run
	West, on a true line, bet. secs. 28 and 33.
	Over rolling land, through scattering undergrowth.
26.90	Road, brs. N. to Signal, and S. to Castaneta Well.
32.00	Wash, course NE.
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
	<p>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.</p>
53.00	Leave mesa, brs. N. and S. Asc. E. slope, 220 ft.
53.10	Monument brs. S. $79^{\circ}20'$ E., 4.39 chs. dist.
63.10	Butte. Desc. NW. slope, 190 ft. to
71.90	Gulch, 50 lks. wide; course NE. Asc. E. slope, 100 ft.
73.60	Old road, brs. NE. to Signal, and SW. to S. side of Mc Cracken Mt.
79.80	Top of small peak. The cor. of secs. 28, 29, 32 and 33. Land, rolling and mountainous. Soil, sandy, some clay; 3rd rate. No timber. Undergrowth, greasewood, cat claw, and cacti.
	Feb. 17, 1915.

	Feb. 18, 1915: At 7 hrs. 45 m. a.m., l.m.t., I set off $34^{\circ}26'$ N. on the lat. arc; $11^{\circ}49'$ 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. $0^{\circ}21'$ W., bet. secs. 28 and 29.
	Desc. NE. slope, 69 ft. through scattering undergrowth to
5.00	Foot of descent. Asc. 35 ft. to through scattering undergrowth.
8.40	Spur, brs. E. Desc. to
20.00	Wash, 20 lks. wide, course E. Asc. S. slope, 45 ft.
33.25	Spur, brs. E. Desc. N. slope, 20 ft. to
34.75	Wash, course E.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap

Chains.

1915 on S. rim;
 1/4 S29 in W. and
 S28 in E. half;
 and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,
 W. of cor. Pits impracticable.
 Thence over rolling land.
 60.00 Thence over flat.
 70.00 Wash, 150 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. 20, 21, 28 and 29, marked on
 brass cap

1915 on S. rim;
 T13NR14W in N. half;
 S20 in NW.,
 S21 in NE.,
 S28 in SE. and
 S29 in SW. quadrant;
 and raise amount of stone, 2 ft. base, 1 1/2 ft. high,
 W. of cor. Pits impracticable.
 Land, level, rolling and mountainous.
 Soil, sandy and rocky, 3rd and 4th rate.
 No timber.
 Undergrowth, greasewood, cat claw, palo verde, yucca and
 cacti.

40.00 East, on a random line, bet. secs. 21 and 28.
 Set temp. 1/4 sec. cor.
 80.00 Intersect N. and S. line, at the cor. of secs. 21, 22, 27
 and 28.
 Thence I run
 West, on a true line, bet. secs. 21 and 28.
 Over level land, through scattering undergrowth.
 3.00 Wash, 250 lks. wide, course NE.
 4.50 Road, brs. NE. and SW.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for 1/2 sec. cor., marked on brass cap

1915 on S. rim;
 1/4 S21 in N. and
 S28 in S. half;
 and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,
 N. of cor. Pits impracticable.
 80.00 The cor. of secs. 20, 21, 28 and 29.
 Land, level.
 Soil, sandy, 3rd rate.
 No timber.
 Undergrowth, greasewood, cat claw, palo verde, yucca and
 cacti.

Feb. 18, 1915.

Feb. 19, 1915: At 8 hrs. 5 m. , a.m., l.m.t., I set off
 34° 27' N. on the lat. arc; 11° 28' 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.
 1.90 Wood road, brs. NE. and SW.
 35.00 Wash, 3 chs. wide, course NE. Asc. SE. slope.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for 1/2 sec. cor., marked on brass cap

1915 on S. rim;
 1/4 S 20 in W. and
 S21 in E. half;
 and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,
 W. of cor. Pits impracticable.

Chains.	
54.00	Spur, brs. E. Desc. NE. slope.
69.00	Wash, 3 chs. wide, course NE.
69.60	Forks of road. Road brs. SW. to Mc Cracken Mine, and E. and NE. to Signal.
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; T13NR14W 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, gravelly, 3rd rate. No timber. Undergrowth, yucca, palo verde and cacti.
40.00	East, on a random line, bet. secs. 16 and 21. Set temp. ¼ sec. cor.
79.72	Intersect N. and S. line, 23 lks. N. of the cor. of secs. 15, 16, 21 and 22. Thence I run N.89° 50' W., on a true line, bet. secs. 16 and 21. Over rolling land, through scattering undergrowth.
25.00	Gulch, course NE.
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; ¼S16 in N. and S21 in S. half; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
62.25	Graded road, brs. NE. to Signal, and SW. to Mc Cracken Mine.
79.72	The cor. of secs. 16, 17, 20 and 21. Land, rolling. Soil, sandy, mixed with gravel, 3rd rate. No timber. Undergrowth, greasewood, palo verde, yucca, and cacti. Feb, 19, 1915.
	Feb. 20, 1915: At 8 hrs. 3 m. a.m., l.m.t., I set off 34° 28' N. on the lat. arc; 11° 7' 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° 2' W., bet. secs. 16 and 17. Over gently rolling land, through scattering undergrowth.
25.00	Wash, 20 lks. wide, course E.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap 1915 on S. rim; ¼S17 in W. and S16 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., 24 ins. in the ground, for cor. of secs. 8, 9, 16 and 17, marked on brass cap 1915 on S. rim; T13NR14W in N. half; S8 in NW., S9 in NE., S16 in SE. and S17 in SW. quadrant;

Subdivision of T. 13 N., R. 14 W. 19.

Chains.

and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor. Pits impracticable.
 Land, gently rolling.
 Soil, sandy, 3rd rate.
 No timber.
 Undergrowth, greasewood, mesquite, palo verde, cat claw,
 yucca and cacti.

40.00 S.89° 50' E., on a random line, bet. secs. 9 and 16.
 Set temp. ¼ sec. cor.
 79.84 Intersect N. and S. line, 2 lks. S. of the cor. of secs.
 9, 10, 15 and 16.

Thence I run
 N.89° 51' W., on a true line, bet. secs. 9 and 16.
 Over level land, through scattering undergrowth.
 22.00 Wash, course SE.
 39.92 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 N. and
 S16 in S. half;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 N. of cor. Pits impracticable.

55.00 Asc. NE. slope, 55 ft.
 62.00 Thence over level land.
 79.84 The cor. of secs. 8, 9, 16 and 17.
 Land, level and rolling.
 Soil, sandy 3rd rate.
 No timber.
 Undergrowth, greasewood, palo verde, cat claw, yucca and
 cacti.

10.00 N.0° 2' W., bet. secs. 8 and 9.
 Over level land, through scattering undergrowth.

40.00 Wash, 40 lks. wide, course E.
 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;
 ¼S8 in W. and
 S9 in E. half;

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

61.00 Wash, 2 chs. wide, course SE.
 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;
 T13NR14W in N. half;
 S5 in NW.,
 S4 in NE.,
 S9 in SE. and
 S8 in SW. quadrant;

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

Land, level.
 Soil, sandy, 3 rd rate.
 No timber.
 Undergrowth, palo verde, greasewood, cat claw, yucca and
 cacti.

Chains.	S. $89^{\circ} 51'$ E., on a random line, bet. secs. 4 and 9.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.90	Intersect N. and S. line, 2 lks. S. of the cor. of secs. 3, 4, 9 and 10.
	Thence I run
	N. $89^{\circ} 52'$ W., on a true line, bet. secs. 4 and 9.
	Over level land, through scattering undergrowth.
39.95	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap 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.
	Feb. 20: At this cor., I set off $11^{\circ} 4'$ S. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is $34^{\circ} 29\frac{1}{2}'$ N.
45.00	Road, brs. NW. to Yucca, and SE. to Signal.
79.90	The cor. of secs. 4, 5, 8 and 9. Land, level. Soil, sandy, 3rd rate. No timber. Undergrowth, palo verde, greasewood, yucca, and cacti.
	-----I. W. S. Feb. 20, 1915.-----
	R. D. A. Feb. 25, 1915.
	N. $0^{\circ} 2'$ W., on a random line, bet. secs. 4 and 5.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.94	Intersect N. bdy. of Tp., 19 lks. E. of the cor. of secs. 4, 5, 32 and 33, which is an iron post, established by me, as described in Book "A".
	Thence I run
	S. $0^{\circ} 10'$ E., on a true line, bet. secs. 4 and 5.
	Over level land, through scattering undergrowth.
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; $\frac{1}{4}$ 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.
79.94	The cor. of secs. 4, 5, 8 and 9. Land, level. Soil, sandy, 3rd rate. No timber. Undergrowth, greasewood, palo verde, cat claw, yucca and cacti.
	R. D. A. Feb. 25, 1915.

	Feb. 17, 1915. I. W. S.
	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. $0^{\circ} 3'$ W., bet. secs. 31 and 32.
	Over gently rolling land, through scattering undergrowth.
3.00	Spur, brs. NE. Desc. slight N. slope.
35.00	Old road, brs. E. to Signal, & W. to S. side of McCracken Mt.
38.00	Small spur, brs. SE., thence over rolling land, drains 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; $\frac{1}{4}$ 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.
75.00	Wash, course SE.
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

Chains.

1915 on S. rim;
T13NR14W 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, level.

Soil, sandy, 3rd rate.

No timber.

Undergrowth, greasewood, palo verde, yucca, and cacti.

Feb. 17; At this cor., I set off $12^{\circ} 8'$ S. on the decl.
arc; and at apparent noon, I observe the sun on the
meridian; the resulting lat. is $34^{\circ} 26'$ N.

East, on a random line, bet. secs. 29 and 32.

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

79.68 Intersect N. and S. line, 5 lks. N. of the cor. of secs.
28, 29, 32 and 33.

Thence I run

N. $89^{\circ} 58'$ W., on a true line, bet. secs. 29 and 32.

Desc. SW. slope, through scattering undergrowth.

19.68 Wash, course SE. Thence over level land.

39.84 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.

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

Land, level and hilly.

Soil, sandy, 3rd rate.

No timber.

Undergrowth, greasewood, palo verde, yucca and cacti.

West, on a random line, bet. secs. 30 and 31.

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

79.89 Intersect W. bdy. of Tp., 5 lks. S. of the cor. of secs.
25, 30, 31 and 36, which is an iron post, established
by me, as described in Book "A".

Thence I run

S. $89^{\circ} 58'$ E., on a true line, bet. secs. 30 and 31.

Through scattering undergrowth. Asc. SW. slope, 200 ft.

4.90 Spur, brs. SW. Continue asc.

24.64 Tunnel, brs. N. $26\frac{3}{4}^{\circ}$ W.

29.90 Spur, brs. S. Thence along S. slope.

38.90 Spur, brs. S. Desc. SE. slope.

39.89 Set a basalt stone, 14X10X6 ins., 7 ins. in the ground, on
solid rock, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face; and
raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N.
of cor. Pits impracticable.

49.90 Gulch, course SW.

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

Land, rolling.

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

No timber.

Undergrowth, greasewood, palo verde, cat claw, yucca and
cacti.

Feb. 17, 1915.

Feb. 19, 1915.

N. $0^{\circ} 3'$ W., bet. secs. 29 and 30.

Over mountainous land, through scattering undergrowth.

Chains

11.40 Asc. SW. slope, 100 ft., to
 19.70 Peak and ridge, brs. NW. and SE. Desc. NE. slope, 65 ft. to
 30.00 Asc. S. slope, 75 ft. to
 40.00 Thence over rolling land.
 Gulch, course NE. 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;

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

77.10 Old wood road, brs. NE. and SW.

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;

T13NR14W 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 mountainous.

Soil, sandy and rocky, 3rd rate.

No timber.

Undergrowth, greasewood, palo verde, cat claw, yucca and
 cacti.

40.00 S.89° 58' E., on a random line, bet. secs. 20 and 29.
 Set temp. $\frac{1}{4}$ sec. cor.

79.76 Intersect N. and S. line, 7 lks. N. of the cor. of secs.
 20, 21, 28 and 29.

Thence I run

N.89° 55' W., on a true line, bet. secs. 20 and 29.

Over level land, through scattering undergrowth.

37.85 Old wood road, brs. NE. and SW.

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;

$\frac{1}{4}$ 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.

53.75 Same wood road, brs. NW. and SE.

66.75 Same wood road, brs. NE. and SW.

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

Land, level.

Soil, sandy and rocky, 3rd rate.

No timber.

Undergrowth, greasewood, palo verde, cat claw, yucca and
 cacti.

I. W. S.

Feb. 19, 1915.

Feb. 20, 1915: R. D. A.

At 9 hrs. 55 m., a.m., l.m.t., I set off 34° 27' N. on the
 lat. arc; 11° 6' 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° 58' W., on a random line, bet. secs. 19 and 30.

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

79.69 Intersect W. bdy. of the Tp., 28 lks. N. of the cor. of
 secs. 19, 24, 25 and 30, which is an iron post, estab-

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

Chains.	
	lished by me, as described in Book "A".
	Thence I run
	N. 89° 50' E., on a true line, bet. secs. 19 and 30
	Across Beaver Mining Claim, through scattering undergrowth.
	Desc. SE. slope, 595 ft.
.99	Leave Beaver Mining Claim. Cor. No 4 brs. N. 46° 40' W., 5.95 chs. dist.
14.30	Gulch, course NE. Continue desc.
19.30	Spur, brs. NE. Continue to desc. SE. slope.
39.69	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.
	Thence over rolling land.
70.00	Old road, brs. NE. and SW.
79.69	The cor. of secs. 19, 20, 29 and 30. Land, mountainous and rolling. Soil, 3rd and 4th rate. No timber. Undergrowth, palo verde, greasewood, cat claw, yucca and cacti. Feb. 20: At this cor., I set off 11° 4' S. on the decl. arc; and at apparent noon, I observe the sun on the mer- idian; the resulting lat. is 34° 27' N.

	Feb. 22, 1915: At 7 hrs. 56 m., a.m., l.m.t., I set off 34° 27' N. on the lat. arc; 10° 23 $\frac{1}{2}$ ' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 19, 20, 29 and 30.
	Thence I run
	N. 0° 3' W., bet. secs. 19 and 20.
	Along broken E. slope, through scattering undergrowth.
10.00	Wash, 20 lks. wide, course E. Asc. S. slope, 40 ft. to
12.50	Spur, brs. E. Desc. N. slope, 140 ft. to
18.00	Wash, 20 lks. wide, course E. Asc. slight S. slope.
26.40	Spur, brs. E. Thence over rolling land.
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.
42.50	Spur, brs. E. Desc. N. slope, 135 ft. to
49.00	Wash, 20 lks. wide, course E. Asc. S. slope, 95 ft. to
56.00	Spur, brs. E. Desc. N. slope, 130 ft.
61.00	Mc Cracken Mine Road, brs. E. to Signal, and W. to Mine.
65.00	Wash, 20 lks. wide, course E. Asc. SW. slope, 160 ft. to
77.00	Spur, brs. SE. Desc. NE. slope 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; T13NR14W 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, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, 3rd and 4th rate; granite base. No timber. Undergrowth, mesquite, greasewood, cat claw, yucca and cacti.

Chains.	S.89° 55' E., on a random line, bet. secs. 17 and 20. Set temp. $\frac{1}{4}$ sec. cor.
40.00	
79.62	Intersect N. and S. line, 35 lks. S. of the cor. of secs. 16, 17, 20 and 21. Thence I run
	S.89° 50' W., on a true line, bet. secs. 17 and 20. Over rolling land, through scattering undergrowth.
39.81	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.
58.10	Asc. E. slope, 220 ft. to
77.60	Spur, brs. SE. Thence along broken S. slope.
79.62	Wash, 5 lks. wide, course SE. Asc. NE. slope, 50 ft. to The cor. of secs. 17, 18, 19 and 20. Land, rolling and hilly. Soil, 3rd and 4th rate. No timber. Undergrowth, mesquite, yucca and cacti. Feb. 22: At this cor., I set off 10° 21' 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. $\frac{1}{4}$ sec. cor.
79.60	Intersect W. bdy. of Tp., 2 lks. S. of the cor. of secs. 13, 18, 19 and 24, which is an iron post, established by me, as described in Book "A". Thence I run
	N.89° 51' E., on a true line, bet. secs. 18 and 19. Through scattering undergrowth. Desc. E. slope, 205 ft.
31.10	Wash, course SE. Continue desc.
38.40	Old road, brs. NW. and SE. Desc. broken SE. slope to
39.60	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; and riase a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
	Thence along broken S. slope.
62.60	Wash, 10 lks. wide, course SE. Asc. SW. slope, 110 ft. to
69.50	Spur, brs. SE.
76.10	Spur, brs. SE. Desc. NE. slope, 60 ft. to
79.60	The cor. of secs. 17, 18, 19 and 20. Land, mountainous. Soil, 4th rate. No timber. Undergrowth, greasewood, palo verde, cat claw, and cacti. Feb. 22, 1915.

	Feb. 24, 1915: At 10 hrs. a.m., l.m.t., I set off 34° 28' N. on the lat. arc; 9° 39' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 17, 18, 19 and 20.
	Thence I run
	N.0° 3' W., bet. secs. 17 and 18. Along E. slope, through scattering undergrowth.
14.00	Wash, course SE. Asc. SW. slope, 125 ft. to
23.00	Spur, brs. SE. Desc. NE. slope, 135 ft. to

Chains.	
29.55	Asc. SE. slope, 45 ft. to
31.50	Spur, brs. E. Desc. NE. slope, 65 ft. to
39.80	Wash, 5 lks. wide, course E.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap 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.
42.00	Asc. SE. slope, 45 ft. to
50.00	Spur, brs. E. Desc. NE. slope, 110 ft. to
65.00	Wash, 20 lks. wide, course SE. Asc. S. slope, 210 ft. to
70.00	Spur, brs. E. Desc. N. slope, 100 ft. to
76.50	Wash, 20 lks. wide, course E. Asc. S. slope, 95 ft. to
80.00	Spur, brs. E. Desc. NE. slope, 85 ft. to
	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; T13NR14W 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, mountainous.
	Soil, 3rd and 4th rate.
	No timber.
	Undergrowth, mesquite, yucca and cacti.
40.00	N. $89^{\circ} 50'$ E., on a random line, bet. secs, 8 and 17.
79.60	Set temp $\frac{1}{4}$ sec. cor. Intersect N. and S. line, 2 lks. S. of the cor. of secs. 8, 9, 16 and 17. Thence I run S. $89^{\circ} 49'$ W., on a true line, bet. secs. 8 and 17.
39.80	Through scattering undergrowth. Asc. E. slope, 95 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; $\frac{1}{2}$ 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.
79.60	Asc. broken E. slope, 235 ft. to The cor. of secs. 7, 8, 17 and 18. Land, rolling. Soil, 3rd and 4th rate. No timber. Undergrowth, yucca, mesquite, and cacti. Feb. 24: At this cor., I set off $9^{\circ} 37'$ S. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is $34^{\circ} 28\frac{1}{2}'$ N.
40.00	S. $89^{\circ} 51'$ W., on a random line, bet. secs. 7 and 18.
79.52	Set temp $\frac{1}{4}$ sec. cor. Intersect W. bdy. of Tp., 2 lks. N. 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 N. $89^{\circ} 50'$ E., on a true line, bet. secs. 7 and 18.
7.00	Over rolling land, through scattering undergrowth.
7.50	Old road, brs. N. and S. Low divide, brs. ENE. and WSW. Asc. broken SW. slope, 335 ft. to

Chains.	
34.50	Spur, brs. S. Desc. SE. slope, 70 ft.
39.52	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.
46.00	Gulch, course SW. Asc. W. slope, 85 ft. to
50.50	Ridge, brs. NW. and SE. Desc. SE. slope, 445 ft. to
79.52	The cor. of secs. 7, 8, 17 and 18. Land, mountainous. Soil, 4th rate. No timber. Undergrowth, greasewood, palo verde, mesquite, yucca and cacti.
	Feb. 24, 1915.

	Feb. 25, 1915: At the cor. of secs. 7, 8, 17 and 18, I set off $34^{\circ} 28\frac{1}{2}'$ N. on the lat. arc; $9^{\circ} 17\frac{1}{2}'$ S. on the decl. arc; and determine a meridian with the solar at 8 hrs. 5m. a.m., 1.mtt. Thence I run N. $0^{\circ} 3'$ W., bet. secs. 7 and 8. Over mountainous land, throughscattering undergrowth.
1.00	Wash, 5 lks. wide, course E. Asc. S. slope, 30 ft. to
4.50	Spur, brs. E. Desc. N. slope, 80 ft. to
10.00	Wash, 10 lks. wide, course E. Asc. SW. slope, 80 ft. to
16.70	Spur, brs. E. Desc. N. slope, 35 ft. to
20.00	Wash, 5 lks. wide, course E. Asc. S. slope, 20 ft. to
27.00	Spur, brs. E. Desc. N. slope, 15 ft. to
30.00	Wash, 10 lks. wide, course E. Asc. SE. slope, 125 ft. to
37.55	Spur, brs. E. Desc. N. slope, 225 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; $\frac{1}{4}$ 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. Continue to desc. N. slope
59.85	Foot of descent. Asc. SE. slope, 80 ft. to
75.00	Spur, brs. E. Desc. NE. slope to
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; T13NR14W 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 and mountainous. Soil, 4th rate. No timber. Undergrowth, greasewood, palo verde, yucca and cacti.

40.00	N. $89^{\circ} 49'$ E., on a random line, bet. secs. 5 and 8. Set temp. $\frac{1}{4}$ sec. cor.
79.52	Intersect N. and S. line, 2 lks. S. of the cor. of secs. 4, 5, 8 and 9. Thence I run S. $89^{\circ} 48'$ W., on a true line, bet. secs. 5 and 8.

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

Chains.

24.55
✓ 39.76

Over level land, through scattering undergrowth.
Leave mesa; asc. E. slope, 290 ft.
Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
1915 on S. rim;
 $\frac{1}{4}$ S5 in N. and
S8 in S. half;
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.

72.15
✓ 79.52

Continue to asc. E. slope. to
Asc. NE. slope, 50 ft. to
The cor. of secs. 5, 6, 7 and 8.
Land, level and mountainous
Soil, 3rd rate.
No timber.
Undergrowth, greasewood, palo verde, yucca and cacti.
Feb. 25: At this cor., I set off $9^{\circ} 15' S.$ on the decl. arc: and at apparent noon, I observe the sun on the meridian; the resulting lat. is $34^{\circ} 29\frac{1}{2}' N.$

40.00
✓ 79.42

S. $89^{\circ} 50'$ W., on a random line, bet. secs. 6 and 7.
Set temp. $\frac{1}{4}$ sec. cor.
Intersect W. bdy. of Tp., 14 lks. S. of the cor. of secs. 1, 6, 7 and 12, which is an iron post, established by me, as described in Book "A".

Thence I run
N. $89^{\circ} 56'$ E., on a true line, bet. secs. 6 and 7.
Over mountainous land, through scattering undergrowth.

10.40
27.40
✓ 39.42

Asc. NW. slope, 425 ft to
Spur, brs. SW. Continue to asc. SW. slope.
Ridge, brs. NW. and SE. Desc. SE. slope, 235 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;
 $\frac{1}{4}$ 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.

40.00
44.40
56.40
✓ 79.42

Spur, brs. SE. Desc. NE. slope, 60 ft. to
Wash, course SE. Asc. SW. slope, 40 ft. to
Spur, brs. SE. Desc. NE. slope, 415 ft. to
The cor. of secs. 5, 6, 7 and 8.
Land, mountainous.
Soil, 3rd and 4th rate.
No timber.
Undergrowth, greasewood, palo verde, cat claw, yucca and cacti.

40.00
-80.05

N. $0^{\circ} 3'$ W., on a random line, bet. secs. 5 and 6.
Set temp. $\frac{1}{4}$ sec. cor.
Intersect N. bdy. of Tp., 14 lks. E. of the cor. of secs. 5, 6, 31 and 32, which is an iron post, established by me, as described in Book "A".

Thence I run
S. $0^{\circ} 9'$ E., on a true line, bet. secs. 5 and 6.
Through scattering undergrowth. Desc. SW. slope, 65 ft. to
Wash, 10 lks. wide, course SE. Asc. NE. slope, 35 ft.
Spur, brs. SE. Desc. SE. slope, 70 ft. to
Wash, 5 lks. wide, course E. Asc. N. slope, 90 ft. to
Spur, brs. E. Desc. S. slope, 110 ft. to
Wash, 15 lks. wide, course SE. Asc. N. slope, 115 ft.

5.00
11.00
15.50
27.20
35.00

Chains

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;
 $\frac{1}{2}$ 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.
 Continue to asc. N. slope.

44.50 Spur, brs. E. Desc. S. slope, 55 ft. to

51.00 Wash, 10 lks. wide, course E. Asc. N. slope, 90 ft. to

56.00 Spur, brs. E. Desc. S. slope, 140 ft. to

64.30 Thence over rolling land.

80.05 The cor. of secs. 5, 6, 7 and 8.
 Land, rolling and mountainous.
 Soil, 4th rate.
 No timber.
 Undergrowth, greasewood, palo verde, yucca and cacti.
 R. D. A.
 Feb. 25, 1915.

GENERAL DESCRIPTION.

Land rolling and broken mesa, sloping generally to East. Mesa cut by many dry washes, all flowing to Big Sandy River. The west two tiers of sections are on Mc Cracken mountain, and the foot hills to the east. The soil is generally sandy and more or less rocky, with some clay. In places the sandy soil is several feet deep. but in some localities a hard pan is encountered a few inches below the surface. On the slopes of Mc Cracken mountain, the soil is very rocky and contains more clay. Here are many rocky ledges outcropping.

The vegetation consists of Giant Cactus, ocatilla, cholla, and palo verde. No grass of any kind in any quantity. Greasewood, iron wood, mesquite and cat claw are in evidence in all localities.

On Mc Cracken mountain, there are quite extensive mineral workings, the ore being gold quartz.

The only water known in the Tp. is at Rouphey's Well, in sec. 13. No settlers. A few poor looking cattle are at large in the Tp.

U. S. Surveyor.

U. S. Translator.

29 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 14 West,

of the Gila and Salt River Base and Meridian, Arizona,

executed by Irving W. Stoddard, U. S. Surveyor, and R. D. Armstrong, U. S. Trans-
 sitman under 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 "C", " _____, has been correctly copied from the original notes on file in this office.

Surveyor General of Arizona.