

2833

4-679

BOOK 2833

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Book "I"

FIELD NOTES

OF THE SURVEY OF ~~THE~~

PART OF THE

Subdivision Lines of Fractional T.5 N., R.15 E.

Of the Gila & Salt River Base & Meridian,

In the State of

Arizona

EXECUTED BY

Sidney E. Blout

In the capacity of U. S. Surveyor, under instructions dated October 24, 1913, issued by the United States Surveyor General to govern surveys included in Group No. 31, which were approved by the Commissioner of the General Land Office, November 1, 1913, pursuant to authority contained in the Act of Congress dated August 1, 1914,

Survey commenced Oct. 25, 1914

Survey completed Nov. 3, 1914

Book "I"

BOOK 2833

INDEX DIAGRAM.

Township *5 North*, Range *15 East*

6	4	5	8	4	15	8	24	2
		7		14		23		24
7	4	8	6	9	14	10	22	11
		6		13		21		22
18	3	17	5	16	13	15	21	14
		2		12		20		20
19		20	2	21	11	22	19	23
				10		18		19
30		29	1	28	10	27	17	26
				9		16		17
31		32	1	33	8	34	15	35

First Standard Parallel North

- Notes in Book "A"
- " " " "B"
- Unsurveyed

1B

Partial Subdivision of frac. Township 5 North Range 15 E.

Chains.

Survey commenced October 25, 1914, and executed with a Young and Sons' light mountain transit No. 10, described in Book "A."

I examine the adjustments of the transit, and find them correct, and know from recent tests of the solar apparatus, by comparing the results of observations on the sun, made during a.m. and p.m. hours, with a meridian established by observations on Polaris that the instrument is in satisfactory adjustment.

All measurements were made with a 5-chain steel tape and clinometer for determining the slope angles.

The western portion of this township being rough and mountainous with no agricultural land, I begin at the standard cor. of secs. 32 and 33, on the south bdy. of the township, (First Standard Parallel North) established by me, as described in Book "B." Latitude, 33° 43' 27" N.; longitude, 110° 49' W., and

At 7h. 44m. a.m., l.m.t., I set off 33° 43 1/4' N. on the lat. arc; 11° 55 1/2' S. on the decl. arc, and determine a meridian with the solar.

Thence I run, N. 0° 01' E., bet. secs. 32 and 33.

Descend NE. slope, over stony mountainous land, through scattering greasewood and cactus undergrowth, 3 ft. high.

- 4.60 Dry ravine, 30 lks. wide, course east. Ascend.
 - 14.70 Top of spur, brs. E. and W. Descend N. slope.
 - 20.50 Dry ravine, 20 lks. wide, course east. Ascend abrupt S. slope.
 - 28.10 Top of spur, brs. NE. and SW. Descend.
 - 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for 1/4 sec. cor., marked on brass cap,
 - 1/4 S 32 in W.,
 - 1914 in S., and
 - S 33 in E. half;
 raise a mound of stone 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.
 - 58.80 Dry ravine, 20 lks. wide, course S. 70° E. Ascend.
 - 76.10 Top of spur, brs. NW. and SE. Descend.
 - 80.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 28, 29, 32 and 33, marked on brass cap,
 - T 5 N, R 15 E in N., and
 - 1914 in S. half;
 - S 29 in NW.,
 - S 28 in NE.,
 - S 33 in SE., and
 - S 32 in SW. quadrant;
 raise a mound of stone 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.
- Land, mountainous.
 Spurs with steep slopes, washed.
 Soil, stony, 4 to 8 ins. deep on clay subsoil.
 Good growth bunch grass.
 No timber.

N. 0° 01' E., bet. secs. 28 and 29.

Descend N. slope of spur, over mountainous land, through scattering greasewood and catclaw timber and brush.

- .85 Dry ravine, 10 lks. wide, course N. 60° E. Ascend.
- 3.20 Top of spur, brs. NE. and SW. Descend.
- 8.00 Dry ravine, 20 lks. wide, course S. 70° E. Ascend.
- 25.00 Top of spur, brs. NW. and SE. Descend.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for 1/4 sec. cor., marked on brass cap,
 - 1/4 S 29 in W.,
 - S 28 in E., and
 - 1914 in S. half;

2. Partial Subdivision of frac. Township 5 North, Range 15 E

Chains

no trees suitable for bearing trees within limits; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, west of cor. Pits impracticable.

46.80 Dry sand wash, 50 lks. wide, course east. Ascend.
 61.20 Top of spur, brs. east and west. Descend.
 69.70 Dry ravine, 20 lks. wide, course east. Ascend.
 74.50 Top of spur, brs. east and west. Descend.
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 20, 21, 28 and 29, marked on brass cap,

T 5 N, R 15 E in N., and
 1914 in S. half;
 S 20 in NW.,
 S 21 in NE.,
 S 28 in SE., and
 S 29 in SW. quadrant;

no trees within limits; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, west of cor. Pits impracticable. Land, mountainous; spurs steep washed on slopes. Soil, stony clay loam on clay subsoil. Good growth bunch grass. Timber, scattering catclaw and cedar.

N. $0^{\circ}01'E.$, bet. secs. 20 and 21.
 Descend NE. slope, over rolling, mountainous land, through scattering mesquite and cedar timber and greasewood brush undergrowth, 2 to 4 ft. high.

6.40 Dry ravine, 10 lks. wide, course S. $40^{\circ} E.$ Ascend steeply.
 9.90 Top of spur, brs. NE. and SW. Descend gradually.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$ S 20 in W.,
 S 21 in E., and

1914 in S. half; from which,
 A cedar, 12 ins. in diam., brs. S. $51^{\circ} E.$, 40 lks. dist., marked $\frac{1}{4}$ S 21 BT.
 A cedar, 8 ins. in diam., brs. S. $44\frac{1}{2}^{\circ} W.$, 34 lks. dist., marked $\frac{1}{4}$ S 20 BT.

Note: At this cor., I set off $12^{\circ} S.$ on the decl. arc, and at apparent noon, observe the sun on the meridian, the resulting lat. being $33^{\circ}46' N.$

47.40 Dry ravine, 50 lks. wide, course east. Ascend.
 68.80 Top of spur, brs. E. and W.; descend.
 77.60 Dry ravine, 20 lks. wide, course east. Ascend SW. slope.
 80.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 16, 17, 20 and 21, marked on brass cap,

T 5 N, R 15 E in N., and
 1914 in S. half;
 S 17 in NW.,
 S 16 in NE.,
 S 21 in SE.; and
 S 20 in SW. quadrant;

no trees within limits; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, west of cor. Pits impracticable. Land, mountainous; slopes to the east and northeast. Spurs steep, washed on north slopes. Soil, light, poor, dry clay loam. on stony clay subsoil. Good growth bunch grass. Timber, scattering cedar and mesquite.

West, on a true line, bet. secs. 17 and 20.

Ascend SE. slope, of spur, over stony, mountainous land, through scattering mesquite and catclaw brush undergrowth

Partial Subdivision of frac. Township 5 North Range 15 East. 3.

Chains.

undergrowth, 3 to 5 ft. high.

10.60 Top of spur, brs. NW. and SE. Descend.

14.40 Dry ravine, 10 lks. wide, course S. 60° E. Ascend.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 17 in N., and
 $\frac{1}{4}$ S 20, 1914 in S. half;
 raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.

78.00 Point of rocky spur, brs. NW. and SE. Descend over SW. slope.

80.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 17, 18, 19 and 20, marked on brass cap,
 T 5 N, R 15 E in N., and
 1914 in S. half;
 S 18 in NW.,
 S 17 in NE.,
 S 20 in SE., and
 S 19 in SW. quadrant;
 raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, west of cor. Pits impracticable.

Land, rolling, mountains, slopes to the east.
 Soil, light, dry stony and adobe clay loam, 3 to 6 ins. deep on clay and shale subsoil.
 Good growth bunch grass.
 No timber.
 This corner is at foot of high cliffs on west side of Cherry Creek.

October 25, 1914.

October 26, 1914. At 7h. 14m., a.m., l.m.t., I set off 33° 46' N. on the lat. arc; 12° 15' 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° 1' E., bet. secs. 17 and 18.
 Ascend abruptly over rocky SE. slope of spur, through catclaw and cactus undergrowth.

19.80 Top of spur, brs. E. and W. Descend abruptly into rocky canyon.

20.90 Bottom of canyon, cross dry ravine, 20 lks. wide, course S. 40° E. Ascend abruptly.

35.50 Top of spur, brs. NE. and SW. Descend.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 18 in W.,
 $\frac{1}{4}$ S 17 in E., and
 1914 in S. half;
 raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of corner. Pits impracticable.

41.70 Dry ravine, 20 lks. wide, course N. 70° E. Ascend.

49.55 Top of spur, brs. NE. and SW. Descend.

72.50 Dry ravine, 10 lks. wide, course N. 50° E. Ascend.

80.00 Top of stony spur brs. E. Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 7, 8, 17 and 18, marked on brass cap,
 T 5 N R 15 E in N., and
 1914 in S. half; S 7 in NW.,
 S 8 in NE.,
 S 17 in SE., and
 S 18 in SW. quadrant;
 raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, west of cor. Pits impracticable.

Land, mountainous; spurs steep, covered with loose stone.
 Soil, light dry, stony loam, 4 to 6 ins. deep on dry stone and clay subsoil. Light growth bunch grass.

X 1914 in S. half

4. Partial Subdivision of frac. Township 5 North, Range 15 E.
Chains.

Timber, scattering cedar and mesquite along bottom of ravines.

N.0°1'E., bet. secs. 7 and 8.

Descend north slope of spur, over stony, mountainous land, through scattering cedar and mesquite timber and mountain mahogany and oak brush undergrowth, 4 to 6 ft. high.

14.20 Dry creek bed 20 lks. wide, course N.40° E. Ascend abruptly.

20.60 Top of spur, brs. NE. and SW. Descend.

34.90 Dry ravine, 30 lks. wide, course east. Ascend.

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

$\frac{1}{4}$ S 7 in W.,
S 8 in E., and
1914 in S. half;

no trees suitable for bearing trees within limits; raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, west of corner. Pits impracticable.

This corner is situated on the top of spur, brs. NE. and SW. Descend.

46.30 Dry ravine, 30 lks. wide, course S.70°E. Ascend abruptly.

67.30 Top of spur, brs. NE. and SW. Descend.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 5, 6, 7 and 8, marked on brass cap,

T 5 N, R 15 E in N., and
1914 in S. half;
S 6 in NW.
S 5 in NE.
S 8 in SE. and
S 7 in SW. quadrant;

no trees suitable for bearing trees within the prescribed limits; raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, west of cor.

Pits impracticable.

Land, mountainous, slopes to the NE. Spurs steep, covered with loose rock.

Soil, dry, stony, underlaid with stone and clay subsoil.

Light growth bunch grass.

Timber, scattering cedar, oak and mesquite.

Note: At this corner I set off 12°20'S. on the decl. arc; and at apparent noon, observe the sun on the meridian and obtain a reading of 33°48'N. on the lat. arc.

N.0°1'E., on a random line, bet. secs. 5 and 6.

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

79.84 Intersect north bdy. of Tp., 12 lks. east of the cor. of secs. 5, 6, 31 and 32, established by me, as described in Book "A."

Thence I run,

S.0°04'E., on a true line, bet. secs. 5 and 6.

Ascend gradually NE. slope, over stony, mountainous land, through scattering mesquite and catclaw timber and brush.

17.60 Top of spur, brs. N.80°E. and S.80°W. Descend.

20.60 Dry ravine, 40 lks. wide, course east. Ascend.

32.84 Top of spur, brs. E. and W. Descend 150 ft.

33.75 Wire fence brs. E. and W.

38.25 Dry ravine, course east. Ascend.

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

$\frac{1}{4}$ S 6 in W.,
S 5 in E., and
1914 in S. half;

Chains.

- no trees suitable for bearing trees within the prescribed limits; raise a mound of stone 2 ft. base, 1½ ft. high, west of cor. Pits impracticable.
- 45.69 Top of spur, brs. NE. and SW. Descend.
- 58.79 Dry ravine, 20 lks. wide, course N. 70° E. Ascend abruptly over broken spurs and ravines.
- 79.84 The cor. of secs. 5, 6, 7 and 8.
Land, mountainous, slopes to the NE.
Soil, stony, 4th rate.
Timber, scattering oak, mesquite and cedar.
October 26, 1914.

- October 30, 1914: At 7h. 30m. a.m., l.m.t., I set off 33°46' N. on the lat. arc; 13°36' 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°1' E., bet. secs. 16 and 17.
Ascend south slope of spur, over stony, mountainous land, through scattering ocotillo and catclaw brush.
- 14.50 Top of spur, brs. N. 80° E. and S. 80° W. Descend NW. slope.
- 24.60 Dry ravine, 25 lks. wide, course east. Ascend.
- 28.40 Top of spur, brs. E. and W. Descend.
- 33.70 Dry ravine, 30 lks. wide, course east. Ascend.
- 39.80 Top of spur, brs. E. and W. Descend.
- 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,
S 17 in W.,
S 16 in E., and
1914 in S. half;
raise a mound of stone 2 ft. base, 1½ ft. high, west of cor. Pits impracticable.
- 62.10 Top of bluff, 50 ft. high along south side of Cherry Creek, brs. NW. and SE.; descend.
- 64.00 Foot of bluff, brs. NW. and SE.; leave mountainous land brs. NW. and SE.; enter rolling, stony bottom land in Cherry Creek Valley.
- 64.05 Road from Roosevelt, Arizona, to settlements on Cherry Creek, brs. N. 30° W. and S. 30° E.
- 79.10 Center of Cherry Creek, 40 lks. wide, 6 ft. deep, course S. 35° E.; thence over stony bottomland subject to overflow to a depth of from 1 to 3 ft.
- 80.00 The point for the cor. of secs. 8, 9, 16 and 17, falls on unsafe ground; therefore, I continue my line and measurement, and at
- 85.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground for witness cor. to the cor. of secs. 8, 9, 16 and 17, marked on brass cap,
W C S. of center,
T 5 N R 15 E in N., and
S 16, S 17 1914 in S. half;
S 8 in NW., and
S 9 in NE. quadrant;
raise a mound of stone 2 ft. base, 1½ ft. high, west of cor. Pits impracticable.
- From this corner the chimney on John Armour's house brs. N. 39° 30' W.
Barn brs. N. 35° 20' W.
South 64 chs. mountainous; soil, light dry clay, stony loam, 2 to 6 ins. deep on clay and gravelly subsoil.
Good growth bunch grass.
North 16 chs. rolling bottom land; soil, gravelly river bottom on gravelly subsoil.
No timber.

6. Partial Subdivision of frac. Township 5 North Range 15 E.
Chains

- From point for cor. of secs. 8, 9, 16 and 17, I run,
West, on a random line, bet. secs. 8 and 17.
- 40.00 Set temp. sec. cor.
- 80.06 Intersect N- and S. line, 10 lks. north of the cor. of secs.
7, 8, 17 and 18.
- Thence I run,
N. $89^{\circ}56'E.$, on a true line, bet. secs. 8 and 17.
- Descend abrupt rocky SE slope, over mountainous land,
through oak and manzanita brush and scattering oak
and cedar timber. Descend 300 ft. to
- 35.50 Dry ravine, 40 lks. wide, course N. $70^{\circ}E.$ Ascend abrupt
NW. slope of spur.
- 40.03 Set an iron post 3 ft. long, 1 in. indiam., 26 ins. in
the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 8 in N., and
 $\frac{1}{4}$ S 17, 1914 in S. half;
- no trees large enough for bearing trees within limits.
Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
Pits impracticable.
- From this corner, the chimney of John Armour's house brs.
N. $26^{\circ}26'E.$
- Armour's barn brs. N. $34^{\circ}E.$ Ascend 30 ft. to
- 42.00 Top of spur, brs. N. $70^{\circ}E.$ and S. $70^{\circ}W.$ Descend abrupt SE.
slope; leave timber, brs. NE. and SW.
- 62.65 Foot of abrupt descent in dry sand wash, course N. $70^{\circ}E.$
- 65.06 Leave sand wash; ascend NW. slope of spur.
- 66.16 Top of spur, brs. NE. and SW. Descend.
- 68.50 Foot of descent in Cherry Creek bottom; leave mountainous
land, brs. NW. and SE.; enter rolling, stony creek
bottom land.
- 72.86 Road from Roosevelt, Arizona, to the settlements on Cherry
Creek, brs. N. and S.
- 79.26 Center of Cherry Creek, 40 lks. wide, S. $35^{\circ}E.$
- 80.06 The point for cor. of secs. 8, 9, 16 and 17.
Land, mountainous, slopes to the SE.
Soil, stony and gravelly, 4 to 8 ins. deep on clay and
stone subsoil.
Light growth bunch grass.
Timber, scattering oak, cedar and mesquite.
- Note: At 11h. 30m. am. heavy rain prevents further work
this day.

October 30, 1914.

- November 1, 1914: At 7h. 14m. a.m., 1.m.t., I set off
 $33^{\circ}47'N.$ on the lat. arc; $14^{\circ}14\frac{1}{2}'S.$ on the decl. arc;
and determine a meridian with the solar at the true
point for cor. of secs. 8, 9, 16 and 17.
- Thence I run,
N. $0^{\circ}1'E.$, bet. secs. 8 and 9,
Over level sandy bottom land.
- 1.90 Wire fence brs. N. $30^{\circ}W.$ and S. $30^{\circ}E.$
- 4.00 Leave creek bottom; ascend SW. slope, through dense
water mote brush.
- 5.00 The witness cor. to the corner of secs. 8, 9, 16 and 17.
- 5.50 Ascend steep creek bluffs.
- 17.20 Top of ascent on bluff, 50 ft. above creek bottom, brs.
N. $20^{\circ}W.$ and S. $20^{\circ}E.$; thence over rolling land.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 8 in W.,
S 9 in E., and
1914 in S. half;
- raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of
cor. Pits impracticable.
- 50.00 Leave rolling land, brs. NW. and SE.; ascend steep SW.
slope, over stony mountainous land.

Partial Subdivision of frac. Township 5 North Range 15 East. 7

Chains.

- 63.50 Top of spur, brs.NE. and SW. Descend 50 ft. to
 65.40 Dry ravine, course west; ascend abruptly.
 67.75 Wire fence, brs. N.60° E. and S.60°W.
 72.90 Top of spur, brs.N.70°W. and S.70°E. Descend NW.slope.
 80.00 Set an iron post 3 ft.long, 2 ins. in diam., 24 ins. in
 the ground for cor.of secs.4,5,8 and 9, marked on
 brass cap,
 T 5 N R 15 E in N., and
 1914 in S.half;
 S 5 in NW.
 S 4 in NE.
 S 9 in SE., and
 S 8 in SW.quadrant;
 raise a mound of stone 2 ft.base, 1½ ft.high, west
 of cor. Pits impracticable.
 South 50 chs.rolling SW. slope; soil, sandy and gravelly
 loam, 6 to 10 ins.deep on clay subsoil.
 Good growth bunch grass.
 North, 30 chs. mountainous, spurs steep, covered with
 loose boulders deposited by glacial action.
 Soil, stony worthless.
 Light growth grass.
 No timber.
-
- 40.00 S. 89°56'W., on a random line, bet.secs. 5 and 8.
 Set temp.¼ sec.cor.
 80.12 Intersect N.and S. line, 5 lks.south of the cor.of secs.
 5,6,7 and 8.
 Thence I run,
 N.89°58'E., on a true line, bet. secs.5 and 8.
 Descend abrupt rocky E. slope of spur, over mountainous
 land, through dense oak brush and scattering cedar
 and oak timber.
 23.80 Foot of descent in Cherry Creek bottom; leave mountainous
 land, brs.N.10°W. and S.10°E.; enter level, sandy
 and gravelly bottom land; leave timber, brs.N.and S.
 23.92 Wire fence brs.N.10°W. and S, 10°E.
 27.82 Wire fence brs.N.and S.
 32.32 Center of Cherry Creek, 50 lks.wide, 6 ins.deep, course
 S.20° W.
 35.08 Wire fence brs.N.and S.
 37.32 Wire fence brs.N.10°W and S.10°E.
 37.42 Irrigating ditch, 3 lks.wide, course S.10°E. Leave bot-
 tom land, brs.N.10°W. and S.10°E. Ascend W. slope
 of bluff.
 38.50 Top of bluff, 40 ft.above creek bottom, brs.N.10°W.
 and S.10°E. Thence over stony mesa land.
 40.06 Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in
 the ground for ¼ sec.cor., marked on brass cap,
 ¼ S 5 in N., and
 S 8, 1914 in S.half;
 raise a mound of stone 2 ft.base, 1½ ft.high, N.of
 cor. Pits impracticable.
 From this cor., Lazier's house brs.S.28°E., 18 chs.dist.
 41.43 Wire fence brs.N.30°W.and S.30°E.
 65.15 Top of ridge, brs.NE. and SW. Descend into sand wash.
 71.00 Foot of descent in sand wash, 80 lks.wide, course S.60°
 W.; leave rolling land, brs.N.and S.; enter stony
 mountainous land. Ascend steep NW. slope of spur.
 80.12 The cor.of secs.4,5,8 and 9.
 West, 23 chs. rugged mountains.
 Soil, poor, dry, stony clay loam, 2 to 6 ins.deep on stony clay
 Light growth bunch grass. (subsoil.)
 East 57 chs.rolling, level and mountainous.
 Soil of the creek bottom and bench lands sandy and
 adobe loam, 6 to 12 ins.deep on clay and gravelly
 subsoil. The soil of the mountainous portion stony

8. Partial Subdivision of free Township 5 North Range 15 E.
Chains.

on clay subsoil.
Good growth bunch grass.
Timber, oak and cedar.

-
- 40.00 N.0°01'E., on a random line, bet. secs.4 and 5.
Set temp. $\frac{1}{4}$ sec.cor.
- 80.00 Intersect north bdy. of Tp.8 lks.east of the cor.of secs.
4,5,32 and 33, established by me, as described in
Book "A."
Thence I run,
S.0°2'E., on a true line, bet. secs.4 and 5.
Ascend NE. slope, over stony mountainous land, through
scattering greasewood and cactus undergrowth, 2 to
4 ft.high.
- 4.60 Top of spur, brsl NW. and SE. Descend.
- 10.50 Dry ravine, 10 lks.wide, course S.50°E. Ascend.
- 16.50 Top of ridge, brs.S.40°E. Descend.
- 22.30 Dry ravine, 20 lks.wide, course S.60°E. Ascend.
- 32.60 Top of ridge, brs.S.40°E. Descend.
- 40.00 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in
the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap,
 $\frac{1}{4}$ S 5 in W.,
S 4 in E., and
1914 in S.half;
raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft. high,W. of
cor. Pits impracticable.
- Note: At this cor.,I set off 14°20'S.on the decl.arc;
and at apparent noon, observe the sun on the meridian,
and obtain a reading of 33°48' N.on the lat.arc:
- 53.90 Dry ravine,25 lks.wide, course S.30°E. Ascend abruptly
150 ft.to
- 60.30 Top of ridge, brs.N.60°W. and S.60°E. Descend abruptly
200 ft.to
- 70.90 Foot of descent in dry sand wash, course west. Ascend
abruptly.
- 80.00 The cor.of secs.4,5,8 and 9.
Land, mountainous, spurs and ridges, with steep slopes
covered with loose stone.
Soil, stony 3 to 6 ins. deep on clay subsoil.
Good growth bunch grass.
No timber.

November 1, 1914.

-
- October 27, 1914. At 7h. 44m., a.m.,l.m.t., I set off
33°43 $\frac{1}{2}$ 'N. on the lat.arc; 12°36 $\frac{1}{2}$ 'S. on the decl.arc;
and determine a meridian with the solar at the stand-
ard cor.of secs. 33 and 34 on south bdy.of Tp.(First
Standard Parallel North) established by me, as de-
scribed in Book "B."
Thence I run,
N.0°2'E., bet. secs.33 and 34.
Descend NW. slope of spur,over stony mountainous land,
through greasewood and catclaw brush undergrowth.
- 16.20 Foot of descent in dry sand wash, course west; enter mes-
quite timber, brs.E.and W.
- 18.70 Leave sand wash and timber, brs.E.and W. Ascend S.slope.
- 22.35 Top of spur, brs.NE. and SW. Descend.
- 38.45 Dry sand wash, 75 lks.wide, course west. Ascend.
- 40.00 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in
the ground for $\frac{1}{4}$ sec.cor., marked on brass cap,
 $\frac{1}{4}$ S 33 in W.,
S 34 in E., and
1914 in S.half;
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, west
of cor.

Partial Subdivision of frac. Township 5 North, Range 15 East.

Chains.

50.00 Pits impracticable.
Top of spur, brs. E. and W. Descend into Cherry Creek bottom.

54.10 Foot of descent in Cherry Creek bottom; leave mountainous land, brs. N. 50° E. and S. 50° W.; enter rolling, sandy bottom land and mesquite timber, brs. NE. and SW.

72.30 Road from Roosevelt, Arizona, to settlements on Cherry Creek, brs. N. 40° E. and S. 40° W.

73.60 Left bank of Cherry Creek, 4 ft. high brs. N. 40° E. and S. 40° W.; leave timber and undergrowth, over dry creek bed.

80.00 The point for the cor. of secs. 27, 28, 33 and 34 falls in dry bed of Cherry Creek; therefore, at

73.25 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for witness cor. to the cor. of secs. 27, 28, 33 and 34, marked on brass cap,
W C N. of center,
T 5 N, R 15 E, S 27, S 28 in N., and
1914 in S. half,
S 34 in SE., and
S 33 in SW. quadrant; from which
A sycamore, 20 ins. in diam., brs. S. 68° E., 148 lks. dist., marked T 5 N R 15 E S 34 B T.
No other trees available. Raise a mound of stone 2 ft. base, 1½ ft. high, west of cor. Pits impracticable.
South, 54 chains mountainous, spurs with steep slopes covered with loose stone.
Soil, stony 4 to 6 ins. deep on clay subsoil.
North, 26 chs., light, dry, sandy loam, 12 to 30 ins. deep on clay and gravelly subsoil.
Light growth bunch grass.
Timber, mesquite and sycamore.

40.00 From point for corner of secs. 27, 28, 33 and 34, I run West, on a random line, bet. secs. 28 and 33.

79.98 Set temp. ¼ sec. cor.
Intersect N. and S. line, 2 lks. north of the cor. of secs. 28, 29, 32 and 33.
Thence I run,
N. 89° 59' E., on a true line, bet. secs. 28 and 33.
Ascend NW. slope of spur, over stony mountainous land, through greasewood and catclaw brush undergrowth, 4 ft. high.

4.10 Top of spur, brs. NE. and SW. Descend.

17.00 Dry ravine, 25 lks. wide, course S. 70° E. Ascend over NW. slope.

39.99 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for ¼ sec. cor., marked on brass cap,
¼ S 28 in N., and
S 33, 1914 in S. half;
raise a mound of stone 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.

46.60 Dry sand wash, 50 lks. wide, course N. 60° E. Ascend.

53.60 Top of spur, brs. NE. and SW. Descend NE. slope, into Cherry Creek bottom.

72.40 Foot of descent in Cherry Creek bottom; leave mountainous land, brs. N. and S. Enter level, sandy and gravelly bottom land.

77.00 Dry bed of Cherry Creek, course S. 40° W.

79.98 The true point for cor. of secs. 27, 28, 33 and 34.
West 73 chs., mountainous, drains to the east; spurs steep and stony, washed on slopes. Soil, stony 3 to 6 ins. deep on clay and gravel subsoil.
Light growth bunch grass.
East 7 chs. gravelly river bottom land. No soil.
No timber.

10. Partial Subdivision of frac. Township 5 North, Range 15 E.

Chains.

- N.0°2'E., bet. secs. 27 and 28, from the true point for cor. of secs. 27, 28, 33 and 34.
Over level, sandy and gravelly creek bottom.
- 15.00 Intersect left bank of Cherry Creek, brs. NW. and SE.; leave gravelly creek bed; enter sandy bottom land and dense undergrowth of water mote and scattering mesquite timber, brs. NW. and SE.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 28 in W.,
S 27 in E., and
1914 in S. half;
no trees within the prescribed limits; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, west of cor. Pits impracticable.
- 72.08 Wire fence brs. E. and W., extends east 6.00 chs. and west 3.00 chs. dist.
- 80.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 21, 22, 27 and 28, marked on brass cap,
T 5 N, R 15 E in N., and
1914 in S. half;
S 21 in NW.,
S 22 in NE.,
S 27 in SE., and
S 28 in SW. quadrant;
no trees within the prescribed limits; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, west of cor. Pits impracticable.
South 15 chs. level sandy creek bed; no soil or vegetation.
North 65 chs. level sandy bottom land; soil, rich moist sandy loam on gravelly subsoil; depth of soil, 12 to 36 ins.
Dense undergrowth.
Timber, scattering mesquite and catclaw.
- Note: At this corner, I set off, $12^{\circ}41'N.$ on the decl. arc; and at apparent noon, observe the sun on the meridian, the resulting latitude being $33^{\circ}45\frac{1}{2}'N.$
-
- S. $89^{\circ}59'W.$ on a random line, bet. secs. 21 and 28.
Set temp. $\frac{1}{4}$ sec. cor.
- 40.00 Intersect N. and S. line, 5 lks. S. of the cor. of secs. 20, 21, 28 and 29.
Thence I run,
S. $89^{\circ}59'E.$, on a true line, bet. secs. 21 and 28.
Descend east slope, over broken, mountainous land, through scattering catclaw and mesquite brush.
- 7.74 Dry sand wash, 25 lks. wide, course S. $70^{\circ}E.$ Ascend SW. slope, 40 ft. to
- 28.74 Top of spur, brs. NW. and SE. Descend NE. slope.
- 40.07 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 21 in N., and
S 28, 1914 in S. half;
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
- 46.60 Dry ravine, 10 lks. wide, course N. $10^{\circ}E.$ Ascend.
- 53.80 Top of spur, brs. NE. and SW. Descend bluff, 50 ft. high.
- 68.45 Foot of bluff, brs. N. $10^{\circ}W.$ and S. $10^{\circ}E.$; enter dry bed of Cherry Creek; leave mountainous land and undergrowth, brs. N. and S., over level, sandy creek bottom.
- 79.00 Intersect left bank of Cherry Creek, brs. N. and S.; leave sandy and gravelly creek bed, over level, sandy bottom land, covered with dense undergrowth.
- 79.64 Wire fence, brs. N. $50^{\circ}E.$ and S. $50^{\circ}W.$
- 80.14 The cor. of secs. 21, 22, 27 and 28.

Partial Subdivision of frac. Township 5 North, Range 15 E. 11.

Chains.

West, 68 chs. stony, mountainous land; soil, stony, 4 to 8 ins. deep on clay subsoil. Good growth bunch grass.
 East, 12 chs. level, sandy and gravelly bottom land; soil, sandy loam with considerable gravel and sand 12 ins. to 20 ins. deep on gravel subsoil.
 No timber.

- N.0°2'E., bet. secs. 21 and 22.
 Over level, sandy bottom land, through dense water mote and catclaw brush undergrowth, 4 to 6 ft. high.
- 3.50 Wire fence, brs. N.30°E. and S.30°W.
 - 4.00 Intersect left bank of Cherry Creek, 4 ft. high, brs. N.40°E. and S.40°W.; leave undergrowth, over gravelly creek bed.
 - 11.26 A point from which A.L. Campbell's house brs. N.88°30'E., 7.00 chs. dist.
 - 11.50 Intersect left bank of Cherry Creek 2 ft. high, brs. NW. and SE.; enter dense water mote and catclaw brush 6 ft. high, and scattering mesquite and desert willow timber.
 - 33.00 Intersect left bank of Cherry Creek, 2½ ft. high, brs. NE. and SW.; leave timber and undergrowth, brs. NE. and SW.; over sandy creek bed.
 - 40.00 The point for the ¼ sec. cor. falls in dry bed of Cherry Creek; therefore, at
 - 32.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for witness cor. to the ¼, sec. cor., marked on brass cap,
 W. C ¼ N of center,
 S 22 in SE.; and
 S 21 in SW. quadrant;
 1914 in S. half;
 no trees suitable for bearing trees within limits; raise a mound of stone 2 ft. base, 1½ ft. high, west of corner. Pits impracticable.
 - Note: From this corner, Cor. No. 2 of H.E.S. No. 150
 brs. N.35°05'E., 37 lks. dist.
 - 45.00 Intersect left bank of Cherry Creek, brs. NW. and SE.; leave sandy and gravelly creek bed; enter level sandy bottom land and dense catclaw and water mote brush 4 to 8 ft. high, brs. NW. and SE.
 - 51.70 Road from Roosevelt, Arizona to settlements on Cherry Creek, brs. N.20°W. and S.20°E.
 - 52.00 Leave level, sandy bottom land, brs. NW. and SE.; enter stony, mountainous land. Ascend SW. slope of spur.
 - 52.60 Irrigating ditch 4 lks. wide, course S.40° E.
 - 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 15, 16, 21 and 22, marked on brass cap,
 T 5 N, R 15 E in N., and
 1914 in S. half;
 S 16 in NW.,
 S 15 in NE.,
 S 22 in SE., and
 S 21 in SW. quadrant;
 no trees within limits; raise a mound of stone 2 ft. base, 1½ ft. high, west of cor. Pits impracticable.
- South 52 chs., level bottom land; soil, moist sandy loam, with considerable loose sand and gravel, 12 to 24 ins. deep on gravel subsoil.
 North, 28 chs. mountainous land, covered with loose stone; soil, stony dry clay loam on clay subsoil.
 Timber, scattering mesquite.

October 27, 1914.

12 Partial Subdivision of frac. Township 5 North Range 15 E.

Chains.

October 29, 1914: At 3h.14m., p.m., 1 m.t., I set off
 $33^{\circ}46'N.$ on the lat.arc; $13^{\circ}24'S.$ on the decl.arc;
 and determine a meridian with the solar at the cor.
 of secs.15,16,21 and 22.

Thence I run,
 $N.89^{\circ}59'W.$, on a random line, bet. secs.16 and 21.

40.00 Set temp. $\frac{1}{4}$ sec.cor.
 80.26 Intersect N.and S. line, 18 lks.S.of the cor.of secs.16,
 17, 20 and 21.

Thence I run,
 $S.89^{\circ}51'E.$, on a true line, bet. secs.16 and 21.

Ascend steep west slope of spur, over stony, mountainous
 land. Ascend 25 ft. to

2.30 Top of spur, brs.N.and S. Descend east slope.
 17.20 Foot of descent in sand wash, course $N.70^{\circ}E.$; enter mes-
 quite and catclaw timber and brush; thence along south
 side of sand wash.

27.80 Same sand wash, 40 lks.wide, course $S.70^{\circ}E.$ Ascend along
 steep south slope; leave timber, brs.NW. and SE.

31.00 Point of spur, brs.NW. and SE. Descend into Cherry Creek
 bottom.

34.20 Foot of descent in Cherry Creek bottom, brs.N.and S.;
 leave mountainous land, brs.N.and S.; enter sandy
 bottom land, subject to overflow to a depth of 2 to
 3 ft.

38.60 Center of Cherry Creek, cross stream 30 lks.wide, 6 ins.
 deep, course $S.10^{\circ}E.$

40.13 The point for the $\frac{1}{4}$ sec.cor. falls in Cherry Creek;
 therefore, I continue my line and measurement.

40.25 Intersect left bank of Cherry Creek, brs.NE. and SW.;
 enter dense undergrowth, brs.NW. and SE.

40.30 Wire fence, brs. $N.20^{\circ}W.$ and $S.20^{\circ}E.$ in diam. 6 ins. in
 41.00 Settan iron post 3 ft. long, 3 ins. in diam., 26 ins. in the
 ground for witness cor. to the $\frac{1}{4}$ sec.cor., marked on brass
 cap,
 W C $\frac{1}{4}$ W. of center,
 1914 in S. half;
 S 16 in NE., and
 S 21 in SE. quadrant;
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of
 cor. Pits impracticable.

From this cor. Cor. No.4 of H.E.S. No.149 brs. $S.70^{\circ}27'E.$,
 19.25 chs. dist.

47.20 Wire fence brs. $N.20^{\circ}E.$
 48.70 Wire fence brs. $N.10^{\circ}E.$; enter cultivated land, brs.NE.
 and SW.

50.50 Irrigating ditch, 4 lks.wide, course $S.20^{\circ}E.$
 51.00 Wire fence, brs. $N.40^{\circ}W.$ and $S.40^{\circ}E.$; leave cultivated
 land.

51.30 Road from Roosevelt, Arizona to settlements on Cherry
 Creek, brs. $N.40^{\circ}W.$ and $S.40^{\circ}E.$

52.00 A point from which Banning's house brs.S.1.00 chain dist.
 52.50 Leave level, sandy bottom land, brs.NW. and SE. Ascend
 steep rocky SW. slope of spur, over mountainous land.
 Ascend 100 ft. to

62.20 Top of spur, brs.NE. and SW. Descend abruptly:
 67.10 Bottom of dry ravine, course south. Ascend abruptly.
 79.00 Top of spur, brs.NE. and SW. Descend gradually.
 80.26 The cor. of secs.15,16,21 and 22.

West 34 chs. mountainous land, spurs steep covered with
 loose stone; soil, stony, 2 to 6 ins. deep on clay
 and stone subsoil.
 Light growth bunch grass.
 East, 46 chs. level and mountainous. Soil, of the bottom
 lands along Cherry Creek, rich moist sandy loam, 12
 to 16 ins. deep, on gravelly subsoil. Soil of the
 mountainous portion, stony clay loam, about 6 ins. deep
 on clay and limestone shale subsoil.
 Timber, scattering mesquite and catclaw.

October 29, 1914.

Partial Subdivision of frac. Township 5 North Range 15 E. 13.

Chains.

- October 31, 1914: At 12h.44m. p.m., l.m.t., I set off 33° 46' N. on lat. arc; 14° 01½' S. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 15, 16, 21 and 22.
- Thence I run,
N. 0° 02' E., bet. secs. 15 and 16.
- Ascend SE. slope of spur, over stony mountainous land, through greasewood brush undergrowth, 3 ft. high.
- 10.00 Top of spur, brs. NE. and SW.; descend.
- 23.00 Dry ravine, 20 lks. wide, course S. 20° W.; ascend.
- 31.00 Top of spur, brs. N. 30° E. and S. 30° W. Descend.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for ¼ sec. cor., marked on brass cap,
¼ S 16 in W.,
¼ S 15 in E., and
1914 in S. half; from which,
A cedar, 10 ins. in diam., brs. N. 86° W., 21 lks. dist., marked ¼ S 16 B T.
- No other trees within limits; raise a mound of stone 2 ft. base, 1½ ft. high, west of cor. Pits impracticable.
- 45.00 Enter dry sand wash and mesquite and catclaw timber, brs. NE. and SW.
- 46.50 Center of sand wash, course S. 50° W.
- 48.00 Leave sand wash and timber, brs. NE. and SW. Ascend SE. slope of spur.
- 80.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 9, 10, 15 and 16, marked on brass cap,
T 5 N R 15 E in N., and
1914 in S. half;
S 9 in NW.
S 10 in NE.
S 15 in SE., and
S 16 in SW. quadrant;
raise a mound of stone 2 ft. base, 1½ ft. high, west of cor. Pits impracticable..
- Land, mountainous, drains to the SW.
Soil, stony, 4 to 8 ins. deep on clay and shale subsoil.
Good growth bunch grass.
Timber, scattering mesquite and catclaw.
-
- N. 89° 51' W. on a random line, bet. secs. 9 and 16.
- 40.00 Set temp. ¼ sec. cor.
- 80.22 Intersect N. and S. line, 21 lks. north of the point for cor. of secs. 8, 9, 16 and 17.
- Thence I run,
East, on a true line, bet. secs. 9 and 16.
Over level sandy creek bed.
- .70 Intersect left bank of Cherry Creek; leave sandy creek bottom, over sandy bottom land, covered with dense undergrowth of water mite and scattering mesquite timber.
- 1.23 Wire fence brs. N. 30° W. and S. 30° E.
- 3.00 Leave level bottom land, brs. NW. and SE.; enter mountainous land; ascend steep SW. slope.
- 9.50 Top of bluff, 40 ft. high, brs. NW. and SE. Descend.
- 17.25 Foot of descent in dry sand wash, course SW.; wire fence NE. and SW.
- 21.10 Leave sand wash; ascend steep NW. slope.
- 40.11 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for ¼ sec. cor., marked on brass cap,
¼ S 9 in N., and
S 16, 1914 in S. half;
no trees suitable for bearing trees within the prescribed limits; raise a mound of stone 2 ft. base, 1½ ft. high, north of cor. Pits impracticable.
- 45.00 Top of ridge, brs. NE. and SW.; descend.
- 62.00

14. Partial Subdivision of frac. Township 5 North, Range 15 E.

Chains

60.00 Dry ravine, 15 lks. wide, course SE. Ascend.
 80.22 The cor. of secs. 9, 10, 15 and 16.
 West 3 chs. level, bottom land.
 Soil, dry, sandy and gravelly loam, 12 ins. deep on gravel
 subsoil.
 East, 77 chs. rough mountains.
 Soil, stony, 4 to 12 ins. deep on clay subsoil.
 Light growth bunch grass.
 Timber, mesquite and catclaw.

October 31, 1914.

November 1, 1914: At 1h.44m. p.m., 1.m.t., I set off $33^{\circ}47'N$, on the lat. arc; $14^{\circ}21\frac{1}{2}'S$. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 9, 10, 15 and 16.

Thence I run,

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

Ascend SE. slope of ridge, over rolling, stony mountainous land, through scattering greasewood brush undergrowth.

20.00 Top of ridge, brs. N. $10^{\circ}E$. and S. $10^{\circ}W$. Descend 200 ft. over NW. slope.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 9 in W.,
 S 10 in E., and
 1914 on S. half;

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

42.90 Dry ravine, 20 lks. wide, course S. $40^{\circ}W$. Ascend abruptly.

75.50 Top of ridge, brs. N. $30^{\circ}E$. and S. $30^{\circ}W$. Descend.

80.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 3, 4, 9 and 10, marked on brass cap,

T 5 N., R 15 E in N., and
 1914 in S. half;

S 4 in NW.,

S 3 in NE.,

S 10 in SE., and

S 9 in SW. quadrant;

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

Land, mountainous, spurs and ridges covered with loose stone; soil, poor, stony loam, 4 to 6 ins. deep on stony clay subsoil.

Good growth bunch grass.

No timber.

40.00 West, on a random line, bet. secs. 4 and 9.

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

Intersect N. and S. line, 2 lks. south of the cor. of secs. 4, 5, 8 and 9.

Thence I run,

S. $89^{\circ}59'E$, on a true line, bet. secs. 4 and 9.

Ascend abrupt rocky NW. slope of spur, over mountainous land, through greasewood and cactus undergrowth.

14.44 Wire fence brs. N. $54\frac{1}{2}^{\circ}E$. and S. $54\frac{1}{2}^{\circ}W$.

19.10 Wire fence brs. N. $44\frac{1}{2}^{\circ}W$. and S. $44\frac{1}{2}^{\circ}E$. on top of spur, 150 ft. above cor., brs. N. $40^{\circ}W$. and S. $40^{\circ}E$. Descend.

32.95 Dry ravine, 20 lks. wide in canyon, 100 ft. deep, course S. $40^{\circ}E$. Ascend abruptly 150 ft. to

39.60 Top of spur, brs. NE. and SW. Descend.

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

 $\frac{1}{4}$ S 4 in N., and

S 9, 1914 in S. half;

Partial Subdivision of frac. Township 5 North, Range 15 E. 15.

Chains.

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

57.70 Foot of descent in dry sand wash, course S.10°W.; thence in sand wash.

59.10 Leave sand wash. Ascend very abrupt NW. slope, covered with dense oak and mountain mahogany brush undergrowth.

80.36 The cor. of secs. 3, 4, 9 and 10. Land, mountainous, spurs steep covered with loose stone. Soil, stony, worthless. West 40 chs. good growth bunch grass. East 40 chs. covered with dense undergrowth, with light growth grass. No timber.

November 1, 1914.

November 3, 1914: At 3h. 14m. p.m. l.m.t., I set off 33°48' N. on the lat. arc; 15°00½' S. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 3, 4, 9 and 10.

Thence I run, N. 0°02' E., on a random line, bet. secs. 3 and 4.

40.00 Set temp. ¼ sec. cor.

80.30 Intersect N. bdy. of Tp., 42 lks. E. of the cor. of secs. 3, 4, 33 and 34, established by me, as described in Book "A."

Thence I run, S. 0°16' E., on a true line, bet. secs. 3 and 4. Descend SE. slope, over stony, mountainous land, through scattering greasewood brush undergrowth, 3 ft. high.

50 Dry ravine, 60 lks. wide, course S. 20° W. Ascend steeply.

24.76 Top of spur brs. N. 30° E. and S. 30° W. Descend abruptly.

40.30 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for ¼ sec. cor., marked on brass cap, S 4 in W., S 3 in E., and 1914 in S. half; raise a mound of stone 2 ft. base, 1½ ft. high, west of cor. Pits impracticable.

40.90 Dry ravine, 20 lks. wide, course S. 50° W. Ascend abruptly.

47.90 Top of spur, 100 ft. above ravine, brs. N. 40° E. and S. 40° W. Descend abruptly.

62.80 Dry sand wash, 30 lks. wide, course S. 40° W. Ascend very abruptly.

80:30 The cor. of secs. 3, 4, 9 and 10. Land, mountainous, spurs steep, covered with loose stone. Soil, stony clay loam, dry, on clay subsoil. Good growth bunch grass. No timber.

November 3, 1914.

October 28, 1914: At 7h. 14m. a.m. l.m.t., I set off 33°43½' N. on the lat. arc; 12° 55½' S. on the decl. arc; and determine a meridian with the solar at the point for standard cor. of secs. 34 and 35 on south bdy. of Township (First Standard Parallel North) established by me, as noted in Book "B."

Thence I run, N. 0°02' E., bet. secs. 34 and 35. Descend north slope into dry sand wash.

.10 Enter wash, course N. 70° W.

1.00 Leave sand wash; ascend steep south slope of spur, over stony mountainous land, through greasewood and cactus undergrowth, 3 ft. high. Ascend 150 ft. to

7.50 Top of spur, brs. NE. and SW. Descend.

25.00 Foot of descent in dry sand wash, course S. 50° W.; thence over dry bed of wash.

27.70 Leave wash, course S. 50° W. Ascend SE. slope of spur.

16. Partial Subdivision of frac. Township 5 North, Range 15 E.

Chains.

- 35.25 Top of spur, brs. NE. and SW. Descend.
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 34 in W.,
 S 35 in E., and
 1914 in S. half;
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of corner. Pits impracticable.
- 42.00 Dry ravine, 20 lks. wide, course S. 50° E. Ascend.
 49.00 Top of spur brs. NW. and SE. Descend.
 52.25 Dry ravine, 10 lks. wide, course west. Ascend.
 58.10 Top of spur, brs. N. 70° E. and S. 70° W. Descend.
 69.90 Foot of descent in dry sand wash, course S. 70° W.; enter scattering mesquite timber, brs. NE. and SW.
 71.10 Leave sand wash and timber, brs. N. 70° E. and S. 70° W. Ascend SE. slope of spur.
 74.60 Top of ridge, brs. NE. and SW. Descend.
 78.10 Dry ravine, 50 lks. wide, course west; ascend.
 80.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 26, 27, 34 and 35, marked on brass cap,
 T 5 N R 15 E in N., and
 1914 in S. half;
 S 27 in NW.,
 S 26 in NE.,
 S 35 in SE.; and
 S 34 in SW. quadrant;
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, west of cor. Pits impracticable.
- Land, rolling mountains, slopes to the SW.; spurs with steep slopes, covered with loose boulders.
 Soil, stony, dry, 4 to 6 ins. deep on stony clay subsoil.
 Good growth bunch grass.
 Timber, scattering mesquite.
-
- 40.00 West, on a random line, bet. secs. 27 and 34.
 Set temp. $\frac{1}{4}$ sec. cor.
 80.08 Intersect N. and S. line, 14 lks. N. of the true point for cor. of secs. 27, 28, 33 and 34.
 Thence I run,
 N. 89° 54' E., on a true line, bet. secs. 27 and 34.
 Over level, sandy creek bed.
- 3.00 Intersect left bank of Cherry Creek, 2 ft. high, brs. N. and S.; thence over level, sandy bottom land, through dense catclaw brush undergrowth and mesquite timber.
 4.70 Road from Roosevelt, Arizona to settlements along Cherry Creek, brs. N. 20° E. and S. 20° W.
 9.90 Leave level, sandy bottom land, brs. N. and S. Ascend over rolling, stony and gravelly land.
 13.50 Enter dry sand wash, course S. 70° W.; thence in bed of wash.
 18.40 Leave sand wash, course S. 70° W. Ascend NW. slope of spur, over mountainous land.
 19.40 Top of spur, brs. NW. and SE. Descend.
 20.90 Foot of descent in sand wash, course N. 80° W.; thence in dry bed of wash.
 31.95 Leave sand wash and mesquite timber, brs. NE. and S. 80° W. Ascend along top of ridge.
 40.04 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 27 in N., and
 S 34, 1914 in S. half;
 and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
- 79.10 Top of ridge, brs. N. 80° E. and S. 80° W. Descend.
 80/08 The cor. of secs. 26, 27, 34 and 35.
 West 10 chs. level bottom land; soil, light dry sandy loam, with considerable free sand and gravel; depth

Chains.

- of soil, about 12 ins. on gravel subsoil.
 East 70 chs. rolling and mountainous; soil, gravelly and stony clay loam, 4 to 8 ins. deep on clay and stone subsoil.
 Good growth bunch grass.
 Timber, mesquite.
-
- 40.00 East, on a random line, bet. secs. 26 and 35.
 Set temp. $\frac{1}{4}$ sec. cor.
 79.76 Intersect east bdy. of Tp., 5 lks. south of the cor. of secs. 26, 30, 31 and 35, established by me, as described in Book "A."
 Thence I run,
 S. 89° 58' W., on a true line, bet. secs. 26 and 35.
 Descend SW. slope, over stony mountainous land, through greasewood and cactus undergrowth, 4 ft. high.
 2.86 Dry ravine, 75 lks. wide, course N. 20° W. Ascend.
 10.65 Top of spur, brs. NW. and SE. Descend.
 39.76 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 26 in N., and
 $\frac{1}{4}$ S 35, 1914 in S. half;
 raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
 42.56 Foot of descent in dry sand wash, course S. 70° W.; enter mesquite and catclaw timber, brs. NE. and SW.; thence in bed of wash.
 48.06 Leave sand wash, course S. 70° W. Ascend SE. slope.
 56.00 Top of ridge brs. N. 50° E. and S. 50° W. Descend.
 69.36 Dry ravine, 25 lks. wide, course S. 60° W. Ascend SE. slope.
 79.76 The cor. of secs. 26, 27, 34 and 35.
 Land, mountainous; spurs steep, covered with loose rock; soil, stony clay loam, 4 to 8 ins. deep on stony clay subsoil.
 Good growth bunch grass.
 Timber, scattering mesquite and catclaw.
-
- N. 0° 02' E., bet. secs. 26 and 27.
 Ascend SE. slope of spur, over stony mountainous land, through greasewood and catclaw brush undergrowth, 3 ft. high, and scattering mesquite timber.
 Ascend 40 ft. to
 8.50 Top of spur, brs. NE. and SW. Descend.
 13.60 Dry ravine, 10 lks. wide, course S. 70° W. Ascend.
 20.20 Top of spur, 50 ft. above ravine, brs. NE. and SW. Descend steep NW. slope.
 31.55 Dry ravine, 10 lks. wide, course west. Ascend.
 34.30 Top of low spur, brs. E. and W. Descend.
 38.90 Dry ravine, 75 lks. wide, course S. 70° W. Ascend.
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 27 in W.,
 $\frac{1}{4}$ S 26 in E., and
 1914 in S. half; from which,
 A mesquite, 4 ins. in diam., brs. S. 44° E., 75 lks. dist., marked $\frac{1}{4}$ S 26 B T.
 A mesquite, 4 ins. in diam., brs. S. 13° W., 114 lks. dist., marked $\frac{1}{4}$ S 27 B T.
 47.30 Top of spur, brs. NE. and SW. Descend abruptly.
 77.00 Foot of descent in dry sand wash, course west; thence over bottom land.
 80.00 The point for the cor. of secs. 22, 23, 26 and 27 falls in channel of sand wash, where natural causes would insure the destruction of the cor.; therefore, at

18. Partial Subdivision of frac. Township 5 North, Range 15 E.

Chains.

- 79.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for witness cor. to the cor. of secs. 22, 23, 26 and 27, marked on brass cap,
 W C N. of center,
 T 5 N R 15 E, S 22, S 23 in N., and
 1914 in S. half;
 S 26 in SE., and
 S 27 in SW. quadrant; from which,
 A desert willow, 8 ins. in diam., brs. N. $34\frac{1}{2}^{\circ}$ E., 142 lks. dist., marked W C T 5 N, R 15 E S 23 BT.
 A palo verde, 4 ins. in diam., brs. S. $25\frac{1}{2}^{\circ}$ E., 113 lks. dist., marked WC, T5N, R15E, S 26 B 4.
 A catclaw, 4 ins. in diam., brs. S. $10\frac{3}{4}^{\circ}$ W., 55 lks. dist., marked W C T5N, R 15 E S 27 BT.
 A catclaw, 4 ins. in diam., brs. N. $36\frac{1}{2}^{\circ}$ W., 80 lks. dist., marked W C T5N, R 15E S 27BT.
 Land, mountainous, drains to the SW.
 Spurs steep covered with loose rock; soil, poor dry, stony clay loam 4 to 8 ins. deep on clay subsoil.
 Good growth bunch grass.
 Timber, scattering mesquite and catclaw.
 Note: Clouds obscure the sun at noon on this day, rendering an observation with the solar impossible.
 October 28, 1914.
-
- October 29, 1914: At 6h. 44m. a.m., l.m.t., I set off 33° $45'$ N. on the lat. arc; 13° $15\frac{1}{2}'$ S. on the decl. arc; and determine a meridian with the solar at the point for cor. of secs. 22, 23, 26 and 27.
- Thence I run,
 S. $89^{\circ}54'$ W., on a random line, bet. sec. 22 and 27.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.10 Intersect N. and S. line, 10 lks. north of the cor. of secs. 21, 22, 27 and 28.
- Thence I run,
 N. $89^{\circ}50'$ E., on a true line, bet. secs. 22 and 27.
 Over level, sandy bottom land.
- .15 Enter corn field, brs. N. and S.
 3.10 Irrigating ditch, 5 lks. wide, course S. 10° W.
 4.66 Wire fence brs. N. 10° E. and S. 10° W.; leave corn field brs. N. 10° E. and S. 10° W.; enter scattering mesquite and catclaw timber and brush.
- 5.82 Road from Roosevelt, Arizona to settlements in Cherry Creek valley, brs. N. and S.
 6.20 Leave level bottom land, brs. N. 20° W. and S. 20° E.; enter mountainous land, brs. NW. and SE. Ascend steep NW. slope.
- 34.20 Top of spur, brs. N. 50° E. and S. 50° W. Descend over SE. slope.
- 40.05 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 22 in N., and
 S 27, 1914 in S. half;
 no trees suitable for bearing trees within limits; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, north of cor.
 Pits impracticable.
- 75.00 Foot of descent; enter dry sand wash, course S. 70° W.; thence in bottom of wash.
- 80.10 The true point for cor. of secs. 22, 23, 26 and 27.
 West, 11 chs. level, slopes to the SW. Soil, rich moist sandy loam, 12 to 30 ins. deep on gravel subsoil.
 East 69 chs. mountainous land, drains to the SW. Soil, poor, stony and gravelly loam, 8 ins. deep on dry clay and gravel subsoil.
 Good growth bunch grass.
 Timber, mesquite and catclaw.
-

Partial Subdivision of frac. Township 5 North, Range 15 E. 19

Chains.	
	From true point for cor. of secs. 22, 23, 26 and 27, I run, N. 89° 58' E. on a random line, bet. secs. 23 and 26.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.78	Intersect east bdy. of Tp. 5 lks. north of the cor. of secs. 19, 23, 26 and 30, established by me, as described in Book "A."
	Thence I run, West, on a true line, bet. secs. 23 and 26. Ascend NE. slope of spur, over mountainous land, through greasewood and cactus undergrowth.
13.50	Top of ridge, brs. N. 70° E. and S. 70° W. Descend.
26.60	Foot of descent in dry sand wash, course N. 70° W.; enter scattering mesquite and catclaw timber, brs. NW. and SE.
36.60	Leave sand wash, course N. 70° W. Ascend NE. slope of spur.
39.78	Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 23 in N., and $\frac{1}{4}$ S 26, 1914 in S. half; no trees within limits; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, north of cor. Pits impracticable.
41.88	Top of spur, brs. NW. and SE. Descend NW. slope.
76.25	Foot of descent in dry sand wash, course S. 70° W.; thence in dry bed of wash.
79.78	The true point for cor. of secs. 22, 23, 26 and 27. Land, mountainous, drains to the SW.; spurs steep, covered with loose stone. Soil, stony, 3 to 6 ins. deep on clay subsoil. Good growth bunch grass. Timber, scattering mesquite and catclaw. Note: At this cor. point, I set off 13° 21' S. on the decl. arc, and at apparent noon, observe the sun on the meridian, and obtain a reading of 33° 45' N. on the lat. arc.

	From true point for cor. of secs. 22, 23, 26 and 27, I run, N. 0° 02' E., bet. secs. 22 and 23.
1.80	Over dry sand wash, through mesquite, catclaw and desert willow timber, and greasewood brush undergrowth. Leave sand wash, course S. 70° W. Ascend steep rocky SE. slope, over mountainous land; ascend 140 ft. to
12.60	Top of ridge, brs. NE. and SW. Descend.
24.00	Foot of descent in dry ravine, 30 lks. wide, course S. 40° W. Ascend 100 ft. to
30.70	Top of spur, brs. NE. and SW.; Descend.
36.50	Bottom of dry ravine, 40 lks. wide, course west. Ascend.
40.00	Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 22 in W., $\frac{1}{4}$ S 23 in E., and 1914 in S. half; no trees within the prescribed limits; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, west of cor. Pits impracticable.
40.80	Top of spur, brs. N. 50° E. and S. 50° W. Descend.
54.70	Dry ravine, 10 lks. wide, course N. 40° W. Ascend.
57.80	Top of spur, brs. NW. and SE. Descend.
65.80	Dry sand wash, 40 lks. wide, course S. 60° W. Ascend.
80.00	Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 14, 15, 22 and 23, marked on brass cap, T 5 N R 15 E in N., and 1914 in S. half; S 15 in NW. S 14 in NE. S 23 in SE. and S 22 in SW. quadrant; no trees within limits; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, west of cor. Pits impracticable.

20. Partial Subdivision of frac. Township 5 North, Range 15 E.

Chains.

Land, mountainous, drains to the SW.; spurs steep, covered with loose boulders.
Soil, stony clay loam, 6 ins. deep on stony clay subsoil.
Good growth bunch grass.
Timber, scattering mesquite and catclaw.

S.89°50'W., on a random line, bet. secs.15 and 22.
40.00 Set temp. $\frac{1}{4}$ sec.cor.
80.06 Intersect N. and S. line, 2 lks.north of the cor.of secs.
15,16,21 and 22.
Thence I run,
N.89°49'E. on a true line, bet. secs.15 and 22.
Descend SE. slope of spur, over stony, mountainous land,
through greasewood and catclaw brush undergrowth, 3
to 5 ft.high.
7.80 Dry ravine, 15 lks.wide, course south; ascend.
9.80 Top of spur, brs.N.10°E. and S.10°W. Descend.
28.00 Enter dry sand wash and scattering mesquite and catclaw
timber, brs.N.60°E. and S.60°W.
32.30 Leave sand wash, course S.60°W. Ascend spur.
40.03 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in
the ground for $\frac{1}{4}$ sec.cor., marked on brass cap,
 $\frac{1}{4}$ S 15 in N., and
S 22, 1914 in S.half;
no trees within limits; raise a mound of stone 2 ft.
base, 1 $\frac{1}{2}$ ft. high, north of cor. Pits impracticable.
Ascend 50 ft.to
43.46 Top of spur, brs.N.and S.; descend.
50.63 Dry ravine, 15 lks.wide, course N.60°W. Ascend.
80.06 The cor.of secs.14,15,22 and 23.
Land,mountainous, drains to the SW.
Spurs with steep slopes, covered with loose boulders.
Soil, poor, dry stony clay loam, 4 to 8 ins.deep on stony
clay subsoil.
Good growth bunch grass.
Timber, scattering mesquite and catclaw.
October 29, 1914.

October 31, 1914: At 7h. 14m. a.m., 1.m.t., I set off
33°46'N. on the lat.arc; 13°55 $\frac{1}{2}$ 'S. on the decl.arc;
and determine a meridian with the solar at the cor.
of secs. 14,15,22 and 23.
Thence I run,
East, on a random line, bet. secs.14 and 23.
40.00 Set temp. $\frac{1}{4}$ sec.cor.
79.82 Intersect east bdy.of Tp., 12 lks.south of the cor.of
secs. 14,18,19 and 23, established by me, as described
in Book "A."
Thence I run,
S.89°55'W., on a true line, bet. secs.14 and 23.
Ascend SE. slope of spur, over stony mountainous land,
through greasewood and catclaw brush undergrowth, 4
ft.high.
3.42 Top of ridge, brs.N.30°E. and S.30°W. Descend.
35.00 Dry ravine, course NW.
39.82 Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in
the ground for $\frac{1}{4}$ sec.cor., marked on brass cap,
 $\frac{1}{4}$ S 14 in N., and
S 23, 1914 in S.half;
raise a mound of stone 2 ft.base, 1 $\frac{1}{2}$ ft.high, N.of
cor. Pits impracticable.
46.75 Top of spur, brs.N.and S.; descend.
67.62 Dry ravine, 15 lks.wide, course S.40°W. Ascend.
72.40 Top of spur, brs.NE. and SW. Descend. steeply.

Chains.

- 79.82 The cor. of secs. 14, 15, 22 and 23.
Land, mountainous, drains to the SW.; spurs steep, covered with loose boulders; soil, stony clay loam; 4 to 8 ins. deep on stony clay subsoil.
Good growth bunch grass.
No timber.
-
- N. $0^{\circ}02'$ E., bet. secs. 14 and 15.
Ascend south slope of spur, over stony mountainous land, through greasewood brush and catclaw undergrowth, 3 ft. high.
- 8.60 Top of spur, brs. NE. and SW. Descend.
11.90 Dry ravine, 8 lks. wide, course west. Ascend.
19.90 Top of spur, brs. NE. and SW. Descend.
38.00 Foot of descent in dry sand wash, course west.
39.50 Leave sand wash, course $S.80^{\circ}W.$ Ascend 150 ft. over steep south slope.
40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 15 in W.,
S 14 in E., and
1914 in S. half;
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, west of cor.
Pits impracticable.
- 47.10 Top of spur, brs. NE. and SW. Descend 250 ft. to
62.55 Dry ravine, 200 lks. wide, course $S.50^{\circ}W.$ Ascend abruptly.
78.85 Top of ridge, brs. $N.50^{\circ}E.$ and $S.50^{\circ}W.$ Descend NW. slope.
80.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 10, 11, 14 and 15, marked on brass cap,
T 5 N, R 15 E in N., and
1914 in S. half;
S 10 in NW.
S 11 in NE.,
S 14 in SE., and
S 15 in SW. quadrant;
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, west of cor. Pits impracticable.
- Land, mountainous, drains to the SW., spurs with steep slopes covered with loose boulders.
Soil, poor, dry stony clay loam, 4 to 8 ins. deep on dry stony clay subsoil.
Good growth bunch grass.
No timber.
Note: At this cor. I set off $14^{\circ}00\frac{1}{2}'S.$ on the decl. arc; and at apparent noon, observe the sun on the meridian, the resulting latitude being $33^{\circ}46\frac{1}{2}'N.$
-
- $S.89^{\circ}49'W.$, on a random line, bet. secs. 10 and 15.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
80.08 Intersect N. and S. line, 8 lks. north of the cor. of secs. 9, 10, 15 and 16.
Thence I run,
 $N.89^{\circ}46'E.$, on a true line, bet. secs. 10 and 15.
Descend SE. slope of spur, over stony, mountainous land, through scattering palo verde timber and greasewood and cactus undergrowth, 3 ft. high.
- 5.00 Dry ravine, 10 lks. wide, course $S.40^{\circ}W.$ Ascend.
7.67 Top of rocky spur, 50 ft. above ravine, brs. NE. and SW. Descend steeply.
18.38 Dry sand wash, 150 lks. wide, course $S.40^{\circ}W.$ Ascend NW. slope.
32.78 Top of rocky spur, brs. $N.40^{\circ}E.$ and $S.40^{\circ}W.$ Descend 150 ft.
40.04 Set an iron post 3 ft. long, 1 in. in diam., 26 ins.

22. Partial Subdivision of frac. Township 5 North Range 15 E.

Chains

- in the ground for $\frac{1}{4}$ sec.cor., marked on brass cap,
 $\frac{1}{4}$ S 10 in N. and
 S 15, 1914 in S.half;
 no trees suitable for bearing trees within the pre-
 scribed limits; raise a mound of stone 2 ft. base, $1\frac{1}{2}$
 ft.high, north of cor. Pits impracticable.
- 53.58 Dry ravine, 50 lks.wide, course S.40°W.; ascend 100 ft.to
 57.00 Top of spur, brs.N.40°E. and S.40°W. Descend.
 59.50 Foot of descent in dry sand wash, course S.70°W.;thence
 in dry bed of wash; enter scattering mesquite and
 catclaw timber, brs.N.70°E. and S.70°W.
 71.50 East side of sand wash, course S.70°W.; leave timber,
 brs.N.70°E. and S.70°W.; ascend steep NW.slope of spur
 80.08 The cor.of secs.10,11,14 and 15.
 Land, rolling mountains, drains to the SW.; spurs with
 gradual slopes, covered with loose stone.
 Soil, poor, dry stony clay loam on stony clay subsoil.
 Good growth bunch grass.
 Timber, scattering palo verde, mesquite and catclaw,
 October 31,1914.
-
- November 2, 1914: At 7h. 44m. a.m.,l.m.t., I set off 33°
 47'N. on the lat.arc; 14°35'S. on the decl.arc; and
 determine a meridian with the solar at the cor.of
 secs. 10,11,14 and 15.
 Thence I run,
 N.89°55'E. on a random line, bet. secs.11 and 14.
 40.00 Set temp. $\frac{1}{4}$ sec.cor.
 79.78 Intersect east bdy.of Tp.,187 lks.N.of the witness cor.
 to the cor.of secs.7,11,14 and 18, or 2 lks.N.of cor.
 point established by me, as described in Book "A"
 Thence I run, from true point for cor.of secs. 7,11,14
 and 18.
 S.89°56'W. on a true line, bet. secs.11 and 14.
 Descend SW. slope,over stony, mountainous land,through
 scattering mesquite and catclaw timber and brush.
 7.00 Dry sand wash, course N.40°W. Ascend 70 ft.to
 23.50 Top of spur, brs.N.10°E. and S.10°W.
 39.78 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in
 the ground for $\frac{1}{4}$ sec.cor., marked on brass cap,
 $\frac{1}{4}$ S 11 in N., and
 S 14, 1914 in S.half;
 no trees large enough for bearing trees within limits;
 raise a mound of stone.2 ft.base, $1\frac{1}{2}$ ft.high,N.of cor.
 Pits impracticable.
- 50.50 Foot of descent in dry sand wash, course S.60°W.;thence
 in wash.
 52.70 Leave sand wash, course S.60°W. Ascend 150 ft.to
 76.00 Top of spur, brs.NE. and SW. Descend.
 79.78 The cor.of secs.10,11,14 and 15.
 Land, mountainous spurs,steep rocky.
 Soil,poor, dry sandy and stony clay loam, 3 to 6 ft.deep
 on dry clay and stone subsoil.
 Good growth bunch grass.
 Timber, scattering mesquite, catclaw and palo verde.
-
- N.0°02' E.,bet. secs.10 and 11.
 Descend NW. slope of ridge, over stony, mountainous land,
 through greasewood and cactus undergrowth, 3 ft.high.
 5.40 Foot of descent in dry sand wash, course S.50°W.;enter
 scattering mesquite and catclaw timber, brs.NE.and SW.
 7.60 Leave sandy wash, course S.50°W. Ascend steep SE.slope,
 200 ft.to
 18.10 Top of ridge, brs.N.30°E. and S.30°W. Descend.
 25.20 Dry ravine, 20 lks.wide, course west. Ascend 50 ft.

Chains.

- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 10 in W.,
 S 11 in E., and
 1914 in S. half;
 no trees within limits; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, west of cor. Pits impracticable.
- 54.60 Top of ridge, brs. N. 40° E. and S. 40° W. Descend.
- 65.90 Dry ravine, 10 lks. wide, course S. 40° W. Ascend.
- 71.40 Top of ridge, brs. N. 40° E. and S. 40° W. Descend.
- 73.90 Dry ravine, 75 lks. wide, course S. 60° W. Ascend.
- 80.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 2, 3, 10 and 11, marked on brass cap,
 T 5 N R 15 E in N., and
 1914 in S. half;
 S 3 in NW.,
 S 2 in NE.,
 S 11 in SE., and
 S 10 in SW. quadrant;
 no trees suitable for bearing trees within limits; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, west of corner. Pits impracticable.
- Land, mountainous, drains to the SW. Spurs and ridges steep, covered with loose boulders.
- Soil, poor, stony clay loam, 3 to 8 ins. deep on stony clay subsoil.
- Good growth bunch grass.
- Timber, scattering mesquite and catclaw.
- Note: At 10 a.m., heavy rain prevents further work on this day.

November 2, 1914.

- November 3, 1914: At 7h. 29m. a.m., l.m.t., I set off 33° 48' N. on the lat. arc; 14° 53' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 2, 3, 10 and 11.
- Thence I run,
 S. 89° 46' W. on a random line, bet. secs. 3 and 10.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.10 Intersect N. and S. line, 5 lks. south of the cor. of secs. 3, 4, 9 and 10.
- Thence I run,
 N. 89° 48' E., on a true line, bet. secs. 3 and 10.
- Ascend NW. slope of spur, over stony, mountainous land, through greasewood brush and cactus undergrowth, 4 ft. high. Ascend 20 ft. to
- 4.20 Top of spur, brs. N. 35° E. and S. 35° W. Descend.
- 15.00 Dry ravine, 10 lks. wide, course S. 10° W. Ascend 100 ft. to
- 20.55 Top of spur, brs. N. 10° E. and S. 10° W. Descend 75 ft. to
- 27.35 Dry ravine, 10 lks. wide, course S. 30° W. Ascend 100 ft. to
- 35.25 Top of spur, brs. N. and S. Descend 80 ft.
- 40.05 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 3 in N., and
 S 10, 1914 in S. half;
 and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
- 47.60 Dry sand wash, 30 lks. wide, course S. 10° W. Ascend 100 ft. to
- 55.40 Top of spur, brs. N. 20° E. and S. 20° W. Descend abruptly.
- 80.10 The cor. of secs. 2, 3, 10 and 11.
- Land, mountainous, drains to the SW.
- Spurs with steep slopes, covered with loose stone.
- Soil, poor, dry, stony clay loam, 4 to 6 ins. deep on stony clay subsoil.

frac.

21. Partial Subdivision of Township 5 North, Range 15 East.

Chains.

Good growth bunch grass.
No timber.

-
- 40.00 N.89° 56' E., on a random line, bet. secs.2 and 11.
Set temp. $\frac{1}{4}$ sec.cor.
- 79.68 Intersect east bdy.of Tp., 2 lks.north of the cor.of secs.
2,6, 7 and 11, established by me, as described in
in Book "A."
Thence I run,
S.89°57'W., on a true line, bet. secs.2 and 11.
Ascend gradual SE. slope of spur, over rolling, mountain-
ous land, through scattering greasewood and catclaw
brush.
- 8.40 Top of spur, brs.NE. and SW. Descend 150 ft.to
23.30 Dry ravine, 40 lks.wide, course S.10°W. Ascend 50 ft.to
29.30 Top of spur, brs.N.40°E. and S.40°W. Descend 80 ft.to
33.00 Dry ravine, course S.10°W. Ascend 25 ft.to
35.50 Top of spur, brs.NE.and SW. Descend 75 ft.to
38.30 Dry sand wash, 50 lks.wide, course south; ascend.
39.68 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in
the ground for $\frac{1}{4}$ sec.cor., marked on brass cap,
 $\frac{1}{2}$ S 2 in N., and
S 11, 1914 in S.half;
and raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, N.
of corner. Pits impracticable. Ascend 25 ft.to
- 45.70 Top of spur, brs.NE.and SW. Descend.
73.00 Dry ravine, 60 lks.wide, course S.50°W.; ascend.
79.68 The cor.of secs.2,3,10 and 11.
Land, mountainous, drains to the SW., spurs with steep
rocky slopes.
Soil, stony clay loam, 6 ins. deep on clay and stony sub-
soil.
No timber, good growth bunch grass.

Note: Clouds obscure the sun at noon today, rendering an
observation for latitude with the solar impossible.

-
- 40.00 N.0°02' E., on a random line, bet. secs. 2 and 3.
Set temp. $\frac{1}{4}$ sec.cor.
- 79.94 Intersect north bdy. of Tp., 92 lks.east of the witness
corner to cor.of secs.2,3,34 and 35, or 38 lks.east
of cor.point established by me, as described in Book
"A."
Thence from true point for the corner of secs.2,3,34 and
35, I run,
S.0°14'E., on a true line, bet. secs.2 and 3.
In dry sand wash, course S.50°W.
- .50 Leave sand wash ascend NW. slope, over stony, mountain-
ous land, through oak and greasewood brush undergrowth
2 to 4 ft.high. Ascend 75 ft.to
- 9.05 Top of ridge, brs.N.20°E. and S.20°W.
Descend over SE.slope.
- 39.94 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in
the ground for $\frac{1}{4}$ sec.cor., marked on brass cap,
 $\frac{1}{2}$ S 3 in W.,
S 2 in E., and
1914 in S.half;
and raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high,
west of cor.
Pits impracticable.
- 79.94 The cor.of secs.2,3,10 and 11.
Land, rolling mountains, drains to the SW.
Spurs with gradual slopes, rocky.
Soil, stony, 3 to 8 ins.deep on dry clay subsoil, stony.
Good growth bunch grass.
No timber.

November 3, 1914.

GENERAL DESCRIPTION.

The land in this township varies from rugged mountains to level creek bottoms and the soil ranges from rich sandy loam to barren rock and chalk beds.

The soil of the bottom lands along Cherry Creek is a rich moist sandy loam, which with the aid of irrigation, produces excellent crops of corn and fruits of different varieties to which the land is planted at the present time. The soil of the remaining portion of the township is for the most part a stony clay loam on underlying ledges of stone and clay subsoil, and is practically all of little value for agricultural purposes, however, being covered with a good growth of bunch grass is valuable for grazing purposes.

Cottonwood, sycamore, and hackberry timber is found along Cherry Creek, while mesquite and catclaw is found scattered over the major portions of the township. Near the NW. corner of the township, there is considerable oak and yew timber, too small however to be of commercial value.

The township is watered by Cherry Creek, which runs through the central portion in a southerly direction.

No minerals of value were found within the township.

There is one settler in each of the following sections: 8, 9, 21 and 22.

Widney B. Blout
U.S. Surveyor.

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability,
Sidney E. Blout, U. S. Surveyor, during the periods and in the capacities
stated opposite our several signatures, in surveying all those parts or portions of The Subdivision
lines of ^{Fractional} Township No. 5 North of Range No 15 East

of the Gila and Salt River Base and Meridian, in the State of Arizona.
which are represented in the foregoing field notes as having been executed by him, and under his direc-
tion; and that said survey has been, in all respects, to the best of our knowledge and belief, well and
faithfully executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	
<i>J. V. White.</i>	Mar. 3, 1914	May 31, 1914	Rear Chainman
	June 1, 1914	Nov. 4, 1914	Head Chainman
<i>George S. Henry.</i>	Mar. 3, 1914	May 31, 1914	Moundman
	June 1, 1914	Nov. 4, 1914	Rear Chainman
<i>Harvey Hall</i>	September 29	Nov. 4, 1914	Flagman
	Aug. 11 to Oct 8,	Oct. 18 to Nov. 4, 1914.	Flagman
<i>Julius Davis</i>	Oct. 8, 1914	Oct. 17, 1914	Rear Chainman
	July 26 to Oct 8,	Oct. 18 to Nov, 4, 1914.	Axman
<i>Ben J. Ramsey</i>	Oct. 8 to	Oct. 17, 1914	Head Chainman

Subscribed and certified to before me on the dates of the final service as shown above.

Sidney E. Blout
U. S. Surveyor.

244
27
BOOK 2833

FINAL OATH OF UNITED STATES SURVEYOR.

I, Sidney E. Blout, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for Arizona for Group 31 bearing date of the 24th day of October, 1913, 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 the Subdivision lines of ^{Frac.} T. 5 N., R. 15 E of the Gila and Salt River Base and Meridian, in the State of Arizona, 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 Arizona for Group 31 and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Sidney E. Blout
U. S. Surveyor.

Subscribed by said Sidney E. Blout, and sworn to before me }
this 8th day of March, 1914

Frank A. Ingalls
Surveyor General of Arizona



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,
Phoenix Arizona, Oct. 21, 1915

The foregoing field notes of the survey of part of the Subdivision Lines of Fractional Township 5 North Range 15 East of the Gila and Salt River Base and Meridian, in the State of Arizona.

executed by Sidney E. Blout, U.S. Surveyor under his special instructions dated October 24, 1913 for Group 31, ~~to~~, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank A. Ingalls
U. S. Surveyor General.
of Arizona.

~~I certify that the foregoing transcript of the field notes of the above described surveys in~~
~~has been correctly copied from the original notes on file in this office.~~