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BOOK "H"

BOOK 2862

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION LINES

of

T. 39 N., R. 5 W.

Of the Gila and Salt River Base and Meridian,

In the State of ARIZONA

EXECUTED BY

Jos. C. Thoma.

In the capacity of U. S. Surveyor, under instructions dated March 11, 1913, issued by the United States Surveyor General to govern surveys included in Group No. 29, which were approved by the Commissioner of the General Land Office, March 26, 1913.

Survey commenced September 14, 1914,

Survey completed September 26, 1914.

BOOK 2862

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Subdivision of T. 39 N., R. 5 W.

Chains

Survey commenced September 14, 1914, and executed with a Young and Son's light mountain transit, No. 8535, with Smith Solar Attachment. For description of instrument, see page 1, Book "B."

To test the solar apparatus, by comparing its indications resulting from solar observations made during a. m. and p. m. hours, with a meridian determine by observation on Polaris, I proceed as follows:

At my camp in the SE. 1/4 sec., 9, T. 39 N., R. 5 W., in approximate lat. 36° 47' N., approximate long. 112° 50' W., at 8h 00m p. m., l. m. t., I observe Polaris at eastern elongation and mark the line thus determined by a tack driven in a peg set 12 chs. N. of my station. September 14, 1914.

September 15, 1914: I lay off the azimuth of Polaris, 1° 26', to the W. and mark the true meridian thus determined by setting another tack in a peg driven 12 chs. N. of my station.

September 15, 1914: I set off 36° 47' N. on the lat. arc; 3° 12' N. on the decl. arc; and, at 8h 55m a. m., l. m., t., determine a meridian with the solar, which coincides with the meridian as determined by observation on Polaris.

September 15, 1914: I set off 3° 9' N. on the decl. arc; and, at apparent noon, observe the sun on the meridian, the resulting lat. is 36° 47' N.

September 15, 1914: I set off 36° 47' N. on the lat. arc; 3° 6' N. on the decl. arc; and, at 2h 55m p. m., l. m. t., determine the meridian with the solar, which coincides with the meridian as determined by observation on Polaris.

September 15, 1914.

September 16, 1914: At the cor. of secs. 1, 2, 35, and 36., Ts. 38 and 39 N., R. 5 W., I set off 36° 44' N. on the lat. arc; 2° 50' N. on the decl. arc; and, at 8h 25m a. m., l. m. t., determine a meridian with the solar.

Thence I run

N. 0° 1' W., bet. secs. 35 and 36.

Over rolling land, through yellowtop; desc. gradually.

5.00

Draw, in bottom of hollow, 3 lks. wide, 1 ft. deep; drains NE.; asc. gradually.

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

1914 on S. rim;

1/4 in N.,

S36 in E., and

S35 in W. half;

dig pits, 18x18x12 ins., N. and S. of post, 3 ft.

dist.; and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

This cor. is located on top of a low ridge, 40 ft. above draw, bearing E. and W.; desc. gradually.

72.40

Wash, in hollow, 10 lks. wide, 3 ft. deep, drains E.; asc.

80.00

Set an iron post, 3 ft. long, 2 ins. diam., 18 ins. in the ground, to bedrock, surrounded by a mound of stone, for the cor. of secs. 25, 26, 35, and 36, marked on brass cap

1914 on S. rim;

T39NR5W in N. half;

S26 in NW.,

S25 in NE.,

S36 in SE.,

S35 in SW. quadrant; and

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

Land, rolling; drains E.

2.

Subdivision of T. 39 N., R. 5 W.

Chains	Soil, light red sandy loam, of medium texture; subsoil, red clay. Undergrowth, yellowtop. Good grazing. No timber.

	East, on a random line, bet. secs. 25 and 36.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect the E. bdy. of the T. at the cor. of secs. 25, 30, 31, and 36.
	Thence I run
	West, on a true line, bet. secs. 25 and 36.
	Asc. gradually over rolling land, through yellowtop.
27.00	E. edge of corduroy flat, cut by numerous small washes, 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 1914 on S. rim; S25 in N., S36 in S., and $\frac{1}{4}$ in W. half; dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
49.00	W. edge of flat, bears N. and S.; asc. gradually.
80.00	The cor. of secs. 25, 26, 35, and 36. Land, rolling and flat, drains SE. Soil, light sandy loam and clay, in water-worn gravel, 49 chs.; light red sandy loam, in sandstone gravel, 31 chs. Subsoil, light sandy loam, clay, and gravel in the E. half; red sandy loam and clay, rocky, W. half. Undergrowth, shad scale, E. half; yellowtop, W. half. Fair grazing. No timber.

	N. 0° 1' W., bet. secs. 25 and 26.
	Asc. gradually over rolling land, through yellowtop.
15.00	S. edge of nearly level flat, bears NW. and E.
37.00	N. edge of nearly level flat, bears NW. and E.
	Wash, 10 lks. wide, 4 ft. deep; 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 1914 on S. rim; $\frac{1}{4}$ in N., S25 in E., and S26 in W. half; dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
51.00	Base of mesa, bears N. 35° E. and SW.
53.20	Top of mesa, 40 ft. above bottom; continue over level top.
79.25	N. edge of mesa, bears E. and NW.; desc.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the cor. of secs. 23, 24, 25, and 26, marked on brass cap 1914 on S. rim; T39NR5W 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 and hilly; drains SE. Soil, light red sandy loam, clay, and red sandstone gravel; subsoil, rocky light red sandy loam and clay. Undergrowth, yellowtop and shad scale, 65 chs. Fair grazing. No timber.

Chains	East, on a random line, bet. secs. 24 and 25.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.01	Intersect the E. bdy. of the T., 5 lks. S. of the cor. of secs. 19, 24, 25, and 30. September 16, 1914: At this cor., I set off $2^{\circ} 46'$ N. on the decl. arc; and, at apparent noon, observe the sun on the meridian; the resulting lat. is $36^{\circ} 45'$ N. Thence I run S. $89^{\circ} 58'$ W., on a true line, bet. secs. 24 and 25. Asc. gradually over gently rolling land, through shad scale and yellowtop.
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 1914 on S. rim; S24 in N., S25 in S., and $\frac{1}{4}$ in W. half; dig pits, $18 \times 18 \times 12$ ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
52.50	Base of ascent, bears N. 20° E. and S. 20° W.; asc. abruptly.
54.60	Top of ascent, bears N. 20° E. and S. 20° W., 75 ft. above bottom of ascent; continue over level mesa.
60.50	Edge of mesa, bears N. 20° E. and SW.
65.25	Edge of mesa, bears NW. and SE.
69.50	Edge of mesa, bears N. and S.; desc.
71.00	Base of mesa, 30 ft. below top, bears N. 20° E. and S. 80° W.
80.01	The cor. of secs. 23, 24, 25, and 26. Land, rolling; drains E. Soil, light red sandy loam, clay and gravel. Subsoil, light red sandy loam and clay, 50 chs. Rocks and dis-integrated sandstone, 30 chs. Undergrowth, shad scale and yellowtop. Fair grazing. No timber.

	N. $0^{\circ} 1'$ W., bet. secs. 23, and 24. Desc. gradually over rolling land, through shad scale and yellowtop.
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 1914 on S. rim; $\frac{1}{4}$ in N., S24 in E., and S23 in W. half; dig pits, $18 \times 18 \times 12$ ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
66.00	Wash, 15 lks. wide, 2 ft. deep, drains E.; asc. gradually
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the cor. of secs. 13, 14, 23, and 24, marked on brass cap 1914 on S. rim; T39NR5W in N. half; S14 in NW., S13 in NE., S24 in SE., and S23 in SW. quadrant; dig pits, $18 \times 18 \times 12$ 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, rolling; drains SE. Soil, light red sandy loam, clay, and sandstone gravel, 66 chs.; water-worn gravel, 14 chs. Subsoil, light red sandy loam and hard clay. Undergrowth, shad scale and yellowtop. Good grazing. No timber.

4.

Subdivision of T. 39 N., R. 5 W.

Chains N. $89^{\circ} 58'$ E., on a random line, bet. secs. 13 and 24.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.03 Intersect the E. bdy. of the T., 5 lks. S. of the cor. of secs. 13, 18, 19, and 24.
 Thence I run
 S. $89^{\circ} 56'$ W., on a true line, bet. secs. 13 and 24.
 Asc. gradually over rolling land, through shad scale.
 40.01 $\frac{1}{2}$ Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
 1914 on S. rim;
 S13 in N.,
 S24 in S., and
 $\frac{1}{4}$ in W. half;
 dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
 40.50 Wash, 15 lks. wide, 2 ft. deep; drains NE.
 80.03 The cor. of secs. 13, 14, 23, and 24.
 Land, rolling; drains E.
 Soil, light red sandy loam and clay, with water-worn gravel in W. half; subsoil, light red sandy loam and clay, which is very hard when dry.
 Undergrowth, shad scale.
 Fair grazing.
 No timber.

September 16, 1914.

September 23, 1914: I set off $36^{\circ} 46'$ N. on the lat. arc; $0^{\circ} 9'$ N. on the decl. arc; and, at 7h 8m a. m., 1. m. t., determine a meridian with the solar.

Thence I run
 N. $0^{\circ} 1'$ W., bet. secs. 13 and 14.
 Asc. gradually over rolling land, through shad scale.
 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
 1914 on S. rim;
 $\frac{1}{4}$ in N.,
 S13 in E., and
 S14 in W. half;
 dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 This cor. is located on top of a low ascent, bearing E. and W.; desc. gradually.
 58.00 Wash, 20 lks. wide, 5 ft. deep; drains E.
 67.40 Wash, 15 lks. wide, 5 ft. deep, drains S. 70° E.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the cor. of secs. 11, 12, 13, and 14, marked on brass cap
 1914 on S. rim;
 T39NR5W in N. half;
 S11 in NW.,
 S12 in NE.,
 S13 in SE., and
 S14 in SW. quadrant;
 dig pits, 18x18x12 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, rolling; drains SE. in S. half and E. in N. half.
 Soil, light red sandy loam and clay, with water-worn gravel, 67.40 chs. Subsoil, light red sandy loam and clay.
 Undergrowth, yellowtop.
 Poor grazing.
 No timber.

40.00 N. $89^{\circ} 56'$ E., on a random line, bet. secs. 12 and 13.
 Set temp. $\frac{1}{4}$ sec. cor.

Chains

80.07 Intersect the E. bdy. of the T., 5 lks. S. of the cor. of secs. 7, 12, 13, and 18.
 Thence I run S. 89° 54' W., on a true line, bet. secs. 12 and 13. Asc. gradually over rolling land, through shad scale and yellowtop.

40.03½ Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap
 1914 on S. rim;
 S12 in N.,
 S13 in S., and
 ¼ in W. half;
 and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.

80.07 The cor. of secs. 11, 12, 13, and 14.
 Land, rolling and hilly; drains SE.
 Soil and subsoil, light red sandy loam and clay; rocky in E. half.
 Undergrowth, scattering shad scale and yellowtop.
 Fair grazing.
 No timber.

N. 0° 1' W., bet. secs. 11 and 12.
 Over gently rolling land, through yellowtop.

4.50 Wash, 25 lks. wide; 7 ft. deep; drains N. 70° E.

19.90 Road, Pipe Springs to Mt. Trumble, bears NE. and SW.

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
 1914 on S. rim;
 ¼ in N.,
 S12 in E., and
 S11 in W. half;
 dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the cor. of secs. 1, 2, 11, and 12, marked on brass cap
 1914 on S. rim;
 T39NR5W in N. half;
 S2 in NW.,
 S1 in NE.,
 S12 in SE., and
 S11 in SW. quadrant;
 dig pits, 18x18x12 ins., in each sec., 5½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
 Land, level, 30 chs; gently rolling, 50 chs; drains NE.
 Soil and subsoil, light red sandy loam and clay.
 Undergrowth, yellowtop and greasewood in N. half;
 Poor grazing.
 No timber.

N. 89° 54' E., on a random line, bet. secs. 1 and 12.

40.00 Set temp. ¼ sec. cor.

79.99 Intersect the E. bdy. of the T., at the cor. of secs. 1, 6, 7, and 12.
 Thence I run S. 89° 54' W., on a true line, bet. secs. 1 and 12. Asc. gradually over rolling land, through shad scale and greasewood.

33.75 Road, Pipe Springs to Mt. Trumble, bears NE. and SW.

39.99½ Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap
 1914 on S. rim;
 S1 in N.,
 S12 in S., and
 ¼ in W. half;

6.

Subdivision of T. 39 N., R. 5 W.

Chains	dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.
79.99	The cor. of secs. 1, 2, 11, and 12. Land, rolling, E. half, gently rolling, W. half; drains SE. Soil and subsoil, light red sandy loam and clay. Undergrowth, shad scale and scattering greasewood. Poor grazing. No timber.

12.30	The flag at the cor. of secs. 1, 2, 35, and 36, Ts. 39 and 40 N., R. 5 W., is plainly visible; therefore I run N. 0° 2' W., on a true line, bet. secs. 1 and 2. Over rolling land, through shad scale.
40.00	Wash, 40 lks. wide, 8 ft. deep; drains E.; thence, NE. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap 1914 on S. rim; ¼ in N., S1 in E., and S2 in W. half;
65.00	dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.
79.98	September 23, 1914: At this cor., I set off 0° 3' N. on the decl. arc; and, at apparent noon, observe the sun on the meridian; the resulting lat. is 36° 48' 30" N. Base of Indian knoll, bears E. and W.; asc. The cor. of secs. 1, 2, 35, and 36, on the N. bdy. of the T., 50 ft. above bottom of ascent. Land, gently rolling and hilly; drains E. Soil, light red sandy loam and clay, 65 chs.; rocky, 15 chs. Undergrowth, shad scale. Fair grazing. No timber, September 23, 1914.

35.50	September 17, 1914: At the cor. of secs. 2, 3, 34, and 35, Ts. 38 and 39 N., R. 5 W., I set off 36° 44' N. on the lat. arc; 2° 27' N. on the decl. arc; and, at 8h 10m a. m., 1. m. t., determine a meridian with the solar. Thence I run N. 0° 1' W., bet. secs. 34 and 35. Asc. gradually over gently rolling land, through greasewood and yellowtop.
40.00	Road, from Pipe Springs to head of Hack's canyon, bears NE. and SW. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap 1914 on S. rim; ¼ in N., S35 in E., and S34 in W. half;
80.00	dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor. About 20 chs. W. bears the S. end of Cedar knoll. Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the cor. of secs. 26, 27, 34, and 35, marked on brass cap 1914 on S. rim; T39NR5W in N. half; S27 in NW., S26 in NE., S35 in SE., and S34 in SW. quadrant; dig pits, 18x18x12 ins., in each sec., 5½ ft. dist.;

Subdivision of T. 39 N., R. 5 W.

Chains

and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
 Land, rolling; drains SW. for 30 chs. and NE. for 50 chs.
 Soil, light red sandy loam and clay, with water-worn gravel in N. half mile. Subsoil, light red sandy loam and clay.
 Undergrowth, scattered greasewood and yellowtop.
 Good grazing.
 No timber.

 East, on a random line, bet. secs. 26 and 35.

40.00

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

80.02

Intersect the N. and S. line, 5 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.

Asc. gradually over rolling land, through yellowtop.

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

1914 on S. rim;

S26 in N.,

S35 in S., and

$\frac{1}{4}$ in W. half;

dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist.

and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high,

N. of cor.

64.50

Top of ridge, bears N. 30° E., 30 chs., and S.; desc.

73.30

Road, from Pipe Springs to head of Hack's canyon, bears NE. and SW.

80.02

The cor. of secs. 26, 27, 34, and 35.

Land, rolling; drains NE. for 15 chs. and SE. for 65 chs.

Soil, light red sandy loam, clay, sandstone, and water-worn gravel; Subsoil, light red sandy loam and hard clay.

Undergrowth, scattered yellowtop.

Good grazing.

No timber.

 N. $0^{\circ} 1'$ W., bet. secs. 26 and 27.

Desc. gradually over rolling land, through greasewood and yellowtop.

32.00

S. edge of level flat, bears E. and W.; leave water-worn gravel and greasewood. About 30 chs. W. bears the N. end of Cedar knoll.

37.50

Wash, 8 lks. wide, $\frac{1}{4}$ ft. deep; drains 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

1914 on S. rim;

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

S26 in E., and

S27 in W. half;

dig pits, 18x18x12 ins., N. and S. of post, 3 ft.

dist.; and raise a mound of earth, $\frac{3}{4}$ ft. base, $1\frac{1}{2}$ ft.

high, W. of cor.

45.50

Wash, 8 lks. wide, 5 ft. deep; drains S. 60° E.

80.00

Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the cor. of secs. 22, 23, 26, 27, marked on brass cap

1914 on S. rim;

T39NR5W in N. half;

S22 in NW.,

S23 in NE.,

S26 in SE., and

S27 in SW. quadrant;

dig pits, 18x18x12 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, rolling and level; drains E.

Soil, light red sandy loam, clay, and water-worn gravel.

8.

Subdivision of T. 39 N., R. 5 W.

Chains	Subsoil, light red sandy loam and hard clay. Undergrowth, scattered greasewood, 32 chs; shad scale, 48 chs.; and yellowtop, entire mile. Fair grazing. No timber.
40.00	N. 89° 58' E., on a random line, bet. secs. 23 and 26. Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect the N. and S. line, 2 lks. S. of the cor. of secs. 23, 24, 25, and 26. Thence I run S. 89° 57' W., on a true line, bet. secs. 23 and 26. Desc. gradually over rolling land, through shad scale and yellowtop.
1.30	Point of mesa, bears SE. and SW.
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 1914 on S. rim; S23 in N., S26 in S., and $\frac{1}{4}$ in W. half; dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
45.00	Saddle in ridge, bears NE. and S.
50.00	Enter nearly level flat, bears NW. and S.
58.20	Road, from Pipe Springs to head of Hack's canyon, bears N. and S.
80.00	The cor. of secs. 22, 23, 26, and 27. Land, rolling, hilly, and level. E. half drains NE., W. half, SE. Soil, light red sandy loam; sandstone gravel in E. half; Subsoil, light red sandy loam and clay. Undergrowth, shad scale and yellowtop, 40 chs. Fair grazing. No timber.
	September 17, 1914: I set off 2° 23' N. on the decl. arc; and, at apparent noon, observe the sun on the meridian; the resulting lat. is 36° 45' N. Thence I run N. 0° 1' W., bet. secs. 22 and 23. Over nearly level land, through shad scale.
5.00	Leave nearly level land, bears E. and W.; enter gently 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 1914 on S. rim; $\frac{1}{4}$ in N., S23 in E., and S22 in W. half; dig pits, 18x18x12 ins. N. and S. of post, 3 ft. dist.; and raise a mound of earth, 3 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
77.20	Road, from Pipe Springs to Mt. Trumble, bears NE. and SW.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the cor. of secs. 14, 15, 22, and 23, marked on brass cap 1914 on S. rim; T39NR5W in N. half; S15 in NW., S14 in NE., S23 in SE., S22 in SW. quadrant; dig pits, 18x18x12 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, rolling and level; drains SE. Soil, light red sandy loam and clay, with water-worn gravel, 75 chs.

Subdivision of T. 39 N., R. 5 W.

Chains Subsoil, light red sandy loam and hard clay.
 Undergrowth, shad scale.
 Good grazing.
 No timber.

40.00 N. 89° 57' E., on a random line, bet. secs. 14 and 23.
 Set temp. ¼ sec. cor.
 80.00 Intersect the N. and S. line, 2 lks. N. of the cor. of
 secs. 13, 14, 23, and 24.
 Thence I run
 S. 89° 58' W., on a true line, bet. secs. 14 and 23.
 Asc. gradually over rolling land, through shad scale.
 18.00 Wash, 20 lks. wide, 5 ft. deep; drains SE.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for ¼ sec. cor., marked on brass cap
 1914 on S. rim;
 S14 in N.,
 S23 in S., and
 ¼ in W. half;
 dig pits, 18x18x12 ins., E. and W. of post, 3 ft.
 dist.; and raise a mound of earth, 3½ ft. base, 1½ ft.
 high, N. of cor.
 49.00 Road, from Pipe Springs to head of Hack's canyon, bears
 N. and S.
 77.30 Road, from Pipe Springs to Mt. Trumble, bears NE. and SW.
 80.00 The cor. of secs. 14, 15, 22, and 23.
 Land, rolling; drains SE.
 Soil, light red sandy loam, white clay, and water-worn
 gravel; subsoil, light red sandy loam and white clay.
 Undergrowth, shad scale.
 Good grazing.
 No timber.

40.00 N. 0° 1' W., bet. secs. 14 and 15.
 Asc. gradually over rolling land, through shad scale and
 greasewood.
 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for ¼ sec. cor., marked on brass cap
 1914 on S. rim;
 ¼ in N.,
 S14 in E., and
 S15 in W. half;
 dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.;
 and raise a mound of earth, 3½ ft. base, 1½ ft. high,
 W. of cor.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the
 ground, for the cor. of secs. 10, 11, 14, and 15,
 marked on brass cap
 1914 on S. rim;
 T39NR5W in N. half;
 S10 in NW.,
 S11 in NE.,
 S14 in SE., and
 S15 in SW. quadrant;
 dig pits, 18x18x12 ins. in each sec., 5½ ft. dist.;
 and raise a mound of earth, 4 ft. base, 2 ft. high,
 W. of cor.
 Land, rolling; drains SE. and E.
 Soil, light red sandy loam and white clay, with some water-
 worn gravel; subsoil, light red sandy loam and white
 clay with disintegrated limestone.
 Undergrowth, shad scale and scattered greasewood.
 Good grazing.
 No timber.

September 17, 1914.

September 23, 1914;

10.

Subdivision of T. 39 N., R. 5 W.

- Chains N. 89° 58' E., on a random line, bet. secs. 11 and 14.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.97 Intersect the N. and S. line, 3 lks. S. of the cor. of
 secs. 11, 12, 13, and 14.
 Thence I run
 S. 89° 57' W., on a true line, bet. secs. 11 and 14.
 14.60 Over gently rolling land, through yellowtop.
 Road, from Pipe Springs to Mt. Trumble and head of Hack's
 canyon, bears NE. and SW.
 39.98 $\frac{1}{2}$ Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
 1914 on S. rim;
 S11 in N.,
 S14 in S., and
 $\frac{1}{4}$ in W. half;
 dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist.;
 and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high,
 N. of cor.
 79.97 The cor. of secs. 10, 11, 14, and 15.
 Land, level, E. half; rolling W. half. Drains SE.
 Soil, light red sandy loam and clay. Subsoil, light red
 sandy loam and red clay, 65 chs; light red sandy loam,
 blue clay, and disintegrated limestone, 15 chs.
 Undergrowth, shad scale and yellowtop.
 Good grazing.
 No timber.
-
- N. 0° 1' W., bet. secs. 10 and 11.
 Desc. gradually over rolling land, through yellowtop.
 11.00 Wash, 12 lks. wide, 4 ft. deep; drains 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
 1914 on S. rim;
 $\frac{1}{4}$ in N.,
 S11 in E., and
 S10 in W. half;
 dig pits, 18x18x12 ins., N. and S. of post, 3 ft.
 dist.; and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft.
 high, W. of cor.
 69.25 Wash, 40 lks. wide, 7 ft. deep; drains S. 70° E.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the
 ground, for the cor. of secs. 2, 3, 10, and 11, marked
 on brass cap
 1914 on S. rim;
 T39NR5W in N. half;
 S3 in NW.,
 S2 in NE.,
 S11 in SE., and
 S10 in SW. quadrant;
 dig pits, 18x18x12 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, rolling; drains E.
 Soil, light red sandy loam and clay; subsoil, light red
 sandy loam and hard clay.
 Undergrowth, grass.
 Good grazing.
 No timber.
-
- N. 89° 57' E., on a random line, bet. secs. 2 and 11.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.05 Intersect the N. and S. line, 5 lks. N. of the cor. of
 secs. 1, 2, 11, and 12.
 Thence I run
 S. 89° 59' W., on a true line, bet. secs. 2 and 11.
 40.02 $\frac{1}{2}$ Asc. over rolling land, through yellowtop and greasewood.
 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
 1914 on S. rim;

Subdivision of T. 39 N., R. 5 W.

Chains

S2 in N.,
S11 in S., and
1/4 in W. half;

dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.

80.05

The cor. of secs. 2, 3, 10, and 11.
Land, rolling; drains E.
Soil and subsoil, light red sandy loam and clay, with some disintegrated limestone.
Undergrowth, yellowtop and scattered greasewood.
Fair grazing.
No timber.

N. 0° 1' W., on a random line, bet. secs. 2 and 3.

40.00

Set temp. 1/4 sec. cor.

80.02

Intersect the N. bdy. of the T., 11 lks. W. of the cor. of secs. 2, 3, 34, and 35.

Thence I run

S. 0° 4' W., on a true line, bet. secs. 2 and 3.

Asc. gradually over rolling land, through yellowtop and greasewood.

35.60

Wash, 15 lks. wide, 4 ft. deep; drains SE.

40.02

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

1914 on S. rim;

1/4 in N.,

S2 in E., and

S3 in W. half;

dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.;

and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

44.80

Wash, 25 lks. wide, 8 ft. deep; drains E.

80.02

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

Land, rolling; drains SE.

Soil and subsoil, light red sandy loam and clay.

Undergrowth, scattered greasewood in N. half;

Good grazing.

No timber.

September 23, 1914.

September 18, 1914: At the cor. of secs. 3, 4, 33, and 34, Ts. 38 and 39 N., R. 5 W. I set off 36° 44' N. on the lat. arc; 2° 4' N. on the decl. arc; and, at 7h 56m a. m., 1. m. t., determine a meridian with the solar.

Thence I run

N. 0° 2' W., bet. secs. 33 and 34.

Over nearly level land, through shad scale.

20.00

Leave level land, bears E. and W.; enter rolling land; asc. gradually.

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

1914 on S. rim;

1/4 in N.,

S34 in E., and

S33 in W. half;

dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.;

and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

43.00

Top of ascent, bears E. and W.; desc. gradually over rolling land.

80.00

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

1914 on S. rim;

T39NR5W in N. half;

S28 in NW.,

S27 in NE.,

12.

Subdivision of T. 39 N., R. 5 W.

Chains	<p>S34 in SE., and S33 in SW. quadrant; dig pits, 18x18x12 ins., in each sec., 5½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, gently rolling and level; drains SE., 43 chs., and NE. 37 chs. Soil, light red sandy loam and clay, with water-worn gravel in the N. half. Subsoil, light red sandy loam and clay. Undergrowth, shad scale. Good grazing. No timber.</p> <p>-----</p>
40.00	East, on a random line, bet. secs. 27 and 34.
80.08	Set temp. ¼ sec. cor. Intersect the N. and S. line, 2 lks. S. of the cor. of secs. 26, 27, 34, and 35. Thence I run S. 89° 59' W., on a trueline, bet. secs. 27 and 34. Asc. gradually, over rolling land, through shad scale and yellowtop.
10.00	Base of Cedar knoll, bears N. 20° W. and S. 20° E.; asc. over broken, rocky land, through dense scrub cedar tim- ber.
30.00	Top of Cedar knoll, 60 ft. above bottom; desc. abruptly.
37.00	Base of Cedar knoll, bears N. and S., 60 ft. below top; leave dense cedar and pinion timber; enter open roll- ing land; drains NE.
40.04	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap 1914 on S. rim; S27 in N., S34 in S., and ¼ in W. half; dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.
80.08	The cor. of secs. 27, 28, 33, and 34. Land, rolling and broken. Soil, light red sandy loam, of medium texture, 3 to 5 ft. deep, on subsoil of hard red clay, 53 chs.; coarse grav- el and rock, 27 chs. Timber, scrub cedar and pinion, 27 chs. Undergrowth, shad scale and yellowtop. Good grazing. <p>-----</p>
1.25	N. 0° 2' W., bet. secs. 27 and 28. Desc. gradually over rolling land, through shad scale. Wash, in hollow, 10 lks. wide, 4 ft. deep; drains NE.; asc. gradually.
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 1914 on S. rim; ¼ in N., S27 in E., and S28 in W. half; dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.
46.40	Road, from Pipe Springs to Mt. Trumble, bears NE. and SW.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the cor. of secs. 21, 22, 27, and 28, marked on brass cap 1914 on S. rim; T39NR5W in N. half; S21 in NW., S22 in NE., S27 in SE., and

Chains S28 in SW. quadrant;
 dig pits, 18x18x12 ins., in each sec., 5½ ft. dist.;
 and raise a mound of earth, 4 ft. base, 2 ft. high, W.
 of cor.
 Land, rolling; drains NE.
 Soil, light red sandy loam, of medium texture, 3 to 5 ft.
 deep, on subsoil of light red clay.
 Undergrowth, shad scale.
 Good grazing.
 No timber.

40.00 N. 89° 59' E., on a random line, bet. secs. 22 and 27.
 Set temp. ¼ sec. cor.
 80.09 Intersect the N. and S. line, 2 lks. N. of the cor. of
 secs. 22, 23, 26, and 27.
 Thence I run
 West, on a true line, bet. secs. 22 and 27.
 Over rolling land, through shad scale.
 25.00 Saddle in ridge, 40 ft. above surrounding land, bears N.
 and S., about ½ mile.
 40.04½ Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for ¼ sec. cor., marked on brass cap
 1914 on S. rim;
 S22 in N.,
 S27 in S., and
 ¼ in W. half;
 dig pits, 18x18x12 ins., E. and W. of post, 3 ft.
 dist.; and raise a mound of earth, 3½ ft. base,
 1½ ft. high, N. of cor.
 57.40 Road, from Pipe Springs to Mt. Trumble, bears NE. and SW.
 80.09 The cor. of secs. 21, 22, 27, and 28.
 Land, rolling; drains SE.
 Soil, light red sandy loam, clay, and some water-worn
 gravel; subsoil, light red sandy loam and clay.
 Undergrowth, scattered shad scale and greasewood.
 Good grazing.
 No timber.

September 18, 1914: I set off 2° 00' N. on
 the decl; arc; and, at apparent noon, observe the sun
 on the meridian; the resulting lat. is 36° 45' N.
 Thence I run
 N. 0° 2' W., bet. secs. 21 and 22.
 Over rolling land, through greasewood; asc. gradually.
 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
 1914 on S. rim;
 ¼ in N.,
 S22 in E., and
 S21 in W. half;
 dig pits, 18x18x12 ins., N. and S. of post, 3 ft.
 dist.; and raise a mound of earth, 3½ ft. base, 1½ ft.
 high, W. of cor.
 75.00 Low ridge, 30 ft. high, bears NE. and W.; desc. gradually.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the
 ground, for the cor. of secs. 15, 16, 21, and 22,
 marked on brass cap
 1914 on S. rim;
 T39NR5W in N. half;
 S16 in NW.,
 S15 in NE.,
 S22 in SE., and
 S21 in SW. quadrant;
 dig pits, 18x18x12 ins., in each sec., 5½ ft. dist.;
 and raise a mound of earth, 4 ft. base, 2 ft. high, W.
 of cor.
 Land, gently rolling; drains SE.
 Soil, light red sandy loam, clay, and water-worn gravel.
 Subsoil, light red sandy loam and clay.

14.

Subdivision of T. 39 N., R. 5 W.

Chains	Undergrowth, scattered greasewood. Good grazing. No timber.

40.00	East, on a random line, bet. secs. 15 and 22. Set temp. $\frac{1}{4}$ sec. cor.
80.08	Intersect the N. and S. line, 2 lks. N. of the cor. of secs. 14, 15, 22, and 23. Thence I run N. $89^{\circ} 59'$ W., on a true line, bet. secs. 15, and 22. Asc. gradually, over rolling land, through greasewood.
40.04	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for P sec. cor., marked on brass cap 1914 on S. rim; S15 in N., S22 in S., and $\frac{1}{4}$ in W. half; dig pits, $18 \times 18 \times 12$ ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
73.00	Top of low ridge, 30 ft. high, bears N. and S.; desc. grad- ually.
80.08	The cor. of secs. 15, 16, 21, and 22. Land, rolling; drains E. Soil, light sandy loam, clay, and water-worn gravel; sub- soil, light sandy loam, clay, and disintegrated shale. Undergrowth, scattered greasewood. Good grazing. No timber.

40.00	N. $0^{\circ} 2'$ W., bet. secs. 15 and 16. Desc. gradually, over rolling land, through greasewood. 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 1914 on S. rim; $\frac{1}{4}$ in N., S15 in E., and S16 in W. half; dig pits, $18 \times 18 \times 12$ ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the cor. of secs. 9, 10, 15, and 16, marked on brass cap 1914 on S. rim; T39NR5W in N. half; S9 in NW., S10 in NE., S15 in SE., and S16 in SW. quadrant; dig pits, $18 \times 18 \times 12$ 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, rolling; drains NE. Soil, light red sandy loam, clay, and water-worn gravel. Subsoil, light red sandy loam, clay, and disintegrated limestone. Undergrowth, scattering greasewood. Good greasewood. No timber.

40.00	S. $89^{\circ} 59'$ E., on a random line, bet. secs. 10 and 15. Set temp. $\frac{1}{4}$ sec. cor.
80.04	Intersect the N. and S. line, at the cor. of secs. 10, 11, 14, and 15. Thence I run

Subdivision of T. 39 N., R. 5 W.

Chains N. 89° 59' W., on a true line, bet. secs. 10 and 15.
 Asc. gradually over rolling land, through greasewood.
 40.02 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for ¼ sec. cor., marked on brass cap
 1914 on S. rim;
 S10 in N.,
 S15 in S., and
 ¼ in W. half;
 dig pits, 18x18x12 ins., E. and W. of post, 3 ft.
 dist.; and raise a mound of earth, 3½ ft. base, 1½ ft.
 high, N. of cor.
 80.04 The cor. of secs. 9, 10, 15, and 16.
 Land, gently rolling; drains NE.
 Soil, light red sandy loam, clay, and water-worn gravel.
 Subsoil, light red sandy loam, clay, and disintegrated
 limestone.
 Undergrowth, scattered greasewood.
 Good grazing.
 No timber.

September 18, 1914.

 September 24, 1914: I set off 36° 47' N.
 on the lat. arc; 0° 15' S. on the decl. arc; and, at 7h
 22m a. m., 1. m. t., determine the meridian with the
 solar.

Thence I run
 N. 0° 2' W., bet. secs. 9 and 10.
 Desc. gradually, over rolling land, through shad scale and
 yellowtop.

24.00 Wash, 15 lks. wide, 3 ft. deep; drains S. 80° 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
 1914 on S. rim;
 ¼ in N.,
 S10 in E., and
 S9 in W. half;
 dig pits, 18x18x12 ins. N. and S. of post, 3 ft. dist.;
 and raise a mound of earth, 3½ ft. base, 1½ ft. high,
 W. of cor.

70.00 Wash, 10 lks. wide, 8 ft. deep; drains E.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the
 ground, for the cor. of secs. 3, 4, 9, and 10, marked
 on brass cap

1914 on S. rim;
 T39NR5W in N. half;
 S4 in NW.,
 S3 in NE.,
 S10 in SE., and
 S9 in SW. quadrant;
 dig pits, 18x18x12 ins., in each sec., 5½ ft. dist.;
 and raise a mound of earth, 3½ ft. base, 1½ ft. high,
 W. of cor.
 Land, rolling; drains E.
 Soil, light red sandy loam, clay, and water-worn gravel;
 disintegrated limestone, 15 chs. Subsoil, light red
 sandy loam and clay.
 Undergrowth, shad scale and yellowtop, 15 chs.
 Good grazing.
 No timber.

 S. 89° 59' E., on a random line, bet. secs. 3 and 10.
 40.00 Set temp. ¼ sec. cor.

80.04 Intersect the N. and S. line, at the cor. of secs. 2, 3,
 10, and 11.

Thence I run
 N. 89° 59' W., on a true line, bet. secs. 3 and 10.
 Asc. gradually, over rolling land, through yellowtop and
 grass.

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

16.

Subdivision of T. 39 N., R. 5 W.

- Chains ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
1914 on S. rim;
S3 in N.,
S10 in S., and
 $\frac{1}{4}$ in W. half;
dig pits, 18x18x12 ins., E. and W. of post, 3 ft.
dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft.
high, N. of cor.
- 80.04 The cor. of secs. 3, 4, 9, and 10.
Land, gently rolling; drains SE.
Soil and subsoil, light red sandy loam and clay.
Undergrowth, grass.
Exceptionally good grazing.
No timber.
-
- 40.00 N. $0^{\circ} 2'$ W., on a random line, bet. secs. 3 and 4.
Set temp. $\frac{1}{4}$ sec. cor.
- 79.98 Intersect the N. bdy. of the T., 25 lks. W. of the cor.
of secs. 3, 4, 33, and 34.
Thence I run
S. $0^{\circ} 9'$ W., on a true line, bet. secs. 3 and 4.
Asc. gradually over rolling land, through greasewood.
16.25 Wash, 50 lks. wide, 8 ft. deep; drains E.
- 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
1914 on S. rim;
 $\frac{1}{4}$ in W.,
S3 in E., and
S4 in W. half;
dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist;
and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high,
W. of cor.
- 48.50 Wash, 20 lks. wide, 5 ft. deep; drains E.
- 79.98 The cor. of secs. 3, 4, 9, and 10.
Land, gently rolling; drains E.
Soil and subsoil, light red sandy loam and clay.
Undergrowth, scattered greasewood, N. half mile.
Exceptionally good grazing.
No timber.
September 24, 1914: No lat. observation taken at noon;
walking between cors. September 24, 1914.
-
- September 19, 1914: At the cor. of secs. 4, 5, 32, and 33
Ts. 38 and 39 N., R. 5 W. I set off $36^{\circ} 44'$ N. on
the lat. arc; $1^{\circ} 40'$ N. on the decl. arc; and, at 8h
24m a. m., 1. m. t., determine a meridian with the so-
lar.
- Thence I run
N. $0^{\circ} 3'$ W., bet. secs. 32 and 33.
Asc. gradually, over gently rolling land, through grease-
wood and yellowtop.
- 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
1914 on S. rim;
 $\frac{1}{4}$ in N.,
S33 in E., and
S32 in W. half;
dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist;
and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high,
W. of cor.
- 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the
ground, for the cor. of secs. 28, 29, 32, and 33.
marked on brass cap
1914 on S. rim;
T39NR5W in N. half;
S29 in NW.,
S28 in NE.,
S33 in SE., and

Chains

S32 in SW. quadrant;
 dig pits, 18x18x12 ins., in each sec., 5 1/2 ft. dist.;
 and raise a mound of earth, 4 ft. base. 2 ft. high, W.
 of cor.
 Land, gently rolling; drains SE.
 Soil, light red sandy loam, of medium texture, from 3 to
 5 ft. deep, on subsoil of hard red clay.
 Undergrowth, shad scale and greasewood.
 Good grazing.
 No timber.

 East, on a random line, bet. secs. 28 and 33.

40.00

Set temp. 1/4 sec. cor.

79.95

Intersect the 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.

Asc. gradually, over rolling land, through greasewood.

29.75

Road, from Pipe Springs to Mt. Trumole, bears NE. and SW.

39.97 1/2

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

1914 on S. rim;

S28 in N.,

S33 in S., and

1/4 in W. half;

dig pits, 18x18x12 ins., E. and W. of post, 3 ft.
 dist.; and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft.
 high, N. of cor.

79.95

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

Land, gently rolling; drains SE.

Soil, light red sandy loam and clay; subsoil, light red
sandy loam, clay, and gravel.

Undergrowth, scattered greasewood.

Good grazing.

 N. 0° 3' W., bet. secs. 28 and 29.

Asc. gradually, over rolling land, through greasewood.

39.80

Wash, 10 lks. wide, 4 ft. deep; drains SE.

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

1914 on S. rim;

1/4 in N.,

S28 in E., and

S29 in W. half;

dig pits, 18x18x12 ins., N. and S. of post, 3 ft.
 dist.; and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft.
 high, W. of cor.

60.00

Leave gently rolling land, bears E. and W.; enter broken
foothills of mesa.

80.00

Set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the
 ground, to sandstone bedrock, surrounded by a mound of
 stone, for the cor. of secs. 20, 21, 28, and 29,
 marked on brass cap

1914 on S. rim;

T39NR5W in N. half;

S20 in NW.,

S21 in NE.,

S28 in SE., and

S29 in SW. quadrant; and

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

Land, rolling, 60 chs.; broken, 20 chs.; drains SE.

Soil, light red sandy loam, of medium texture, with sub-
soil of red clay, 60 chs.; blue clay and adobe, 20 chs.

Undergrowth, greasewood.

Good grazing.

No timber.

Chains	September 19, 1914: I set off $1^{\circ} 36'$ N. on the decl. arc; and, at apparent noon, observe the sun on the meridian; the resulting lat. is $36^{\circ} 45'$ N. Thence I run East, on a random line, bet. secs. 21 and 28.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.96	Intersect the 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.
39.98	Asc. gradually over rolling land, through greasewood. 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 1914 on S. rim; S21 in N., S28 in S., and $\frac{1}{4}$ in W. half; dig pits, $18 \times 18 \times 12$ ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
55.00	Leave gently rolling land; enter broken foothills of mesa, bearing NE. and SW.
79.96	The cor. of secs. 20, 21, 28, and 29. Land, gently rolling, 55 chs.; broken foothills, 15 chs.; drains SE. Soil, light red sandy loam and clay, 55 chs.; disintegrated limestone, red sandstone, gypsum, and rock, 15 chs. Undergrowth, scattered greasewood. Good grazing, 55 chs. No timber.

	N. $0^{\circ} 3'$ W., bet. secs. 20 and 21. Asc. abruptly over broken SE. slope of Cedar ridge.
4.25	Top of perpendicular ledge, 70 ft. high, bears E. and W.
6.75	Top of perpendicular ledge, 100 ft. high, bears E. and W., 290 ft. above section cor.; desc. gradually over broken top of Cedar ridge, through dense scrub cedar and pinion timber and buck brush.
31.00	Head of canyon, 2 chs. wide, 25 ft. deep; drains 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 1914 on S. rim; $\frac{1}{4}$ in N., S21 in E., and S20 in W. half; from which A cedar, 10 ins. diam., bears S. 45° E., 22 lks. dist., marked $\frac{1}{4}$ S21BT. A cedar, 12 ins. diam., bears S. $7^{\circ} 30'$ W., 17 lks. dist., marked $\frac{1}{4}$ S20BT.
	September 19, 1914. September 22, 1914: At this cor., I set off $36^{\circ} 46'$ N. on the lat. arc; $0^{\circ} 31'$ N. on the decl. arc; and, at 7h 53m a. m., 1. m. t., determine a meridian with the solar.
44.00	Ledge rim of spur, bears NE. and SW.; desc. abruptly.
45.30	Base of ledge, 40 ft. below top, bears NE. and SW.
52.50	Wash, in bottom of canyon, 20 lks. wide, 3 ft. deep, drains E.; 130 ft. below top of ledge. Continue descent in canyon bottom.
66.00	Same wash, 25 lks. wide, 3 ft. deep, drains NW.
71.00	Same wash, drains N. 20° E.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the cor. of secs. 16, 17, 20, and 21, marked on brass cap 1914 on S. rim; T39NR5W in N. half; S17 in NW., S16 in NE., S21 in SE., and S20 in SW. quadrant; from which A cedar, 8 ins. diam., bears N. $39^{\circ} 45'$ E., 97 lks.

Chains

dist., marked T39NR5WS16BT.
 A cedar, 6 ins. diam., bears S. 43° 30' E., 64 lks.
 dist., marked T39NR5WS21BT.
 A pinion, 14 ins. diam., bears S. 21° 30' W., 207 lks.
 dist., marked T39NR5WS20BT.
 A cedar, 14 ins. diam., bears N. 19° 30' W., 72 lks.
 dist., marked T39NR5WS17BT.
 Land, broken and mountainous, drains N.
 Soil, coarse gravel and rocky, on disintegrated red sandstone.
 Timber, dense scrub cedar and pinion.
 Undergrowth, buck brush.
 Fair grazing in bottom of canyon.

East, on random line, bet. secs. 16 and 21.
 40.00 Set temp. 1/4 sec. cor.
 79.98 Intersect the N. and S. line, 16 lks. S. of the cor. of secs. 15, 16, 21, and 22.
 Thence I run
 S. 89° 53' W., on a true line, bet. secs. 16 and 21.
 Asc. over rolling land, through shad scale.
 17.00 Asc. abruptly over broken E. slope of Cedar ridge, bears N. 20° E. and S. 20° W.
 35.75 Top of ledge, 75 ft. high, 260 ft. above bottom, bears N. 20° E. and S. 20° W.; asc. gradually over rolling top of Cedar ridge; enter dense cedar and pinion timber.
 39.99 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for 1/4 sec. cor., marked on brass cap
 1914 on S. rim;
 S16 in N.,
 S21 in S., and
 1/4 in W. half; from which
 A cedar, 18 ins. diam., bears N. 86° 30' E., 102 lks.
 dist., marked 1/4 S16BT.
 A cedar, 24 ins. diam., bears S. 28° W., 151 lks.
 dist., marked 1/4 S21BT.
 52.00 Top of gradual ascent, bears N. and S.; desc. gradually over rocky surface.
 61.00 Rim of canyon, 20 ft. high, bears NW. and SE.; desc. abruptly over broken canyon side.
 66.70 Wash, 20 lks. wide, 2 ft. deep, in bottom of canyon, 100 ft. below top, drains NW.; asc. abruptly.
 71.70 Spur, projecting NW.; 80 ft. above bottom of canyon; desc. abruptly.
 79.00 Wash, 25 lks. wide, 3 ft. deep, in bottom of canyon; course NW.; 80 ft. below top of spur.
 79.98 The cor. of secs. 16, 17, 20, and 21.
 Land, rolling, 15 chs.; broken and mountainous, 55 chs.
 E. half drains NE.; W. half, NW.
 Soil, light red sandy loam, of medium texture, 17 chs.; blue clay and coarse gravel, 53 chs.
 Timber, scrub cedar and pinion.
 Good grazing.

September 22, 1914: I set off 0° 26' N. on the decl. arc; and, at apparent noon, observe the sun on the meridian; the resulting lat. is 36° 46' N.
 Thence I run
 N. 0° 3' W., bet. secs. 16 and 17.
 Desc. gradually over broken mountainous land, through dense scrub cedar and pinion timber.
 3.00 Wash, 25 lks. wide, 3 ft. deep, drains NW., 15 chs, thence NE.
 9.75 Wash, 15 lks. wide, 3 ft. deep, drains W.; asc. abruptly over broken canyon slope.
 24.00 Rim of canyon, 20 ft. high, 150 ft. above bottom of canyon bears NW. and SE.; desc. gradually over spur, projecting NW.
 33.30 Broken rim of canyon, 30 ft. high, bears NE. and SW.;

Chains	desc. abruptly.
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 1914 on S. rim; $\frac{1}{4}$ in N., S16 in E., and S17 in W., half; from which A cedar, 12 ins. diam., bears S. 34° W., 212 lks. dist., marked $\frac{1}{4}$ S17BT. A pinion, 10 ins. diam., bears S. $19^{\circ} 30'$ E., 128 lks. dist., marked $\frac{1}{4}$ S16BT.
46.00	This cor. is located in cove of canyon, 150 ft. below top. Start abrupt ascent, bears E. and W.
51.00	Boulder, 30x25x30 ft., on line, on spur projecting W. Rim of canyon bears E. 1 ch., bearing NE. and SE.; desc. gradually.
68.00	Bottom of canyon, 75 ft. below boulder, bears W. and N. 35° W.; asc.
72.00	E. slope, near top of knoll, 60 ft. above bottom of canyon, bears E. and W.; desc.
79.40	Wash, 8 lks. wide, 2 ft. deep, drains NW.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 20 ins. in the ground, to bedrock, surrounded by a mound of stone, for the cor. of secs. 8, 9, 16, and 17, marked on brass cap 1914 on S. rim; T39NR5W in N. half; S8 in NW., S9 in NE., S16 in SE., and S17 in SW. quadrant; from which A pinion, 16 ins. diam., bears N. 74° E., 16 lks. dist., marked T39NR5WS9BT. A cedar, 8 ins. diam., bears S. 46° E., 20 lks. dist., marked T39NR5WS16BT. A cedar, 20 ins. diam., bears S. 21° W., 80 lks. dist., marked T39NR5WS17BT. A cedar, 17 ins. diam., bears N. $36^{\circ} 30'$ W., 51 lks. dist., marked T39NR5WS8BT. Land, broken and mountainous; drains N. and W. Soil, rocky and coarse gravel, with bedrock close to surface. Timber, dense scrub cedar and pinion. Undergrowth, buck brush. Fair grazing in bottom of canyon.
40.00	N. $89^{\circ} 53'$ E., on a random line, bet. secs. 9 and 16. Set temp. $\frac{1}{4}$ sec. cor.
80.03	Intersect the N. and S. line, 2 lks. N. of the cor. of secs. 9, 10, 15, and 16. Thence I run S. $89^{\circ} 54'$ W., on a true line, bet. secs. 9 and 16. Asc. gradually over rolling land, through shad scale and scattered scrub cedar and pinion.
7.00	Base of abrupt ascent, bears NW. and SW.; asc. abruptly over broken E. slope.
14.00	Top of circular flat butte, 225 ft. above cor., encircled with perpendicular rim, 90 ft. high on the E. and 20 ft. high on the W. side.
16.00	W. edge of butte; desc. abruptly.
22.00	Base of abrupt descent, 175 ft. below top; continue over rolling land.
35.00	Start abrupt ascent, over broken E. slope of Cedar ridge, bears N. 20° E. and S. 10 chs.; thence W. 10 chs.; S. 20 chs.; thence E., forming a cove; general course, S. 30° E.
40.01 $\frac{1}{2}$	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap 1914 on S. rim; S9 in N., S16 in S., and

Chains

1/4 in W. half; and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Pits impracticalbe. Trees too small for bearing trees.

74.00 This cor. is established on E. edge of Cedar ridge, 175 ft. above bottom; continue over broken mesa top, drains NE.

80.03 W. edge of mesa and rim 30 ft. high, bears NW. and SE.; desc.

The cor. of secs. 8, 9, 16, and 17, 125 ft. below top of mesa.

Land, rolling and mountainous. Soil, light red sandy loam, 20 chs.; rocky and coarse gravel, 60 chs. Subsoil, dark red clay, 20 chs.; sandstone bedrock, 60 chs. Timber, scrub cedar and pinion. Good grazing, 20 chs.

September 22, 1914.

September 24, 1914.

N. 0° 3' W., bet. secs. 8 and 9. Desc. gradually over broken E. side of canyon, through scattered scrub cedar and pinion, and sagebrush.

5.10 Stake and rider fence, bears E. and W.

6.50 Wash, in bottom of canyon, 35 lks. wide, 7 ft. deep; drains NE.

8.60 Same wash, drains W.

14.25 Same wash, drains NE.; continue over canyon bottom.

28.00 Foot of canyon slope, bears N. 35° E. and S. 80° W.; asc. abruptly.

33.00 Point of mesa rim, 40 ft. high, projecting N. 20° E., 125 ft. above bottom of canyon; desc. gradually over broken rocky mesa top, through dense cedar and pinion timber.

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 1914 on S. rim;

1/4 in N., S9 in E., and S8 in W. half; from which

A pinion, 10 ins. diam., bears S. 24° 30' E., 42 lks. dist., marked 1/4 S9BT.

A cedar, 8 ins. diam., bears S. 82° W., 70 lks. dist., marked 1/4 S8BT.

50.00 Leave dense cedar and pinion timber, bears E. and W.; enter scattered timber, with sagebrush and yellowtop.

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

1914 on S. rim; T39NR5W in N. half; S5 in NW., S4 in NE., S9 in SE., and S8 in SW. quadrant; from which

A cedar, 17 ins. diam., bears N. 22° E., 304 lks. dist., marked T39NR5WS4BT.

A cedar, 16 ins. diam., bears S. 27° E., 193 lks. dist., marked T39NR5WS9BT.

A cedar, 8 ins. diam., bears S. 58° 30' W., 90 lks. dist., marked T39NR5WS8BT.

A cedar, 8 ins. diam., bears N. 78° W., 107 lks. dist., marked T39NR5WS5BT.

Land, rough and broken, drains E. Soil, light red sandy loam, of medium texture, in canyon bottom, coarse gravel and stony the remainder of the mile. Subsoil, dark red and blue clay.

Timber, scrub cedar and pinion. Undergrowth, sagebrush and yellowtop.

Good grazing in canyon bottom.

September 24, 1914.

22.

Subdivision of T. 39 N., R. 5 W.

- Chains September 26, 1914.
 N. $89^{\circ} 54'$ E., on a random line, bet. secs. 4 and 9.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.93 Intersect the N. and S. line, 12 lks. S. of the cor. of
 secs. 3, 4, 9, and 10.
 Thence I run
 S. $89^{\circ} 49'$ W., on a true line, bet. secs. 4 and 9.
 Over rolling land; asc. gradually.
 20.00 Two buttes, connected by low saddle, bear S. about 20
 chs. Buttes bear N. 35° E. and S. 35° W. from each
 other. A wash, course E., runs N. of the buttes.
 39.96 $\frac{1}{2}$ Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
 1914 on S. rim;
 S4 in N.,
 S9 in S., and
 $\frac{1}{2}$ in W. half;
 dig pits, 18x18x12 ins., E. and W. of post, 3 ft.
 dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft.
 high, N. of cor.
 50.00 Butte and short ridge, bear S. about 5 chs.; ridge ex-
 tends N. and S.
 50.75 Wash, 8 lks. wide, 2 ft. deep, drains N.
 64.50 E. edge Cedar ridge, bears N. and S.; leave rolling land;
 asc. abruptly.
 66.70 Top of Cedar ridge and rim 20 ft. high, 75 ft. above bot-
 tom, bears N. and S.; enter dense cedar and pinion
 timber.
 79.93 The cor. of secs. 4, 5, 8, and 9.
 Land, rolling and broken mesa slope, drains NE.
 Soil, light red sandy loam, with hard clay subsoil, 72
 chs.; rocky, 7 chs.
 Timber, scrub cedar and pinion.
 Good grazing.

September 26, 1914.

- September 24, 1914.
 N. $0^{\circ} 3'$ W., on a random line, bet. secs. 4 and 5.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.20 Intersect the N. bdy. of the T., 9 lks. W. of the cor. of
 secs. 4, 5, 32, and 33.
 Thence I run
 S. $0^{\circ} 1'$ W., on a true line, bet. secs. 4 and 5.
 Asc. gradually over rolling land.
 10.00 Enter scattered scrub cedar and pinion, bears NE. and SW.
 22.50 Wash, in small canyon, 40 lks. wide, 20 ft. deep; drains
 N. 70° E.
 40.20 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
 1914 on S. rim;
 $\frac{1}{4}$ in N.,
 S4 in E., and
 S5 in W. half; from which
 A cedar, 14 ins. diam., bears N. $40^{\circ} 30'$ E., 149 lks.
 dist., marked $\frac{1}{4}$ S4BT.
 A cedar, 16 ins. diam., bears N. 75° W., 45 lks.
 dist., marked $\frac{1}{4}$ S 5BT.
 Continue gradual ascent.
 80.20 The cor. of secs. 4, 5, 8, and 9.
 Land, rolling and broken, drains NE.
 Soil, light red sandy loam, of medium texture, in N. half;
 stony and coarse gravel in S. half; subsoil, red clay.
 Timber, scattered scrub cedar and pinion.
 Undergrowth, greasewood.
 Good grazing.

September 24, 1914.

September 21, 1914: At the cor. of secs. 5, 6, 31 and 32,
 Ts. 38 and 39 N., R. 5 W., I set off $36^{\circ} 44'$ N. on the

Subdivision of T. 39 N., R. 5 W.

Chains lat. arc; 0° 53' N. on the decl. arc; and, at 8h 53m a. m., l. m. t., determine a meridian with the solar. Thence I run N. 0° 3' W., bet. secs. 31 and 32. Asc. gradually over rolling land, through greasewood. Wash, 50 lks. wide, 10 ft. deep; course, SE.

22.00
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
1914 on S. rim;
1/4 in N.,
S32 in E., and
S31 in W. half;
dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

80.00 Continue gradual ascent. Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the cor. of secs. 29, 30, 31, and 32, marked on brass cap
1914 on S. rim;
T39NR5W in N. half;
S30 in NW.,
S29 in NE.,
S32 in SE., and
S31 in SW. quadrant;
dig pits, 18x18x12 ins., in each sec., 5 1/2 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, rolling, drains SE.
Soil, light red sandy loam and clay. Subsoil, same.
Undergrowth, greasewood.
Good grazing.
No timber.

40.00 East, on a random line, bet. secs. 29 and 32. Set temp. 1/4 sec. cor.,

79.93 Intersect the N. and S. line at the cor. of secs. 28, 29, 32, and 33. Thence I run West, on a true line, bet. secs. 29 and 32. Asc. gradually over rolling land, through greasewood.

39.96 1/2 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for 1/4 sec. cor., marked on brass cap
1914 on S. rim;
S29 in N.,
S32 in S., and
1/4 in W. half;
dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.

79.93 The cor. of secs. 29, 30, 31, and 32. Land, gently rolling; drains SE. Soil and subsoil, light red sandy loam and clay. Undergrowth, scattered greasewood. Good grazing. No timber.

September 21, 1914: I set off 0° 49' N. on the decl. arc; and, at apparent noon, observe the sun on the meridian; the resulting lat. is 36° 45' N.

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

40.00
78.89 Set temp. 1/4 sec. cor. Intersect the W. bdy. of the T., 4 lks. S. of the cor. of secs. 25, 30, 31, and 36. Thence I run S. 89° 58' E., on a true line, bet. secs. 30 and 31. Desc. gradually over rolling land, through greasewood. Soil, blue clay and alkali.

24.

Subdivision of T. 39 N., R. 5 W.

Chains	
15.00	Leave blue clay and alkali; enter light red sandy loam, bears N. and S.
38.89	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 1914 on S. rim; S30 in N., S31 in S., and $\frac{1}{4}$ in W. half; dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
78.89	The cor. of secs. 29, 30, 31, and 32. Land, rolling; drains SE. Soil, light red sandy loam, of medium texture, with red clay subsoil, 65 chs; blue clay and alkali, 15 chs. Undergrowth, greasewood. Good grazing. No timber.

40.00	N. 0° 3' W., bet. secs. 29 and 30. Asc. gradually over rolling land, through greasewood. 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 1914 on S. rim; $\frac{1}{4}$ in N., S29 in E., and S30 in W. half; dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Continue gradual ascent, over several small washes, draining SE.
46.00	Wash, 30 lks. wide, 8 ft. deep; drains E.
68.50	Leave rolling land, enter broken foothills of mesa, bear E. and SW.
74.00	Base of steep rocky slope of mesa, bears E. and S. 50° W.; asc. abruptly.
76.50	Top of disintegrated sandstone ledge, 20 ft. high, bears E. and S. 50° W.; continue abrupt ascent.
79.00	Top of Cedar ridge and ledge, 70 ft. high, 250 ft. above bottom, bears N. 85° E. and S. 50° W.; continue over rolling top of Cedar ridge, through dense scrub cedar and pinion timber.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 4 ins. in the ground, to bedrock, surrounded by a mound of stone, for the cor. of secs. 19, 20, 29, and 30, marked on brass cap 1914 on S. rim; T39NR5W in N. half; S19 in NW., S20 in NE., S29 in SE., and S30 in SW. quadrant; from which A pinion, 6 ins. diam., bears N. 66° E., 13 lks. dist., marked T39NR5WS20BT. A pinion, 7 ins. diam., bears S. 47° 30' E., 110 lks. dist., marked T39NR5WS29BT. A pinion, 6 ins. diam., bears S. 61° 30' W., 35 lks. dist., marked T39NR5WS30BT. A pinion, 10 ins. diam., bears N. 15° W., 29 lks. dist., marked T39NR5WS19BT. Land, rolling, broken, and mountainous; drains SE. Soil, light red sandy loam, of medium texture, blue clay and alkali, water-worn gravel, disintegrated sandstone and rocky. Timber, cedar and pinion. Undergrowth, greasewood. Good grazing.

Subdivision of T. 39 N., R. 5 W.

Chains East, on a random line, bet. secs. 20 and 29.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.98 Intersect the N. and S. line, 3 lks. S. of the cor. of
 secs. 20, 21, 28, and 29.
 Thence I run
 S. $89^{\circ} 59'$ W., on a true line, bet. secs. 20 and 29.
 Asc. over broken base of mesa.
 39.99 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
 1914 on S. rim;
 S20 in N.,
 S29 in S., and
 $\frac{1}{4}$ in W. half; and
 raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of
 cor. Pits impracticable. No trees within limits.
 This cor. is located at base of disintegrated sandstone
 ledge, 50 ft. high; asc. abruptly.
 47.50 Top of point of mesa, 200 ft. above $\frac{1}{4}$ sec. cor.; projects
 S. Enter dense cedar and pinion, bears N. 80° E. and SW.
 52.00 Point of mesa, projecting S.
 56.00 Edge of mesa and ledges, 80 ft. high, bears NW. and SE.;
 leave dense scrub cedar and pinion timber; desc. ab-
 ruptly.
 64.00 Base of mesa, 230 ft. below top, bears NW. and SE.; asc.
 abruptly.
 79.00 Top of mesa and ledge, 90 ft. high, 230 ft. above bottom,
 bears N. 70° E. and S. 70° W.; enter dense cedar and
 pinion timber.
 79.98 The cor. of secs. 19, 20, 29, and 30.
 Land, rough and broken; drains S.
 Soil, fine light sand and disintegrated sandstone.
 Timber, scrub cedar and pinion.
 No grazing.

September 21, 1914.

 September 25, 1914: I set off $0^{\circ} 39'$ S. on
 the decl. arc; $36^{\circ} 45' 30''$ N. on the lat. arc; and, at
 7h 52m a. m., 1. m. t., determine a meridian with the
 solar.

Thence I run
 N. $89^{\circ} 58'$ W., on a random line, bet. secs. 19 and 30.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 78.82 Intersect the W. bdy. of the T., at pt. for cor. of secs. 19,
 24, 25, and 30.
 Thence I run
 S. $89^{\circ} 58'$ E., on a true line, bet. secs. 19 and 30.
 Desc. abruptly over broken edge of mesa.
 4.00 Bottom of gulch, 150 lks. wide, drains S., 75 ft. below
 sec. cor.; asc. abruptly.
 11.50 Edge of mesa, 125 ft. above bottom of gulch, bears NW.
 and SE.; enter rolling mesa top.
 38.82 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
 1914 on S. rim;
 S19 in N.,
 S30 in S., and
 $\frac{1}{4}$ in W. half;
 dig pits, 18x18x12 ins., E. and W. of post, 3 ft.
 dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft.
 high, N. of cor.
 71.00 Enter dense cedar and pinion timber, bears NW. and SE.
 78.82 The cor. of secs. 19, 20, 29, and 30.
 Land, rolling and broken; drains S. and N.
 Soil, disintegrated sandstone and blue clay, 12 chs.,
 light sandy loam with red clay subsoil on top of mesa.
 Timber, scrub cedar and pinion.
 Good grazing on top of mesa.

 N. $0^{\circ} 3'$ W., bet. secs. 19 and 20.

26.

Subdivision of T. 39 N., R. 5 W.

Chains	Asc. gradually over rolling land, through dense cedar and pinion.
9.00	Low spur, projecting NW.; desc. gradually.
20.00	Leave dense cedar and pinion, bears E. and W.; enter open land.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground, to bedrock, surrounded by a mound of earth and stone, for $\frac{1}{4}$ sec. cor., marked on brass cap 1914 on S. rim; $\frac{1}{4}$ in N., S20 in E., and S19 in W. half; from which A cedar, 6 ins. diam., bears N. 5° W., 110 lks. dist., marked $\frac{1}{4}$ S19BT. No other trees available for bearing trees. Dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the cor. of secs. 17, 18, 19, and 20, marked on brass cap 1914 on S. rim; T39NR5W in N. half; S18 in NW., S17 in NE., S20 in SE., and S19 in SW. quadrant; dig pits, 18x18x12 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, rolling; drains NW. Soil, light sandy loam, of fine texture, with hard red clay subsoil, with bedrock close to surface. Timber, scrub cedar and pinion. Undergrowth, yellowtop and grass. Good grazing.
40.00	N. $89^{\circ} 59'$ E., on a random line, bet. secs. 17 and 20. Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect the N. and S. line, 9 lks. N. of the cor. of secs. 16, 17, 20, and 21. Thence I run N. $89^{\circ} 57'$ W., on a true line, bet. secs. 17 and 20. Asc. over broken land, through cedar and pinion timber.
3.00	Start abrupt ascent, bears NE. and SW.
7.00	Point of mesa and rim, 15 ft. high, projecting NE., 100 ft. above sec. cor.; desc. abruptly.
15.00	Canyon wash, 20 lks. wide, 75 ft. below point, drains NE.; asc. abruptly.
22.50	Rim on W. side of canyon, 20 ft. high, 100 ft. above bottom, bears N. 70° E. and S. 70° W.; desc. gradually.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground, to bedrock, surrounded by a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap 1914 on S. rim; S17 in N., S20 in S., and $\frac{1}{4}$ in W. half; from which A cedar, 14 ins. diam., bears N. $40^{\circ} 45'$ E., 26 lks. dist., marked $\frac{1}{4}$ S17BT. A cedar, 16 ins. diam., bears S. $16^{\circ} 30'$ W., 7 lks. dist., marked $\frac{1}{4}$ S20BT. This cor. is established 50 ft. below top of rim. September 25, 1914: At this cor., I set off $0^{\circ} 44'$ S. on the decl. arc; and, at apparent noon, observe the sun on the meridian; the resulting lat. is $36^{\circ} 46'$ N.
42.00	Canyon wash, 20 lks. wide, drains NE.; asc. gradually.
56.00	Spring of clear cool water bears NE. about 12 chs.
56.00	Top of ascent, 50 ft. above wash, bears N. and S.; desc. gradually.
57.00	Leave dense cedar and pinion; enter open land, bears N.

Chains 80.00	80° W. and SW. The cor. of secs. 17, 18, 19, and 20, 50 ft. below top of ascent. Land, rolling and broken; drains NE. Soil, light red sandy loam, clay, gravel, and rocks. Subsoil, light red sandy loam and clay, 25 chs.; bedrock, 55 chs. Timber, dense scrub cedar and pinion. Undergrowth, some yellowtop and greasewood. Good grazing, 30 chs.
40.00 78.73	N. 89° 58' W., on a random line, bet. secs. 18 and 19. Set temp. $\frac{1}{4}$ sec. cor. Intersect the W. bdy. of the T., 5 lks. N. of the cor. of secs. 13, 18, 19, and 24. Thence I run East, on a true line, bet. secs. 18 and 19. Over rolling land, through scattered cedar and pinion; desc. gradually.
30.00 38.73	Hollow, drains N. 35° W.; asc. gradually. Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground, to bedrock, surrounded by a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap 1914 on S. rim; S18 in N., S19 in S., and $\frac{1}{4}$ in W. half; from which A cedar, 16 ins. diam., bears N. 34° E., 164 lks. dist., marked $\frac{1}{4}$ S18BT. A cedar, 18 ins. diam., bears S. 75° E., 198 lks. dist., marked $\frac{1}{4}$ S19BT.
50.00 54.00	Continue gradual ascent. Top of ascent, bears N. and S.; desc. gradually. Leave cedar and pinion timber, bears NW. and SE.; enter open land.
70.00 78.73	Hollow, drains N. 35° W.; asc. gradually. The cor. of secs. 17, 18, 19, and 20. Land, rolling; drains NW. Soil, light sandy loam and gravel; subsoil, sandstone bedrock. Timber, scattered cedar and pinion. Undergrowth, scattered yellowtop and greasewood. Good grazing.
10.00 35.25 40.00	N. 0° 3' W., bet. secs. 17 and 18. Desc. gradually over rolling land, through yellowtop. Leave open land, bears E. and NW.; enter scattered scrub cedar and pinion timber. Stake and rider fence, bears E. and W.; enter dense cedar and pinion timber. Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground, to bedrock, surrounded by a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap 1914 on S. rim; $\frac{1}{4}$ in N., S17 in E., and S18 in W. half; from which A cedar, 12 ins. diam., bears S. 37° E., 30 lks. dist. marked $\frac{1}{4}$ S17BT. A cedar, 10 ins. diam., bears S. 51° 30' W., 34 lks. dist., marked $\frac{1}{4}$ S18BT.
75.25 80.00	Head of canyon, draining NE., bears E., 10 chs. dist. Old brush fence, bears N. 80° and S. 80° W. Set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the ground, to bedrock, surrounded by a mound of stone, for the cor. of secs. 7, 8, 17, and 18, marked on brass cap 1914 on S. rim; T39NR5W in N. half;

28.

Subdivision of T. 39 N., R. 5 W.

Chains

S7 in NW.,
S8 in NE.,
S17 in SE., and
S18 in SW. quadrant; from which

A cedar, 8 ins. diam., bears N. 59° E., 32 lks. dist.,
marked T39NR5WS8BT.

A cedar, 9 ins. diam., bears S. 42° 30' E., 25 lks.
dist., marked T39NR5WS17BT.

A pinion, 10 ins. diam., bears S. 25° W., 83 lks.
dist., marked T39NR5WS18BT.

A cedar, 7 ins. diam., bears N. 41° 30' W., 56 lks.
dist., marked T39NR5WS7BT.

Land, rolling and broken; drains NW.

Soil, light sandy loam, gravelly and rocky; subsoil,
sandstone bedrock.

Timber, scrub cedar and pinion; dense in N. half and
scattering in S. half;

Undergrowth, some yellowtop.

Good grazing.

September 25, 1914.

September 26, 1914: I set off 36° 47' N.
on the lat. arc; 1° 3' S. on the decl. arc; and, at
7h 52m a. m., 1. m. t., determine a meridian with the
solar.

Thence I run

S. 89° 57' E., on a random line, bet. secs. 8 and 17.

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

80.01 Intersect the N. and S. line, 10 lks. N. of the cor. of
secs. 8, 9, 16, and 17.

Thence I run

N. 89° 53' W., on a true line, bet. secs. 8 and 17.

Over broken land, through scattering cedar and pinion.

0.75 Wash, 10 lks. wide, 3 ft. deep; drains NW.

4.50 Main canyon wash, 35 lks. wide, 3 ft. deep; drains NW.
Wash from the SW. intersects the main canyon wash 9
chs. NW.; continue over canyon bottom.

15.00 W. edge of canyon bottom, bears NE. and SW.; asc. abrupt-
ly over rocky slope of canyon.

20.00 Top of Cedar ridge, and rim, 15 ft. high, 120 ft. above
bottom of canyon, bears N. 15° E. and SW.; desc. grad-
ually over rolling land, through dense cedar and pin-
ion.

40.00 $\frac{1}{2}$ Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
1914 on S. rim;

S8 in N.,

S17 in S. and

$\frac{1}{4}$ in W. half; from which

A cedar, 12 ins. diam., bears N. 83° E., 123 lks. dist.,
marked $\frac{1}{4}$ S8BT.

A cedar, 8 ins. diam., bears S. 16° W., 130 lks. dist.,
marked $\frac{1}{4}$ S17BT.

54.60 E. edge of canyon and ledge, 20 ft. high, bears N. and
SW.; desc. abruptly.

55.50 Wash, in bottom of canyon, 60 ft. below top; drains N.
Continue across canyon bottom.

61.50 Wash, in bottom of canyon, 20 lks. wide, 3 ft. deep; drains
NE.

67.75 Wash, in bottom of canyon, 15 lks. wide, 3 ft. deep,
drains NE; asc. abruptly.

73.50 Top of rim of canyon, 15 ft. high, 75 ft. above bottom,
bears NE. and SW.; desc. gradually.

80.01 The cor. of secs. 7, 8, 17, and 18.

Land, broken; drains NE.

Soil, light sandy loam with red clay subsoil in canyon
bottoms, coarse gravel and rocky on mesa and canyon
slopes.

Timber, cedar and pinion.

Undergrowth, greasewood.

Good grazing.

Chains	West, on a random line, bet. secs. 7 and 18.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
78.70	Intersect the W. bdy. of the T., 9 lks. S. of the cor. of secs. 7, 12, 13, and 18.
	Thence I run
	S. $89^{\circ} 56'$ E., on a true line, bet. secs. 7 and 18.
	Desc. gradually over rolling land, through scattered cedar and pinion.
15.00	Bottom of gradual descent, hollow draining N.; asc. gradually.
38.70	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
	1914 on S. rim;
	S7 in N.,
	S18 in S., and
	$\frac{1}{4}$ in W. half; from which
	A cedar, 18 ins. diam., bears N. $74^{\circ} 30'$ E., 132 lks. dist., marked $\frac{1}{4}$ S7BT.
	A cedar, 10 ins. diam., bears S. 48° E., 325 lks. dist., marked $\frac{1}{4}$ S18BT.
	Continue gradual ascent.
50.75	Top of ascent, bears NW. and SE.; desc. gradually.
74.00	Bottom of gradual descent, drains N.; asc. gradually.
78.70	The cor. of secs. 7, 8, 17, and 18.
	Land, rolling; drains N.
	Soil, light red sandy loam, of medium texture, on subsoil of hard red clay and rock.
	Timber, scattering cedar and pinion.
	Undergrowth, yellowtop and grass.
	Good grazing.

	N. $0^{\circ} 3'$ W., bet. secs. 7 and 8.
	Desc. gradually over rolling land, through dense cedar and pinion.
20.00	Leave dense timber; enter scattering timber, bears 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
	1914 on S. rim;
	$\frac{1}{4}$ in N.,
	S8 in E., and
	S7 in W. half; from which
	A cedar, 12 ins. diam., bears S. 60° E., 83 lks. dist., marked $\frac{1}{4}$ S8BT.
	A cedar, 9 ins. diam., bears S. $27^{\circ} 30'$ W., 81 lks. dist., marked $\frac{1}{4}$ S7BT.
	September 26, 1914: At this cor., I set off $1^{\circ} 7'$ S. on the decl. arc; and, at apparent noon, observe the sun on the meridian; the resulting lat. is $36^{\circ} 48'$ N.
53.00	Leave scattering timber; enter open rolling land, bears N. 20° E. and SW.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the cor. of secs. 5, 6, 7, and 8, marked on brass cap
	1914 on S. rim;
	T39NR5W in N. half;
	S6 in NW.,
	S5 in NE.,
	S8 in SE., and
	S7 in SW. quadrant; dig pits, 18x18x12 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, rolling; drains NW.
	Soil, light red sandy loam and gravel. Subsoil, light red sandy loam and clay.
	Timber, scrub cedar and pinion, 55 chs.
	Undergrowth, scattering greasewood and grass.
	Good grazing.

30. Subdivision of T. 39 N., R. 5 W.

- Chains S. 89° 53' E., on a random line, bet. secs. 5 and 8.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.08 Intersect the N. and S. line, 3 lks. S. of the cor. of
 secs. 4, 5, 8, and 9.
 Thence I run
 N. 89° 54' W., on a true line, bet. secs. 5 and 8.
 Desc. gradually over rolling land, through scattering
 scrub cedar and pinion.
 3.00 Old corral on line.
 31.50 Wash, in hollow, 20 lks. wide, 3 ft. deep, drains N. 35°
 E.; asc. gradually.
 40.04 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
 1914 on S. rim;
 S5 in N.,
 S8 in S., and
 $\frac{1}{4}$ in W. half;
 dig pits, 18x18x12 ins., E. and W. of post, 3 ft.
 dist.; and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft.
 high, N. of cor. Trees too small for bearing trees.
 80.08 The cor. of secs. 5, 6, 7, and 8.
 Land, rolling; drains NE.
 Soil, light red sandy loam, clay, and gravel; subsoil,
 red sandy loam and clay.
 Timber, scattering scrub cedar and pinion.
 Undergrowth, yellowtop and grass.
 Good grazing.
-
- N. 89° 56' W., on a random line, bet. secs. 6 and 7.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 78.60 Intersect the W. bdy. of the T., 2 lks. N. of the cor. of
 secs. 1, 6, 7, and 12.
 Thence I run
 S. 89° 57' E., on a true line, bet. secs. 6 and 7.
 Desc. gradually over rolling land, through greasewood and
 grass.
 38.60 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
 1914 on S. rim;
 S6 in N.,
 S7 in S., and
 $\frac{1}{4}$ in W. half; from which
 A cedar, 6 ins. diam., bears N. 89° E., 46 lks. dist.,
 marked $\frac{1}{4}$ S6BT.
 No bearing tree available in the other section.
 Dig pits, 18x18x12 ins., E. and W. of post, 3 ft.
 dist.; and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft.
 high, N. of cor.
 72.25 Wash, 30 lks. wide, 4 ft. deep, drains N., asc. gradually.
 78.60 The cor. of secs. 5, 6, 7, and 8.
 Land, rolling; drains NE.
 Soil, light red sandy loam, clay, and gravel. Subsoil,
 light red sandy loam, clay, and disintegrated lime-
 stone.
 Undergrowth, scattered greasewood and grass.
 Timber, scattering scrub cedar and pinion.
 Good grazing.
-
- N. 0° 3' W., on a random line, bet. secs. 5 and 6.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.00 Intersect the N. bdy. of the T., 26 lks. W. of the cor.
 of secs. 5, 6, 31, and 32.
 Thence I run
 S. 0° 8' W., on a true line, bet. secs. 5 and 6.
 Asc. gradually over rolling land, through greasewood and
 grass.
 26.25 Wash, 30 lks. wide, 4 ft. deep; drains N. 20° 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

66.25
80.00

1914 on S. rim;
 $\frac{1}{2}$ in N.,
 S5 in E., and
 S6 in W. half;
 dig pits, 18x18x12 ins., N. and S. of post, 3 ft.
 dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft.
 high, W. of cor. No trees near.
 Wash, 30 lks. wide, 4 ft. deep, drains NE.
 The cor. of secs. 5, 6, 7, and 8.
 Land, rolling; drains NE.
 Soil, light red sandy loam, clay, and gravel; subsoil,
 red sandy loam, clay.
 Timber, a few cedars along washes.
 Undergrowth, grass and scattering greasewood.
 Good grazing.

September 26, 1914.

GENERAL DESCRIPTION.

The land embraced in this township is mostly rolling, except along the edge of what is known as Cedar ridge, and the canyons in secs. 8, 9, 16, 17, 20, and 21, which is broken. The general drainage is to the East. The soil is light sandy loam of medium texture, from 3 to 6 ft. deep, on subsoil of hard red clay. The soil on top of Cedar ridge is light red sandy loam, with bedrock close to surface, with coarse gravel and rocky soil near the S. and E. edges of the mesa. Cedar knoll is in secs. 27 and 34. It is a knoll that can be seen for miles, especially from the NE. The only water found in the township was a small spring in the bottom of the canyon in sec. 17, which has been developed by tunneling into the sandstone on the W. side of the canyon. The water is clear and cool and slightly alkaline. It runs very slowly. The land affords good grazing for cattle and sheep. There are no settlers in the township. I found no indications of mineral or oil.

Joseph B. Thomas
 U. S. Surveyor.

FOR FINAL OATH OF UNITED STATES SURVEYOR.

See Book "A"

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 Feb. 15, 1916

The foregoing field notes of the survey of *the*
Subdivision lines of
Township 39 North, Range 5 West
of the Gila and Salt River Base and Meridian
in the State of Arizona

executed by *Jos. C. Thoma, U.S. Surveyor*
 under his special instructions dated *March 11, 1913 for Group 29*, ~~191~~ _____, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank P. Bost
 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.~~

U. S. Surveyor General.