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BOOK "F"

BOOK 2860

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION LINES

of

T. 40 N., R. 4 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 August 20, 1914,

Survey completed September 2, 1914.

Book "F"

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Subdivision of T. 40 N., R. 4 W.

1.

Chains Survey commenced August 20, 1914, and executed with Young and Son's light mountain transit No. 8535, equipped with Smith Solar Attachment. For description of instrument, see page 1, Book "B." For test of instrument, see page 58, Book "A."

 August 20, 1914: At the cor. of secs. 1, 2, 35, and 36, Ts. 39 and 40 N., R. 4 W., I set off 36° 49' N. on the lat. arc; 12° 36' N. on the decl. arc; and, at 9h 3m a. m., 1. m. t., determine a meridian with the solar.

Thence I run
 N. 0° 1' W., bet. secs. 35 and 36.
 Over rolling land, cut by small washes, draining SE.
 39.00 Blue clay ridge, 30 ft. above surrounding land, bears NE. and W.

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, 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.

70.00 Wash, 10 lks wide, 2 ft. deep; course, SE.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the cor. of secs. 25, 26, 35, and 36, marked on brass cap
 1914 on S. rim;
 T40NR4W in N. half;
 S26 in NW.,
 S25 in NE.,
 S36 in SE., and
 S35 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, hilly, and level; drains SE.
 Soil, light red sandy loam and adobe, with disintegrated shale. Subsoil, bedrock and red sandy loam mixed with disintegrated shale.
 Undergrowth, shad scale and yellowtop.
 No timber.
 Fair grazing.

 S. 89° 58' E., on a random line, bet. secs. 25 and 36.
 40.00 Set temp. 1/4 sec. cor.
 80.12 Intersect the E. bdy. of the T., 5 lks. S. of the cor. of secs. 25, 30, 31, and 36.

Thence I run
 West, on a true line, bet. secs. 25 and 36.
 Over rolling land, through shad scale undergrowth.
 15.00 Spur, 30 ft. high, projecting SE.; continue over broken land.

40.06 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;
 S25 in N.,
 S36 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.

Continue over light red sandy loam, through sage brush and yellowtop.

50.00 Draw, 15 lks. wide, 10 ft. deep; course, SE.
 80.12 The cor. of secs. 25, 26, 35, and 36.
 Land, rolling and broken; drains SE.
 Soil, light red sandy loam, of medium texture, and blue

2.

Subdivisions of T. 40 N., R. 4 W.

Chains	<p>clay; subsoil, dark clay. No timber. Undergrowth, yellowtop, shad scale, and sage brush. Fair grazing.</p> <p>-----</p> <p>August 20, 1914: I set off 12° 33' N. on the decl. arc; and, at apparent noon, observe the sun on the meridian; the resulting lat. is 36° 50' N. Thence I run N. 0° 1' W., bet. secs. 25 and 26. Over rolling land, through yellowtop and sagebrush. 29.50 Draw, 12 lks. wide, 8 ft. deep; course 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. 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; T40NR4W in N. half; S23 in NW., S24 in NE., S25 in SE., and S26 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, gently rolling. Soil, light red sandy loam, of fine texture, with coarse red sandy subsoil. Undergrowth, yellowtop and sagebrush. No timber. Good grazing.</p> <p>-----</p> <p>40.00 East, on a random line, bet. secs. 24 and 25. Set temp. $\frac{1}{4}$ sec. cor. 80.16 Intersect the E. bdy. of the T., 2 lks. S. of the cor. of secs. 19, 24, 25, and 30. Thence I run S89° 59' W., on a true line, bet. secs. 24 and 25. Over rolling land, draining SE., through sagebrush and yellowtop. 40.08 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap 1914 on S. rim; S24 in N., S25 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. 80.16 The cor. of secs. 23, 24, 25, and 26. Land, gently rolling. Soil, light red sandy loam, of fine texture, with coarse red sandy subsoil. Undergrowth, yellowtop and sagebrush. No timber. Good grazing.</p> <p>-----</p> <p>N. 0° 1' W., bet. secs. 23 and 24. Over rolling land, through shad scale and yellowtop un-</p>
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Subdivision of T. 40 N., R. 4 W.

Chains
 24.00 dergrowth.
 40.00 Two Mile wash, 30 lks. wide, 30 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.,
 S24 in E., and
 S23 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.
 44.00 Draw, 60 lks. wide, 20 ft. deep; drains SE.
 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;
 T40NR4W in N. half;
 S14 in NW.,
 S13 in NE.,
 S24 in SE., and
 S23 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.
 Soil, light red sandy loam and outcroppings of disintegrated shale and patches of clay; subsoil, red sandy loam and disintegrated shale and clay.
 Undergrowth, shad scale, yellowtop, and sagebrush.
 Good grazing.
 No timber.

August 20, 1914.

 August 21, 1914: I set off $36^{\circ} 51' 30''$ N. on the lat. arc; $12^{\circ} 17'$ N. on the decl. arc; and, at 8h 3m a. m., 1. m. t., determine a meridian with the solar.

Thence I run
 N. $89^{\circ} 59'$ E., on a random line, bet. secs. 13 and 24.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.14 Intersect the E. bdy. of the T., 2 lks. S. of the cor. of secs. 13, 18, 19, and 24.

Thence I run
 S. $89^{\circ} 58'$ W., on a true line, bet. secs. 13 and 24.
 Over rolling land, cut by numerous small washes, draining S., through shad scale and yellowtop.

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

76.40 Wash, 30 lks. wide, 3 ft. deep, drains S.
 80.14 The cor. of secs. 13, 14, 23, and 24.
 Land, rolling and gullied by numerous small washes draining S.
 Soil and subsoil, light blue clay.
 Undergrowth, shad scale and yellowtop.
 Fair grazing.
 No timber.

 N. $0^{\circ} 1'$ W., bet. secs. 13 and 14.
 Asc. gradually over rolling broken 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;

4. Subdivision of T. 40 N., R. 4 W.

Chains	<p>$\frac{1}{2}$ in N., and 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. Continue over broken bad lands, draining SW. Wash, 15 lks. wide, 3 ft. deep; course, SW. 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; T40NR4W 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 ; S. half drains SE., N. half drains SW.; broken and rolling. Soil, gumbo and light clay on subsoil of clay and gumbo. Undergrowth, shad scale. Fair grazing. No timber.</p>
79.50 80.00	
40.00 80.14	<p>N. $89^{\circ} 58'$ E., on a random line, bet. secs. 12 and 13. Set temp. $\frac{1}{4}$ sec. cor. Intersect the E. bdy. of the T., 9 lks. S. of the cor. of secs. 7, 12, 13, and 18. Thence I run S. $89^{\circ} 54'$ W., on a true line, bet. secs. 12 and 13. Asc. gradually over broken bad land, draining SE. 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; S12 in N., S13 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. Continue gradual ascent. Top of ascent, bears N. and S.; desc. gradually; land drains SW. Wash, 15 lks. wide, 3 ft. deep; drains SW.; asc. gradual- ly. The cor. of secs. 11, 12, 13, and 14. Land, broken and bad; drains SE. for fifty chains and SW. for 30 chs. Soil, disintegrated shale and gypsum. Subsoil of same. Undergrowth, scattered sagebrush, shad scale, and grease- wood and yellowtop. Poor grazing. No timber.</p>
40.07	
50.00	
79.60	
80,14	
14.00 34.25 40.00	<p>August 21, 1914: I set off $12^{\circ} 14'$ N. on the decl. arc; and, at apparent noon, observe the sun on the meridian; the resulting lat. is $36^{\circ} 52'$ N. Thence I run N. $0^{\circ} 1'$ W., bet. secs. 11 and 12. Asc. gradually over broken bad lands, draining SW. S. edge of broken bench, bears E. and W., 30 ft. high. Road, Fredonia to Pipe Springs, bears N. 75° E. and S. 75° W. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap 1914 on S. rim; $\frac{1}{2}$ in N.,</p>

Subdivision of T. 40 N., R. 4 W.

Chains

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, 3 1/2 ft. base, 1 1/2 ft. high,
W. of cor.

60.00 Top of ascent, bears NW. and SE.; desc. gradually.
75.00 Road to Moccasin, bears N. 60° W. and S. 60° E.
75.50 Draw, 8 lks. wide, 8 ft. deep; drains NE.
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;
T40NR4W in N. half;
S2 in NW.,
S1 in NE.,
S12 in SE., and
S11 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, broken and bad; drains SW. and NE.
Soil, blue clay, shale, and gypsum; subsoil, blue clay,
disintegrated shale, and gypsum.
Undergrowth, yellowtop and scattering sagebrush and shad
scale.
Poor grazing.
No timber.



40.00 N. 89° 54' E., on a random line, bet. secs. 1 and 12.
Set temp. 1/4 sec. cor.
80.10 Intersect the E. bdy. of the T., 17 lks. N. of the cor.
of secs. 1, 6, 7, and 12.
Thence I run
N. 89° 59' W., on a true line, bet. secs. 1 and 12.
Over broken bad lands, through yellowtop and short sage.
2.00 Enter wash, 30 lks. wide, 6 ft. deep, drains N. 60° E.;
continue up wash.
22.00 Leave wash, draining from the NW.
40.05 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;
S1 in N.,
S12 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.
Continue over rough broken bad lands, cut by numerous
small washes, draining SE. into large wash about 5 chs.
S. of line.
80.10 The cor. of secs. 1, 2, 11, and 12.
Land, broken and bad; drains SE.
Soil, gravel and light, hard clay; subsoil, clay and dis-
integrated shale and gypsum.
Undergrowth, yellowtop and scattering sage and greasewood.
No timber.
Poor grazing.



35.00 N. 0° 1' W., bet. secs. 1 and 2.
Asc. gradually over broken rolling land.
Base of mesa, bears E. and W.; asc. abruptly over broken
rocky S. slope.
39.00 Top of mesa, and rim, 40 ft. high, 200 ft. above base,
bears E. and W.; enter dense cedar and pinion timber.
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 1/4 sec. cor., marked on brass cap
1914 on S. rim;
1/4 in N.,

6.

Subdivision of T. 40 N., R. 4 W.

Chains	<p>S1 in E., and S2 in W. half; from which A pinion, 8 ins. diam., bears N. 4° 14' E., 69 lks. dist., marked $\frac{1}{4}$S1BT. A pinion, 6 ins. diam., bears S. 88° 45' W., 18 lks. dist., marked $\frac{1}{4}$S2BT. Continue over rolling mesa top. 50.00 Top of rocky spur, projecting NE. 57.00 Desc. gradually over broken hillside. 73.81 Intersect the 10th Standard Parallel North, 6.81 chs. E. of std. cor. of secs. 35 and 36, T. 41 N., R. 4 W. At point of intersection I Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground, surrounded by a mound of stone, for clos- ing cor. of secs. 1 and 2, marked on brass cap T41NR4W S35 : S36 ----- C : C S2 : S1 T40N 1914 and raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor. Pits impracticable. Trees available are too scrubby for bearing trees. Land, rolling, broken, and mountainous. Soil, 35 chs., blue clay; 45 chs., coarse gravel and rocks. Undergrowth, shad scale. Timber, scattering scrub cedar and pinion. Good grazing. August 21, 1914.</p> <p>-----</p> <p>August 22, 1914: At the cor. of secs. 2, 3, 34, and 35, Ts. 39 and 40 N., R. 4 W., I set off 36° 49' N. on the lat. arc; 11° 59' N. on the decl. arc; and, at 7h 3m. 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 rolling land, draining E. 39.00 Enter broken blue clay hills, bear 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., S35 in E., and S34 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. 45.00 Wash, 30 lks. wide, 5 ft. deep, drains SE.; leave clay hills. 70.00 Road, bears N. 15° W. and S. 15° E. 80.00 Set an iron post, 3ft. 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; T40NR4W 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.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, rolling and broken. Soil, light red sandy loam, of medium texture, and blue clay. Subsoil, coarse gravel and hard clay. Undergrowth, shad scale and yellowtop. Poor grazing. No timber.</p> <p>-----</p>
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Subdivision of T. 40 N., R. 4 W.

Chains S. 89° 58' E., on a random line, bet. secs. 26 and 35.
 40.00 Set temp. ¼ sec. cor.
 79.99 Intersect the N. and S. line, 4 lks. N. of the cor. of
 secs. 25, 26, 35, and 36.
 Thence I run
 N. 89° 56' W., on a true line, bet. secs. 26 and 35.
 Over gently rolling land, draining S.
 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;
 S26 in N.,
 S35 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.
 79.99 The cor. of secs. 26, 27, 34, and 35.
 Land, gently rolling and level.
 Soil, light red sandy loam and clay; subsoil, red sandy
 loam and clay.
 Undergrowth, shad scale and yellowtop.
 Fair grazing.
 No timber.

 N. 0° 1' W., bet. secs. 26 and 27.
 Asc. gradually over gently rolling land.
 30.00 Wash, 30 lks. wide, 3 ft. deep; drains 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.,
 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, 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. 22, 23, 26, and 27,
 marked on brass cap
 1914 on S. rim;
 T40NR4W in N. half;
 S22 in NW.,
 S23 in NE.,
 S26 in SE., and
 S27 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 SW.
 Soil, light red sandy loam; subsoil, red sandy loam.
 Undergrowth, shad scale and yellowtop.
 Fair grazing.
 No timber.

 S. 89° 56' E., on a random line, bet. secs. 23 and 26.
 40.00 Set temp. ¼ sec. cor.
 79.92 Intersect the N. and S. line, 5 lks. N. of the cor. of
 secs. 23, 24, 25, and 26.
 Thence I run
 N. 89° 54' W., on a true line, bet. secs. 23 and 26.
 Over gently rolling land, draining SE.
 5.00 Base of knoll, bears N. and S.; asc.
 10.00 Top of knoll, 20 ft. above base; desc.
 15.00 Base of knoll, bears N. and S.; continue over rolling
 land.
 39.96 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;
 S23 in N.,

8.

Subdivision of T. 40 N., R. 4 W.

Chains	S26 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.
79.92	The cor. of secs. 22, 23, 26, and 27. Land, gently rolling and hilly; drains SE. Soil, sandy and mixed with clay. Undergrowth, yellowtop and scattering sage. Fair grazing. No timber.

40.00	August 22, 1914: I set off $11^{\circ} 54'$ N. on the decl. arc; and, at apparent noon, observe the sun on the meridian; the resulting lat. is $36^{\circ} 51'$ N. Thence I run N. $0^{\circ} 1'$ W., bet. secs. 22 and 23. Over gently rolling land, draining E.; asc. gradually. 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, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
56.00	Road, bears N. 20° E. and S. 20° W.
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; T40NR4W in N. half; S15 in NW., S14 in NE., S23 in SE., and 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, gently rolling; drains SE. Soil, light red sandy loam on subsoil of red sandy loam. Undergrowth, yellowtop and shad scale. Fair grazing. No timber.

40.00	S. $89^{\circ} 54'$ E., on a random line, bet. secs. 14 and 23. Set temp. $\frac{1}{4}$ sec. cor.
79.99	Intersect the N. and S. line, 2 lks. S. of the cor. of secs. 13, 14, 23, and 24. Thence I run N. $89^{\circ} 55'$ W., on a true line, bet. secs. 14 and 23. Over gently rolling land, draining SE.
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; S14 in N., S23 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.
52.30	N. bank of Two Mile Seep, 30 ft. high, bears N. 35° W. and S. 35° E.
57.30	S. bank of Two Mile Seep, 30 ft. high, bears N. 35° W. and S. 35° E.
75.00	Road, bears N. 20° E. and S. 20° W.
79.99	The cor. of secs. 14, 15, 22, and 23. Land, gently rolling; drains SE.

Subdivision of T. 40 N., R. 4 W.

Chains Soil, disintegrated shale and outcropping rocks; subsoil, rock and disintegrated shale.
 Undergrowth, shad scale.
 Fair grazing.
 No timber.

N. 0° 1' W., bet. secs. 14 and 15.
 Over rolling land, through shad scale undergrowth.
 14.70 Wash, 60 lks. wide, 10 ft. deep; drains SE.
 35.00 Road, bears N. 15° W. and S. 15° 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.,
 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, 4 ft. base, 2 ft. high, W. of cor.
 74.80 S. bank of Two Mile Seep, 25 ft. high, bears N. 35° W. and S. 35° E.
 80.00 Point for cor. falls in Two Mile Seep; impracticable to set cor. Small stream of poor water.
 82.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for witness cor. to cor. of secs. 10, 11, 14, and 15, marked on brass cap
 1914 on S. rim;
 T40NR4W in N. half;
 WC N. of center;
 S10 in NW.,
 S11 in NE.,
 S14 in SE., and
 S15 in SW. quadrant;
 dig pits, 18x18x12 ins., NE., SE., SW., and NW. of post, 5 $\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of W. C.
 Land, gently rolling; drains SE.
 Soil and subsoil, red sandy loam.
 Undergrowth, shad scale and some greasewood and yellowtop.
 Good grazing.
 No timber.

From true point for cor. of secs. 10, 11, 14, and 15, I run
 run
 S. 89° 55' E., on a random line, bet. secs. 11 and 14.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.96 Intersect the N. and S. line, 5 lks. S. of the cor. of secs. 11, 12, 13, and 14.
 Thence I run
 N. 89° 57' W., on a true line, bet. secs. 11 and 14.
 Over rolling land, draining SW., through yellowtop and shad scale.
 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;
 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.
 77.50 E. bank of Two Mile Seep, bears N. 35° W. and S. 35° E.
 79.96 True point for cor. of secs. 10, 11, 14, and 15.
 Land, rolling; drains SW.
 Soil and subsoil, red sandy loam.
 Undergrowth, shad scale, yellowtop, and some greasewood.
 Good grazing.
 No timber.

August 22, 1914.

10.

Subdivision of T. 40 N., R. 4 W.

Chains	<p>August 27, 1914: At the true point for the cor. of secs. 10, 11, 14, and 15, I set off $36^{\circ} 52'$ N. on the lat. arc; $10^{\circ} 15'$ N. on the decl. arc; and, at 8h 2m a. m., l. m. t., determine a meridian with the solar.</p> <p>Thence I run N. $0^{\circ} 1'$ W., between secs. 10 and 11. Ascending gradually over rolling land, through greasewood and yellowtop.</p> <p>2.00 W. C. to cor. of secs. 10, 11, 14, and 15.</p> <p>5.00 Road, Pipe Springs and Fredonia, bears S. 60° W. and S. 80° E. E. bank of Two Mile Seep, bears N. 35° W. and S. 35° E.</p> <p>5.25 Wire fence, bears N. 70° E., and S. 70° W.; enter cultivated field.</p> <p>25.00 Leave cultivated field, bears E. and W.</p> <p>35.00 Small reservoir on line.</p> <p>39.00 Corral on line.</p> <p>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, $18 \times 18 \times 12$ 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. Cor. is set in corral. Two Mile ranch house, 15×15 ft., 1 door and 2 windows, constructed of boards, bears N. $24^{\circ} 50'$ W.</p> <p>41.80 N. side of corral.</p> <p>51.50 Wire fence, bears N. 30° E. and S. 30° W.</p> <p>56.00 Same fence, bears N. 70° E. and S. 70° W.; continue over small washes, draining SW.</p> <p>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; T40NR4W in N. half; S3 in NW., S2 in NE., S11 in SE., and S10 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. Two Mile ranch house, bears S. $5^{\circ} 4'$ W. Land, rolling; drains SW. Soil, light red sandy loam, 60 chs; gravel, disintegrated limestone, and light clay, 20 chs. Subsoil, same. Undergrowth, shad scale and yellowtop, with scattering greasewood. Good grazing. No timber.</p> <hr/> <p>40.00 S. $89^{\circ} 57'$ E., on a random line, bet. secs. 2 and 11. Set temp. $\frac{1}{4}$ sec. cor.</p> <p>80.02 Intersect the N. and S. line, 2 lks. S. of the cor. of secs. 1, 2, 11, and 12. Thence I run N. $89^{\circ} 58'$ W., on a true line, bet. secs. 2 and 11. Over broken lands at foot of mesa.</p> <p>20.00 Top of ascent, bears N. and S.; desc. gradually.</p> <p>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; S2 in N., S11 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.</p>
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Chains

68.50

Wire fence, bears N. and S.

80.02

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

Land, rolling and broken.
Soil, light sandy loam of medium texture and blue clay.
Undergrowth, greasewood and yellowtop.
No timber.
Fair grazing.

N. 0° 1' W., bet. secs. 2 and 3.

Asc. gradually over broken foothills of mesa, through shad scale.

5.00

Wire fence, bears N. 70° E. and S. 70° W.

15.00

Base of mesa, bears NW. and N. 70° E.; asc. abruptly.

27.00

Edge of mesa rim, 50 ft. high, 300 ft. above bottom, bears N. 35° W. and E.; enter dense scrub cedar and pinion; desc. gradually over broken mesa top.

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.,

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. Trees too small for bearing trees.

August 27, 1914: At this cor., I set off 10° 11' N. on the decl. arc; and, at apparent noon, observe the sun on the meridian; the resulting lat. is 36° 54' N.

73.70

Intersect the 10th Standard Parallel North, 6.65 chs. E. of the standard cor. of secs. 34 and 35, T. 41 N., R. 4 W. At point of intersection I

Set an iron post, 3 ft. long, 2 ins. diam., 18 ins. in the ground, to bedrock, surrounded by a mound of earth, for the closing corner of secs. 2 and 3, marked on brass cap

1914 on S. rim;

T41NR4WS34S35 in N. half;

CC S. of center;

S2 in SE. and

S3 in SW. quadrant; and

T40N in S. half;

dig pits, 24x18x12 ins., crosswise, on each line, E. and W., 3 ft., and S. of post, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, S. of cor. Trees too small for bearing trees.

Land, rough and broken.

Soil, coarse gravel and stony, with rock close to surface. Timber, scrub cedar and pinion.

Undergrowth, shad scale, 27 chs; sagebrush, 40 chs.

August 27, 1914.

August 24, 1914: At the cor. of secs. 3, 4, 33, and 34, Ts. 39 and 40 N., R. 4 W., I set off 36° 49' N. on the lat. arc; 11° 18' N. on the decl. arc; and, at 7h 17m a. m., 1. m. t., determine a meridian with the solar.

Thence I run

N. 0° 2' W., bet. secs. 33 and 34.

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

10.75

Wash, 20 lks. wide, 3 ft. deep; drains S. 70° W.; 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;

12.

Subdivision of T. 40 N., R. 4 W.

Chains	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.
55.00	Low ridge, bears W. and SE.; continue over rolling land, drains SE.
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; T40NR4W in N. half; S28 in NW., S27 in NE., 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. Soil, light red sandy loam of medium texture, on red clay subsoil. Undergrowth, shad scale, greasewood, and yellowtop. Good grazing.
40.00	S. 89° 58' E., on a random line, bet. secs. 27 and 34. Set temp. ¼ sec. cor.
80.03	Intersect the N. and S. line at the cor. of secs. 26, 27, 34, and 35. Thence I run N. 89° 58' W., on a true line, bet. secs. 27 and 34. Over rolling land, through shad scale.
3.20	Road, bears N. and S.
40.01½	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.
80.03	The cor. of secs. 27, 28, 33, and 34. Land, gently rolling; drains SE. Soil, light red sandy loam and clay; subsoil, red sandy loam and clay. Undergrowth, shad scale. Good grazing. No timber.
40.00	N. 0° 2' W., bet. secs. 27 and 28. Asc. gradually over gently rolling land, through shad scale. 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.
52.00	Wash, 10 lks. wide, 2 ft. deep, drains SE.; enter broken bad lands.
56.50	Wash, 10 lks. wide, 2 ft. deep, drains S. 35° E.
77.00	Base of broken bench, bears NE. and S. 70° W.
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; T40NR4W in N. half;

Chains	<p>S21 in NW., S22 in NE., S27 in SE., and 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. This cor. is established on top of a spur, projecting E. Land, rolling and broken; drains SE. Soil, light red sandy loam, 52 chs.; heavy blue clay and adobe, 28 chs. Undergrowth, shad scale. Fair grazing. No timber.</p>
40.00	S. 89° 58' E., on a random line, bet. secs. 22 and 27.
80.02	Set temp. ¼ sec. cor. Intersect the N. and S. line at the cor. of secs. 22, 23, 26, and 27. Thence I run N. 89° 58' W., on a true line, bet. secs. 22 and 27. Over rolling land, through shad scale.
6.80	Road, bears N. and S.
40.01	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.
62.00	Wash, 40 lks. wide, 5 ft. deep; drains SE.
75.00	Asc. over broken bad lands, bearing NE. and SW.
80.02	The cor. of secs. 21, 22, 27, and 28. Land, rolling and broken; drains SE. Soil, light red sandy loam, blue shale, and gypsum. Undergrowth, shad scale. Fair grazing. No timber.
	<p>August 24, 1914: I set off 11° 13' N. on the decl. arc; and, at apparent noon, observe the sun on the meridian; the resulting lat. is 36° 51' N. Thence I run N. 0° 21' W., bet. secs. 21 and 22. Asc. over broken bad lands, draining SE.</p>
5.50	Wash, 35 lks. wide, 3 ft. deep, drains SE.
25.60	Wash, 10 lks. wide, 3 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; 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.
45.50	Wash, 10 lks. wide, 5 ft. deep, drains SE.
62.40	Edge of broken bench, 30 ft. high, bears NE. and SW.
70.00	N. edge of broken bench, bears NE. and SW.; continue over broken bad lands.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 15, 16, 21, and 22, marked on brass cap 1914 on S. rim; T40NR4W in N. half; S16 in NW., S15 in NE.,

14.

Subdivision of T. 40 N., R. 4 W.

Chains

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, rough and broken; drains SE.
Soil, blue clay.
Undergrowth, shad scale.
Poor grazing.
No timber.

S. 89° 58' E., on a random line, bet. secs. 15 and 22.
40.00 Set temp. ¼ sec. cor.
80.01 Intersect the N. and S. line, 5 lks. S. of the cor. of
secs. 14, 15, 22, and 23.
Thence I run
West, on a true line, bet. secs. 15 and 22,
Over rolling land, through shad scale.
30.00 Enter broken bad lands, bearing N. and SW.
40.00½ 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;
S15 in N.,
S22 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.
40.30 Wash, 30 lks. wide, 6 ft. deep; drains SE.
80.01 The cor. of secs. 15, 16, 21, and 22.
Land, rough and broken; drains SE.
Soil, blue clay.
Undergrowth, shad scale.
Poor grazing.
No timber.

N. 0° 2' W., bet. secs. 15 and 16.
Over broken bad lands, draining SE.; 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.,
S15 in E., and
S16 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.
40.25 Road, Fredonia to Pipe Springs, bears N. 70° E. and S. 70°
W.
50.15 Wire fence, bears NE. and SW.
65.00 Wash, 30 lks. wide, 8 ft. deep; drains SE.
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;
T40NR4W in N. half;
S9 in NW.,
S10 in NE.,
S15 in SE., and
S16 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, rough and broken; drains SE.
Soil, blue clay.
Undergrowth, shad scale.
Poor grazing.
No timber.

Subdivision of T. 40 N., R. 4 W.

Chains East, on a random line, bet. secs. 10 and 15.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.99 Intersect the N. and S. line, 20 lks. N. of the true point
 for the cor. of secs. 10, 11, 14, and 15.
 Thence I run
 N. $89^{\circ} 51'$ W., on a true line, bet. secs. 10 and 15.
 Over rolling land, through shad scale and greasewood.
 2.50 W. bank of Two Mile Seep, 25 ft. high, bears N. 35° W. and
 S. 35° E.
 8.50 Road, Fredonia to Pipe Springs, bears N. 50° E. and S.
 50° W.
 16.00 Wash, 20 lks. wide, 3 ft. deep, drains S.; asc.
 16.50 Wire fence, bears N. 70° E. and S. 70° W.
 32.50 Road, bears N. and S.
 39.99 $\frac{1}{2}$ 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;
 S10 in N.,
 S15 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.
 57.00 Wash, 10 lks. wide, 10 ft. deep, drains S. 35° E.
 68.00 Enter broken bad lands, bears NE. and S.
 79.99 The cor. of secs. 9, 10, 15, and 16.
 Land, rolling and broken; drains SE.
 Soil, light red sandy loam and blue clay; subsoil, dark
 red clay.
 Undergrowth, shad scale and greasewood.
 Good grazing.
 No timber.

August 24, 1914.

August 27, 1914.

N. $0^{\circ} 2'$ W., bet. secs. 9 and 10.
 Over broken bad lands, draining E., 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.,
 S10 in E., and
 S9 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.
 65.25 Road, bears NW. and SE.
 72.70 Fence, bears N. 35° W. and S. 35° 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;
 S4 in NW.,
 S3 in NE.,
 S10 in SE., and
 S9 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, broken; drains E.
 Soil, blue clay and adobe.
 Undergrowth, shad scale.
 Good grazing.
 No timber.

S. $89^{\circ} 51'$ E., on a random line, bet. secs. 3 and 10.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.16 Intersect the N. and S. line, 5 lks. N. of the cor. of
 secs. 2, 3, 10, and 11.

16.

Subdivision of T. 40 N., R. 4 W.

Chains Thence I run
 N. 89° 49' W., on a true line, bet. secs. 3 and 10.
 Desc. gradually over rolling land, through sage and grease-
 wood.
 5.35 Wire fence, bears NE. and SW.
 36.70 Two Mile Seep, 30 lks. wide, 5 ft. deep, drains S.; asc.
 gradually.
 40.08 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
 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.
 80.16 The cor. of secs. 3, 4, 9, and 10.
 Land, rolling; drains S.
 Soil, light red sandy loam; and blue clay, with subsoil
 of red and blue clay.
 Undergrowth, greasewood and sage.
 Good grazing.
 No timber.

August 27, 1914.

 August 28, 1914:
 N. 0° 2' W., on a true line, bet. secs. 3 and 4.
 Desc. gradually, over rolling land, through sage and
 greasewood.

18.00 Wash, 10 lks. wide, 2 ft. deep; drains SE,
 38.00 Two Mile Seep, 75 lks. wide, 10 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.,
 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.
 62.00 Wire fence, bears E. and W.
 64.00 Base of mesa, bears N. 35° W. and SE., 10 chs., thence NE.
 Leave greasewood and sage; enter scrub cedar and pinion
 timber; asc. abruptly over broken rocky slope.
 68.00 Top of ascent, bears E. and W., 125 ft. above bottom;
 thence asc. gradually over broken slope of mesa, cov-
 ered with large boulders.
 73.35 Intersect the Tenth Standard Parallel North, 6.35 chs.
 E. of the standard cor. of secs. 33 and 34, T. 41 N.,
 R. 4 W. At point of intersection, I
 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 closing cor. of secs. 3 and 4, marked on
 brass cap

T41N	Pits impracticable.
S33 : S34	Raise a mound of
R4W -----	stones, 2 ft. base,
C : C	$1\frac{1}{2}$ ft. high, S. of
S4 : S3	cor.
T40N	Trees too small
1914	for bearing trees.

Land, rolling; drains SE.
 Soil and subsoil, light sandy, rocky loam.
 Timber, scattered scrub cedar and pinion, 16 chs.
 Undergrowth, sage and greasewood, 64 chs.
 Fair grazing.

August 28, 1914.

Chains August 25, 1914: At the cor. of secs. 4, 5, 32, and 33, Ts. 39 and 40 N., R. 4 W., I set off 36° 49' N. on the lat. arc; 10° 57' N. on the decl. arc; and, at 7h 32m a. m., l. m. t., determine a meridian with the solar.

Thence I run
N. 0° 3' W., bet. secs. 32 and 33.
Over rolling land, through shad scale undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap
1914 on S. rim;
¼ 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, 3½ ft. base, 1½ ft. high, W. of cor.

76.40 Wash, 35 lks. wide, 6 ft. deep; drains SE.

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;
T40NR4W in N. half;
S29 in NW.,
S28 in NE.,
S33 in SE., and
S32 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, with red clay subsoil.
Undergrowth, shad scale and yellowtop.
Good grazing.
No timber.

40.00 S. 89° 58' E., on a random line, bet. secs. 28 and 33.
Set temp. ¼ sec. cor.

80.03 Intersect the N. and S. line, at the cor. of secs. 27, 28, 33, and 34,
Thence I run
N. 89° 58' W., on a true line, bet. secs. 28 and 33.
Over gently rolling land, through greasewood, shad scale, and yellowtop.

40.01½ 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;
S28 in N.,
S33 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.

80.03 Continue gradual ascent.
The cor. of secs. 28, 29, 32, and 33.
Land, gently rolling; drains SE.
Soil, light red sandy loam, with red clay subsoil.
Undergrowth, shad scale and yellowtop.
Good grazing.
No timber.

40.00 N. 0° 3' W., bet. secs. 28 and 29.
Asc. gradually over rolling land, through shad scale.
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.,
S28 in E., and
S29 in W. half;

18.

Subdivision of T. 40 N., R. 4 W.

Chains	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.
42.00	Enter broken bad lands, bears SE. and SW.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the cor. of secs. 20, 21, 28, and 29, marked on brass cap 1914 on S. rim; T40NR4W in N. half; S20 in NW., S21 in NE., S28 in SE., and S29 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 in S. half; broken and rough in the N. half; drains SE. Soil, light red sandy loam, of medium texture, with red clay subsoil in S. half; blue clay and adobe in the N. half. Undergrowth, yellowtop and shad scale. Fair grazing. No timber.

	August 25, 1914: I set off 10° 52' N. on the decl. arc; and, at apparent noon, observe the sun on the meridian; the resulting lat. is 36° 51' 30" N. Thence I run S. 89° 58' E., on a random line, bet. secs. 21 and 28.
40.00	Set temp. ¼ sec. cor.
80.08	Intersect the N. and S. line, 5 lks. S. of the cor. of secs. 21, 22, 27, and 28. Thence I run West, on a true line, bet. secs. 21 and 28. Asc. gradually over broken bad lands, draining E.
3.00	Top of ridge, 20 ft. above cor., extends from S. 70° W.; desc.
13.60	Wash, 20 lks. wide, 3 ft. deep, 15 ft. below top of ridge, course, N. 60° E.; asc. gradually over numerous small washes, draining SE. into large wash.
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; S21 in N., S28 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. 20, 21, 28, and 29. Land, broken, drains SE. into large wash draining N. 60° E. Soil, blue clay and adobe. Undergrowth, shad scale. Poor grazing. No timber.

40.00	N. 0° 3' W., bet. secs. 20 and 21. Asc. gradually over rolling bench land, through shad scale and yellowtop. 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., S21 in E., and S20 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.

Chains high, W. of cor.
 SW. Cor. of wire fence, around cultivated land, bears N. 37° 40' W.
 SE. cor. of same field bears N. 14° 30' E.
 59.75 Wire fence, bears N. 73° E. and S. 73° W.; enter cultivated land.
 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;
 T40NR4W in N. half;
 S17 in NW.,
 S16 in NE.,
 S21 in SE., and
 S20 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.
 Soil, blue clay in S. half; light red sandy loam, with red clay subsoil in N. half;
 Undergrowth, shad scale and yellowtop.
 Fair grazing.

40.00 East, on a random line, bet. secs. 16 and 21.
 Set temp. ¼ sec. cor.
 80.13 Intersect the N. and S. line, at the cor. of secs. 15, 16, 21, and 22,
 Thence I run
 West, on a true line, bet. secs. 16 and 21.
 Asc. gradually over broken bad lands; drains SE.
 35.00 E. edge broken mesa, bears NE. and SW.
 40.06½ 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;
 S16 in N.,
 S21 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.
 48.75 W. edge of broken mesa, bears NW. and SE.; desc. gradually over broken land.
 75.20 Wire fence, bears N. and S.; enter cultivated field.
 80.13 The cor. of secs. 16, 17, 20, and 21.
 Land, broken bad lands, draining S.
 Soil, blue clay and adobe.
 Undergrowth, shad scale.
 Poor grazing.
 No timber.

N. 0° 3' W., bet. secs. 16 and 17.
 Over cultivated land.
 6.60 Fence, bears N. 80° W. and S. 80° E.; asc. over rolling land.
 16.25 Road, to Fredonia, bears N. 80° E. and S. 80° W.
 17.40 Road, to Moccasin, bears N. 35° E. and S. 35° W.
 25.00 Enter scattering scrub cedar and pinion, bears E. and W.; light sandy soil.
 29.40 Wire fence, bears E. and W.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap
 1914 on S. rim;
 ¼ in N.,
 S16 in E., and
 S17 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. No trees within limits suitable for

20.

Subdivision of T. 40 N., R. 4 W.

Chains bearing trees.
 43.60 Road, from Pipe Springs to Moccasin, bears N. 35° W., and S. 35° E.
 65.00 Top of ascent, bears E. and W.; leave light sandy soil; continue over blue clay and adobe bad lands.
 79.40 Wash, 5 lks. wide, 2 ft. deep, 30 ft. below top of ascent; drains SE.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the cor. of secs. 8, 9, 16, and 17, marked on brass cap
 1914 on S. rim;
 T4ONR4W in N. half;
 S8 in NW.,
 S9 in NE.,
 S16 in SE., and
 S17 in SW. quadrant; from which
 A pinion, 10 ins. diam., bears N. $0^{\circ} 45'$ E., 144 lks. dist., marked T4ONR4WS9BT.
 A cedar, 10 ins. diam., bears S. 21° E., 215 lks. dist., marked T4ONR4WS16BT.
 A cedar, 8 ins. diam., bears S. 13° W., 95 lks. dist., marked T4ONR4WS17BT.
 A pinion, 10 ins. diam., bears N. $57^{\circ} 10'$ W., 272 lks. dist., marked T4ONR4WS8BT.
 Land, rolling and broken, drains SW. in S. half; E. in N. half;
 Soil, light red sandy loam, 25 chs.; white drift sandm 40 chs.; blue clay and adobe, 15 chs.,
 Undergrowth, shad scale and greasewood.
 Scrub cedar and pinion timber.

August 25, 1914.

 August 28, 1914.
 East, on a random line, bet. secs. 9 and 16.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.19 Intersect the N. and S. line, at the cor. of secs. 9, 10, 15, and 16.
 Thence I run
 West, on a true line, bet. secs. 9 and 16.
 Asc. gradually over broken bad lands, through shad scale.
 40.09 $\frac{1}{2}$ 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;
 S 9 in N.,
 S16 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.
 72.00 Road, Moccasin to Pipe Springs, bears N. and S.
 80.19 The cor. of secs. 8, 9, 16, and 17.
 Land, broken; drains SE.
 Soil, blue clay and adobe.
 Undergrowth, shad scale.
 Poor grazing.
 No timber.

 August 28, 1914: I set off $36^{\circ} 52'$ N. on the lat. arc; $9^{\circ} 52'$ N. on the decl. arc; and, at 9h 31m a. m., 1. m. t., determine a meridian with the solar.
 Thence I run
 N. $0^{\circ} 3'$ W., bet. secs. 8 and 9.
 Over rolling land, covered with dense scrub cedar and pinion.
 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.,

Chains

S9 in E., and
 S8 in W. half; from which
 A cedar, 16 ins. diam., bears N. 72° E., 114 lks.
 dist., marked $\frac{1}{4}$ S9BT.
 A cedar, 14 ins. diam., bears S. 61° 10' W., 117 lks.
 dist., marked $\frac{1}{4}$ S8BT.
 Desc. gradually over light red sandy loam.
 53.00 Telephone line, Pipe Springs to Kanab, bears N. 35° E.
 and S. 35° W.
 75.25 Road, Moccasin to Pipe Springs, bears N. 35° W. and S.
 35° E.
 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;
 T40NR4W in N. half;
 S5 in NW.,
 S4 in NE.,
 S9 in SE., and
 S8 in SW. quadrant; from which
 A cedar, 6 ins. diam., bears N. 60° 10' E., 90 lks.
 dist., marked T40NR4WS4BT.
 A cedar, 14 ins. diam., bears S. 66° 10' E., 21 lks.
 dist., marked T40NR4WS9BT.
 A cedar, 12 ins. diam., bears S. 86° 15' W., 105 lks.
 dist., marked T40NR4WS8BT.
 A cedar, 12 ins. diam., bears N. 45° 30' W., 156 lks.
 dist., marked T40NR4WS5BT.
 Land, rolling and broken; drains NE.
 Soil, blue clay and adobe, south half; light red sandy
 loam, north half. Subsoil, hard red clay.
 Timber, scrub cedar and pinion.
 Undergrowth, greasewood.
 Fair grazing.

 East, on a random line, bet. secs. 4 and 9.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.10 Intersect the N. and S. line, 2 lks. S. of the cor. of
 secs. 3, 4, 9, and 10.
 Thence I run
 S. 89° 59' W., on a true line, bet. secs. 4 and 9.
 Asc. gradually over rolling land, through greasewood and
 sagebrush.
 5.00 Wire fence, bears N. 35° W. and S. 35° E.
 40.05 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
 1914 on S. rim;
 S4 in N.,
 S9 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.
 Enter scattering scrub cedar and pinion timber; trees too
 small for bearing trees.
 61.00 Telephone line, Pipe Springs to Kanab, bears N. 35° E. and
 S. 35° W. At this point an old road crosses and re-
 crosses the line, running E. and W.
 80.10 The cor. of secs. 4, 5, 8, and 9.
 Land, rolling and drains SE.
 Soil, light red sandy loam, with hard red clay subsoil.
 Timber, scattering cedar and pinion in W. half;
 Undergrowth, greasewood and sagebrush.
 Good grazing.

 August 28, 1914: I set off 9° 50' N. on
 the decl. arc; and, at apparent noon, observe the sun
 on the meridian; the resulting lat. is 36° 53' N.
 Thence I run

22. Subdivision of T. 40 N., R. 4 W.

Chains N. 0° 3' W., bet. secs. 4 and 5.
 Desc. gradually over rolling land, through scattering scrub cedar timber, sagebrush, and greasewood undergrowth.

15.00 Leave scattering cedars; bears E. and W.

30.70 Wire fence, bears N. 69° 30' E. and S. 69° 30' W.; enter cultivated Indian 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
 $\frac{1}{4}$ in N.,
 S4 in E., and
 S5 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.

The NE. cor. of the Kaibab Indian School building bears S. 81 $\frac{1}{4}$ ° W., 21.30 chs.

The SE. cor. of the Indian office and residence bears S. 83° W., 21.60 chs.

The SE. cor. of barn bears S. 82 $\frac{1}{2}$ ° W., 25.60 chs.

The SE. cor. of the most northerly stone house in row of six houses bears S. 80 $\frac{3}{4}$ ° W., 29.80 chs.

The SE. cor. of the most southerly stone house in row of six houses bears S. 72 $\frac{1}{2}$ ° W., 29.28 chs.

47.40 Road, Indian Village to Kanab, bears NE. and SW.

47.50 Stake and rider fence, and telephone line, bear NE. and SW.

72.50 Two Mile Seep, 30 lks. wide, 3 ft. deep, drains SE.

73.50 Intersect the Tenth Standard Parallel North, 6.37 chs. E. of the standard cor. of secs. 32 and 33, T. 41 N., R. 4 W. At point of intersection I
 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for closing cor. of secs. 4 and 5, marked on brass cap
 1914 on S. rim;
 T41NS32S33 in N.,
 T40N in S. and
 R4W in W. half;
 CC S. of center;
 S4 in SE. and
 S5 in SW. quadrant;
 dig pits, 24x18x12 ins., crosswise on each line, E. and W. of post, 3 ft., and S. of post, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, S. of cor.

Land, rolling; drains SE.
 Soil, light red sandy loam, with red clay subsoil.
 Undergrowth, greasewood and sagebrush.
 Good grazing.
 Timber, scattering scrub cedar, 15 chs.

August 28, 1914.

August 26, 1914: At the cor. of secs. 5, 6, 31, and 32, Ts. 39 and 40 N., R. 4 W., I set off 36° 49' N. on the lat. arc; 10° 36' N. on the decl. arc; and, at 8h 2m a. m., 1. 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 and 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.,
 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 $\frac{1}{2}$ 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. 29, 30, 31, and 32,

Chains marked on brass cap
 1914 on S. rim;
 T40NR4W in N. half;
 S30 in NW.,
 S29 in NE.,
 S32 in SE., and
 S31 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, of medium texture; subsoil,
 red clay.
 Undergrowth, yellowtop and shad scale.
 Good grazing.

 S. 89° 58' E., on a random line, bet. secs. 29 and 32.
 40.00 Set temp. ¼ sec. cor.,
 80.00 Intersect the N. and S. line, 5 lks. S. of 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 shad scale and
 yellowtop.
 3.60 Wash, 35 lks. wide, 7 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;
 S29 in N.,
 S32 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.
 80.00 The cor. of secs. 29, 30, 31, and 32.
 Land, gently rolling; drains SE.
 Soil, light red sandy loam, of medium texture; subsoil,
 red clay.
 Undergrowth, yellowtop and shad scale.
 Good grazing.

 N. 89° 58' W., on a random line, bet. secs. 30 and 31.
 40.00 Set temp. ¼ sec. cor.
 78.10 Intersect the W. bdy. of the T., 7 lks. N. of the cor.
 of secs. 25, 30, 31, and 36.
 Thence I run
 N. 89° 59' E., on a true line, bet. secs. 30 and 31.
 Desc. gradually over rolling land, through shad scale and
 yellowtop.
 38.10 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;
 S30 in N.,
 S31 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.
 62.00 Road, Pipe Springs to Mr. Trumble, bears NE. and SW.
 78.10 The cor. of secs. 29, 30, 31, and 32.
 Land, gently rolling; drains SE.
 Soil, light red sandy loam, of medium texture; subsoil,
 red clay.
 Undergrowth, yellowtop and shad scale.
 Good grazing.

 August 26, 1914: I set off 10° 32' N. on

24.

Subdivision of T. 40 N., R. 4 W.

Chains	the decl. arc; and, at apparent noon, observe the sun on the meridian; the resulting lat. is $36^{\circ} 50'$ N. Thence I run N. $0^{\circ} 3'$ W., bet. secs. 29 and 30. Asc. gradually over gently rolling land, through yellowtop, shad scale, and greasewood.
30.60	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 $\frac{1}{4}$ 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.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the cor. of secs. 19, 20, 29, and 30, marked on brass cap 1914 on S. rim; T40NR4W in N. half; S19 in NW., S20 in NE., S29 in SE., and S30 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, gently rolling; drains SE. Soil, light red sandy loam and clay; subsoil, same. Undergrowth, shad scale, greasewood, and yellowtop. Good grazing.

40.00	East, on a random line, bet. secs. 20 and 29. Set temp. $\frac{1}{4}$ sec. cor.
79.94	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. Desc. gradually over broken bad lands, through shad scale and yellowtop.
14.00	Leave broken bad lands, enter rolling land, bears N. 35° E. and S. 35° W.
25.00	Leave blue clay and adobe soil, enter light red sandy loam, bears N. and S.
39.97	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap 1914 on S. rim; S20 in N., S29 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.
43.60	Wash, 7 lks. wide, 3 ft. deep; drains S.
56.60	Road, Pipe Springs to Mt. Trumble, bears N. and S.
59.00	Wash, 35 lks. wide, 8 ft. deep; drains SE.
79.94	The cor. of secs. 19, 20, 29, and 30. Land, broken and rolling. Soil, blue clay and adobe, 25 chs.; light red sandy loam, 55 chs. Subsoil, blue and red clay. Undergrowth, yellowtop and shad scale. Good grazing.

40.00	S. $89^{\circ} 59'$ W., on a random line, bet. secs. 19 and 30. Set temp. $\frac{1}{4}$ sec. cor.,
78.05	Intersect the W. bdy. of the T., 7 lks. N. of the cor. of secs. 19, 24, 25, and 30. Thence I run

Chains N. 89° 56' E., on a true line, bet. secs. 19 and 30.
 Over rolling land, through greasewood, shad scale, and yellowtop.
 6.25 Wash, 30 lks. wide, 7 ft. deep; drains S. 35° E.
 38.05 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
 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.
 78.05 The cor. of secs. 19, 20, 29, and 30.
 Land, rolling; drains SE.
 Soil, light red sandy loam, of medium texture; subsoil, red clay.
 Undergrowth, greasewood, shad scale, and yellowtop.
 Good grazing.
 August 26, 1914.

 August 29, 1914: I set off 36° 51' N. on the lat. arc; 9° 33' N. on the decl. arc; and, at 8h. 1m a. m., 1. m. t., determine a meridian with the solar Thence I run
 N. 0° 3' W., bet. secs. 19 and 20.
 Asc. gradually over rolling land, through shad scale and yellowtop.
 35.75 Wash, 60 lks. wide, 4 ft. deep; drains S. 35° 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.,
 S20 in E., and
 S19 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.
 56.00 Old dim road, bears N. 60° E. and S. 60° W.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 17, 18, 19, and 20, marked on brass cap
 1914 on S. rim;
 T40NR4W in N. half;
 S18 in NW.,
 S17 in NE.,
 S20 in SE., and
 S19 in SW. quadrant; from which
 A cedar, 8 ins. diam., bears N. 64° 30' E., 83 lks. dist., marked T40NR4WS17BT.
 A cedar, 8 ins. diam., bears S. 44° 30' E., 120 lks. dist., marked T40NR4WS20BT.
 A cedar, 16 ins. diam., bears S. 44° W., 50 lks. dist., marked T40NR4WS19BT.
 No tree available for bearing tree in sec. 18.
 Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 This cor. is established in the edge of scattered cedar timber.
 Land, rolling; drains SE.
 Soil, south half, light sand; north half, light red sandy loam; subsoil, red sandy loam.
 Undergrowth, shad scale and yellowtop.
 Fair grazing.

 40.00 N. 89° 59' E., on a random line, bet. secs. 17 and 20.
 79.86 Set temp. $\frac{1}{4}$ sec. cor.
 Intersect the N. and S. line, 2 lks. N. of the cor. of secs. 16, 17, 20, and 21.

26.

Subdivision of T. 40 N., R. 4 W.

Chains	Thence I run
	West, on a true line, bet. secs. 17 and 20. Desc. gradually over cultivated land.
11.40	Wash, 35 lks. wide, 10 ft. deep; drains SW.
18.80	Wash, 25 lks. wide, 8 ft. deep; drains SW.
21.50	Wire fence, bears NW. and SE.; leave cultivated land; enter gently rolling land, through shad scale and yellowtop.
22.25	Wash, 30 lks. wide, 10 ft. deep; drains S. 35° W.
26.85	Road, to Mt. Trumble, bears N. and SW.
39.50	Old dim road, bears NE. and SW.
39.93	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; S17 in N., S20 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.
43.00	Fork of two washes, 15 lks. wide, 5 ft. deep, from N. 35° E. and N. 70° E., draining S. 35° W.
55.40	Wash, 10 lks. wide, 4 ft. deep; course, SW.
63.80	Wash, 10 lks. wide, 4 ft. deep; course, S. 35° W.
79.86	The cor. of secs. 17, 18, 19, and 20. Land, broken foothills of mesa, draining SW. Soil, light red sandy loam, rocky in places. Subsoil, red sandy loam, 58 chs.; dark loam, 22 chs., slightly rocky. Undergrowth, short shad scale and yellowtop. Thorn brush, 21.50 chs. Fair grazing. No timber.

40.00	S. 89° 56' W., on a random line, bet. secs. 18 and 19. Set temp. $\frac{1}{4}$ sec. cor.,
77.88	Intersect the W. bdy. of the T., 17 lks. S. of the cor. of secs. 13, 18, 19, and 24. Thence I run S. 89° 57' E., on a true line, bet. secs. 18 and 19. Desc. gradually over rolling land, through greasewood, shad scale, and yellowtop.
37.88	Set an iron post, 3 ft. long, 1 in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap 1914 on S. rim; S18 in N., S19 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.
52.63	Wire fence and telephone line, from Pipe Springs to Hurricane, bears N. 80° and S. 80° W.
59.40	Wash, 30 lks. wide, 10 ft. deep; drains S.
62.60	Road, Pipe Springs to Hurricane and St. George, bears N. 70° E. and S. 70° W.
77.50	Wash, 25 lks. wide, 5 ft. deep; drains S. 35° W.
77.88	The cor. of secs. 17, 18, 19, and 20. Land, rolling; drains S. Soil, light red sandy loam and some gravel. Subsoil, red sandy loam. Undergrowth, scattered shad scale, yellowtop, and greasewood. Fair grazing. August 29, 1914: Rained in p. m. Noon observation for lat. impracticable. August 29, 1914.

August 31, 1914:	I set off 36° 51' 30" N.

Chains on the lat. arc; 8° 50' N. on the decl. arc; and, at 7h 30m a. m., 1. m. t., determine a meridian with the solar.

Thence I run N. 0° 3' W., bet. secs. 17 and 18.

Asc. gradually over rolling land, through shad scale, greasewood, and yellowtop, scattering scrub cedar and pinion timber.

2.60 Road from Pipe Springs to Hurricane and St. George, bears E. and W.

2.90 Wire fence and telephone line from Pipe Springs to Hurricane, bears N. 83° E. and S. 83° 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.,
 S17 in E., and
 S18 in W. half; from which
 A pinion, 7 ins. diam., bears S. 67° 30' E., 67 lks. dist., marked $\frac{1}{4}$ S17BT.
 A pinion, 7 ins. diam., bears S. 48° 30' W., 65 lks. dist., marked $\frac{1}{4}$ S18BT.

80.00 Start abrupt ascent over steep broken SW. slope of mesa. Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the cor. of secs. 7, 8, 17, and 18, marked on brass cap
 1914 on S. rim;
 T40NR4W in N. half;
 S7 in NW.,
 S8 in NE.,
 S17 in SE., and
 S18 in SW. quadrant; and
 raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. No trees within limits.

Land, rolling, 40 chs.; rough, steep, and broken, 40 chs. Soil, light red sandy loam, of medium texture, with subsoil of red clay, 30 chs.; light red clay and stony, 50 chs. Timber, scrub cedar and pinion. Undergrowth, shad scale, greasewood, and yellowtop. Good grazing.

40.00 East, on a random line, bet. secs. 8 and 17. Set temp. $\frac{1}{4}$ sec. cor.

79.94 Intersect the N. and S. line, 18 lks. S. of the cor. of secs. 8, 9, 16, and 17.

Thence I run S. 89° 52' W., on a true line, bet. secs. 8 and 17. Over rough broken foothills of mesa, draining NE.; asc. through dense scrub cedar and pinion timber.

3.40 Telephone line, Pipe Springs to Kanab, bears N. and S.

4.50 Road, Pipe Springs to Moccasin, bears N. and S.

24.00 Base of steep sandy and rocky slope of mesa, 125 ft. above cor., bears N. and S.; asc. abruptly, 230 ft.

39.97 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
 1914 on S. rim;
 S8 in N.,
 S17 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 suitable for bearing trees.

53.20 Top of ridge, bears N. and S., 350 ft. above $\frac{1}{4}$ sec. cor; desc.

69.25 Edge of broken sandstone rim of mesa, 75 ft. below top of ridge, bears NW. and S. 36° E.; desc. abruptly.

73.50 Bottom of broken sandstone ledges, 300 ft. below top, bears NW. and S. 35° E.; desc.

79.94 The cor. of secs. 7, 8, 17, and 18, 200 ft. below base of ledges.
 Land, broken and mountainous; drains NE. and SW.

28.

Subdivision of T. 40 N., R. 4 W.

Chains	Soil, white sand of fine texture, with bedrock close to surface. Timber, scrub cedar and pinion. Undergrowth, scattering greasewood. Poor grazing. August 31, 1914: No noon observation for lat. was taken. No work done in p. m. August 31, 1914.

	September 1, 1914: I set off $36^{\circ} 52'$ N. on the lat. arc; $8^{\circ} 28'$ N. on the decl. arc; and, at 8h. a. m., 1. m. t., determine a meridian with the solar.
	Thence I run
40.00	N. $89^{\circ} 57'$ W., on a random line, bet. secs. 7 and 18.
77.82	Set temp. $\frac{1}{4}$ sec. cor., Intersect the W. bdy. of the T., at the cor. of secs. 7, 12, 13, and 18.
	Thence I run
13.00	S. $89^{\circ} 57'$ E., on a true line, bet. secs. 7 and 18. Desc. gradually over rolling broken land.
17.30	Enter broken foothills of mesa slope, covered with dense scrub cedar and pinion timber, bears NW. and S.
27.30	Wash, 30 lks. wide, 2 ft. deep, drains S. 35° E.; asc. gradually over several small washes draining S.
37.82	Wash, 15 lks. wide, 3 ft. deep; drains S. Set an iron post, 3 ft. long, 1 in. diam., 8 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; S7 in N., S18 in S., and $\frac{1}{4}$ in W. half; from which A pinion, 8 ins. diam., bears S. 28° E., 142 lks. dist., marked $\frac{1}{4}$ S18BT. A Pinion, 8 ins. diam., bears N. $50^{\circ} 45'$ W., 134 lks. dist., marked $\frac{1}{4}$ S7BT.
38.30	Wash, 10 lks. wide, 4 ft. deep; drains S.
57.25	Wash, 15 lks. wide, 4 ft. deep; drains S. 35° W.
73.00	Base of steep rocky SW. slope of mesa, bears N. and S. 36° E.; asc. abruptly.
77.82	The cor. of secs. 7, 8, 17, and 18, 150 ft. above base of abrupt ascent. Land, rolling, 13 chs.; broken foothills, 60 chs.; rough mountains, 7 chs. Soil, red sandy loam, 13 chs., red and white disintegrated sandstone and rocky, 67 chs. Timber, scrub cedar and pinion, 67 chs. Short undergrowth, 13 chs. Poor grazing.

	N. $0^{\circ} 3'$ W., bet. secs. 7 and 8.
	Asc. abruptly over steep broken SW. slope of mesa, through deep fine white sand, scrub cedar and pinion timber, service and buck brush undergrowth.
9.00	Base of ledge rim, 250 ft. high, bears NW. and SE.
20.00	Top of ledge rim, 425 ft. above cor., bears N. and S. 35° E.; continue gradual ascent along rim.
27.00	Leave rim, bearing NW.; asc. gradually.
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 pinion, 16 ins. diam., bears N. 30° E., 51 lks. dist., marked $\frac{1}{4}$ S8BT. A pinion, 10 ins. diam., bears S. 59° W., 9 lks. dist., marked $\frac{1}{4}$ S7BT.

Subdivision of T. 40 N., R. 4 W.

Chains September 1, 1914: At this cor., I set off 8° 24' N. on the decl. arc; and, at apparent noon, observe the sun on the meridian; the resulting lat. is 36° 53' N.

42.50 Top of ascent, bears NW. and SE.; desc. gradually.

60.00 Start abrupt descent, over white sandy surface and broken sandstone ledges, bearing NW. and SE.

62.00 Head of canyon, drains N., bears E. 5 chs.

80.00 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. 5, 6, 7, and 8, marked on brass cap

1914 on S. rim;
T40NR4W in N. half;
S6 in NW.,
S5 in NE.,
S8 in SE., and
S7 in SW. quadrant; from which

A pinion, 6 ins. diam., bears N. 40° E., 8 lks. dist., marked T40NR4WS5BT.

A pinion, 8 ins. diam., bears S. 25° E., 57 lks. dist., marked T40NR4WS8BT.

A pinion, 10 ins. diam., bears S. 38° W., 47 lks. dist., marked T40NR4WS7BT.

A pinion, 12 ins. diam., bears N. 58° W., 39 lks. dist., marked T40NR4WS6BT.

Land, broken and mountainous. S. half drains SW.; N. half drains NE.

Soil, white sand of fine texture, with bedrock close to surface.

Timber, scrub cedar and pinion.

Undergrowth, service and buck brush.

Good grazing on ridges.

40.00 N. 89° 52' E., on a random line, bet. secs. 5 and 8. Set temp. ¼ sec. cor.

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

Thence I run

S. 89° 48' W., on a true line, bet. secs. 5 and 8.

Asc. gradually over broken foothills of mesa, through scrub cedar and pinion timber.

3.00 Road, Pipe springs to Moccasin, bears N. 35° W. and S. 35° E.

16.00 Road, Pipe Springs to Moccasin, bears N. and S.

39.99 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;
S5 in N.,
S8 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. Trees too scrubby for bearing trees.

45.50 Wash, 25 lks. wide, 4 ft. deep, drains N. 70° E.

50.00 Low point, 20 ft. above wash, projects S.

55.00 Same wash, drains S. about 3 chs., thence N. 60° E.; asc. abruptly.

60.00 Same wash, bears N. 1 ch., drains E.

70.50 Spur, projects from N., 70 ft. above wash; desc.

73.00 Gulch, 70 ft. below top of spur, drains N.; asc.

79.98 The cor. of secs. 5, 6, 7, and 8, 150 ft. above bottom of gulch.

Land, broken and mountainous; drains NE.

Soil, light and sandy, 55 chs.; rocky, 25 chs.

Timber, scattering scrub cedar and pinion.

Undergrowth, sage and buck brush.

Fair grazing.

September 1, 1914.

30.

Subdivision of T. 40 N., R. 4 W.

- Chains September 2, 1914: At the cor. of secs. 5, 6, 7, and 8, I set off $36^{\circ} 53'$ N. on the lat. arc; $8^{\circ} 6'$ N. on the decl. arc; and, at 8h a. m., l. m. t., determine a meridian with the solar.
- Thence I run
N. $89^{\circ} 57'$ W., on a random line, bet. secs. 6 and 7.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 77.73 Intersect the W. bdy. of the T., 15 lks. S. of the cor. of secs. 1, 6, 7, and 12.
- Thence I run
S. $89^{\circ} 51'$ E., on a true line, bet. secs. 6 and 7.
Asc. abruptly over broken mountainous land, along S. rim of mesa, through scrub cedar and pinion timber.
- 6.00 Top of ascent, bears N. and S., 150 ft. above cor.; asc. gradually.
- 10.70 Top of gradual ascent, 50 ft. above top of abrupt ascent, bears N. and S.; desc. gradually.
- 37.73 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
1914 on S. rim;
S6 in N.,
S7 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. No trees suitable for bearing trees within limits.
- 48.00 Start abrupt descent, bears N. and S.
- 50.70 Gulch, drains from NW. to S. 85° E.; continue along N. side of same. Gulch is 150 ft. below top of abrupt descent.
- 54.20 Same gulch, drains N. 35° E.
- 55.70 Spur, projecting N., 100 ft. above bottom of gulch.
- 64.70 Gulch, drains N. 35° E.; asc. abruptly.
- 66.70 Spur, projects N., 150 ft. above bottom of gulch; desc.
- 77.73 The cor. of secs. 5, 6, 7, and 8.
Land, broken and mountainous.
Soil, white sand of fine texture, stony, broken with outcroppings of sandstone ledges.
Timber, scrub cedar and pinion.
Undergrowth, sage.
Good grazing.
-
- September 2, 1914: At the cor. of secs. 5, 6, 7, and 8, I set off $8^{\circ} 2'$ N. on the decl. arc; and, at apparent noon, observe the sun on the meridian; the resulting lat. is $36^{\circ} 53'$ N.
- Thence I run
N. $0^{\circ} 3'$ W., bet. secs. 5 and 6.
Over broken mountainous land, covered with dense scrub cedar and pinion timber.
- 11.50 Bottom of gulch, 25 lks. wide, 125 ft. below cor., drains SE.; asc.
- 24.00 Sandstone ledge, 40 ft. high, 325 ft. above bottom of gulch, bears NE. and SW.; asc. gradually.
- 26.00 Top of rocky spur, projecting E., 100 ft. above top of sandstone ledge; desc.
- 27.75 Broken sandstone ledge, bears NW. and SE.; desc. abruptly over broken NE. slope.
- 32.00 Bottom of broken ledges, 225 ft. below top, bears NW. and SE.; desc. gradually over broken foothills of mesa slope.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
1914 on S. rim;
 $\frac{1}{4}$ in N.,
S5 in E., and
S6 in W. half; from which
A pinion, 5 ins. diam., bears S. $65^{\circ} 15'$ E., 32 lks. dist., marked $\frac{1}{4}$ S5BT.
A pinion, 14 ins. diam., bears S. $52^{\circ} 30'$ W., 19 lks. dist., marked $\frac{1}{4}$ S6BT.

Chains
55.00

Base of broken foothills, and cove, 450 ft. below top of rocky spur, bears N. 35° W. and NE.; leave cedar and pinion timber; desc. gradually over open land.

73.87

Intersect the 10th Standard Parallel North, 6.45 chs. E. of the standard cor. of secs. 31 and 32, T. 41 N., R. 4 W. At point of intersection I

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

1914 on S. rim;
T41NS31S32 in N.,
T40N in S., and
R4W in W. half;
CC S. of center;
S5 in SE., and
S6 in SW. quadrant;

dig pits, 24x18x12 ins., crosswise on each line, E. and W. of post, 3 ft., and S. of post, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, S. of cor.

Land, rolling, broken, and mountainous; drains SE. Soil, rocky and light sandy loam, with red clay subsoil. Timber, scrub cedar and pinion. Undergrowth, white sage, oak, service, and buck brush. Fair grazing.

September 2, 1914.

GENERAL DESCRIPTION.

The lands in this township are rolling in the southern, broken in the central and eastern, and mountainous in the northwestern portion. The soil in the southern and southwestern portion is of a light red sandy loam from medium to fine texture, two to three feet in depth, on subsoil of red clay, with an undergrowth of greasewood, shad scale and grass known as yellowtop. The soil in the broken bad lands in the central and eastern portion is blue clay and adobe, with a scant growth of shad scale and grass. The rough, mountainous land in the northwestern portion consists mostly of sandstone ledges and fine white drift sand, especially on top of what is known as the Red Ledges. The soil in the valley in the vicinity of the Kaibab Indian school and Two Mile Seep ranch consists of dark red sandy loam, and, in some localities, almost black loam.

The Kaibab Indian village consists of one frame school house, one frame residence and office building, one frame barn, and six stone houses for the Indians. There are about eighty Piute Indians on the reservation. Water is piped from Moccasin Spring, about 2 miles N.

There are two stone houses at Pipe Springs, where one family resides. Pipe Spring supplies a large amount of clear, cold water, which is stored in a small reservoir and used to irrigate a small area of land and to furnish water for cattle. This is the only good water on the road from Kanab to Hurricane. The spring is claimed by Jonathan Heaton of Moccasin, Arizona.

Two Mile Seep ranch consists of a small board house, about 15x15 ft., a small reservoir and corral, and a small spring which furnishes a limited amount of water.

As a whole, the township is good grazing land. Scrub cedar and pinion timber grow on top of the Red Ledges and foothills. It is no value other than for fuel and fence posts.

I noticed no indications of merial or oil in the township.

Joseph C. Thomas

U. S. Surveyor.

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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 40 North Range 4 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 J. Smith
 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.~~