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BOOK 2858

BOOK "D"

# FIELD NOTES

OF THE SURVEY OF THE

Subdivision Lines

of

T. 39 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 July 17, 1914.







Survey completed August 5, 1914.

# Book "D"

BOOK 2858

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Subdivision of T. 39 N., R. 4 W.

Chains Survey commenced July 23, 1914, and executed with Young and Sons' light mountain transit No. 8535. For description of instrument, see page 1, Book "B." For test of instrument, see page 58, Book "A."

July 23, 1914: At the cor. of secs. 1, 2, 35, and 36, Ts. 38 and 39 N., R. 4 W. I set off 36° 44' N. on the lat. arc; 20° 11' N. on the decl. arc; and, at 8h 36m a. m., l. m. t., determine a meridian with the solar.

Thence I run N. 0° 01' W., bet. secs. 35 and 36.

Over rolling land, covered with greasewood and yellowtop undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 4 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., S36 in E., and S35 in W. half; and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.

This cor. is located near the head of a small draw, draining NE.; continue gradual descent.

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; T39NR4W in N. half; S26 in NW., S25 in NE., S36 in SE., and S35 in SW. quadrant; and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.

Land, rolling, with southern exposure. Soil, red sandy loam of coarse texture and fine red gravel, with bedrock close to surface.

No timber. Undergrowth, greasewood and yellowtop. Poor grazing.

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

40.00 Set temp. 1/4 sec. cor. 80.02 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. Desc. gradually over rolling land, draining N., covered with greasewood and yellowtop undergrowth.

20.00 Draw, drains N.; asc. gradually.

40.01 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; S25 in N., S36 in S., and 1/4 in W. half; and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Pits impracticable.

This cor. is located on a low spur, projecting N.; desc. gradually.

60.00 Draw, drains N.; asc. gradually.

75.00 Spur, projecting N.; desc. gradually.

80.02 The cor. of secs. 25, 26, 35, and 36. Land, rolling, with southern exposure. Soil, red sandy loam of coarse texture and fine red gravel, with bedrock close to surface. No timber.

2. Subdivision of T. 39 N., R. 4 W.

Chains	<p>Undergrowth, greasewood and yellowtop.          Poor grazing.</p> <hr/> <p>N. 0° 1' W., bet. secs. 25 and 26.          Desc. gradually over rolling land, covered with greasewood and yellowtop.</p> <p>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 <math>\frac{1}{4}</math> sec. cor., marked on brass cap          1914 on S. rim;  <math>\frac{1}{4}</math> in N.,          S25 in E., and          S26 in W. half; and          raise a mound of stone, 2 ft. base, 1<math>\frac{1}{2}</math> ft. high, W. of cor. Pits impracticable.</p> <p>45.00 Draw, 10 lks. wide, drains, NE.; asc. gradually.</p> <p>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. 23, 24, 25, and 26, marked on brass cap          1914 on S. rim;          T39NR4W 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<math>\frac{1}{2}</math> ft. dist.;          and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.          Land, hilly and rolling, drains NE.          Soil, sandy loam, with outcropping sandstone and gravel.          Subsoil, sandstone bedrock.          No timber.          Undergrowth, greasewood and yellowtop.</p> <hr/> <p>East, on a random line, bet. secs. 24 and 25.</p> <p>40.00 Set temp. <math>\frac{1}{4}</math> sec. cor.</p> <p>80.08 Intersect the E. bdy. of the T. at the cor. of secs. 19, 24, 25, and 30.          Thence I run          West, on a true line, bet. secs. 24 and 25.          Desc. gradually over rolling land, covered with greasewood and yellowtop.</p> <p>34.00 Wash, in hollow, 8 lks. wide, 3 ft. deep, drains N.; asc. gradually.</p> <p>40.04 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for <math>\frac{1}{4}</math> sec. cor., marked on brass cap          1914 on S. rim;          S24 in N.,          S25 in S., and  <math>\frac{1}{4}</math> in W. half; and          raise a mound of stone, 2 ft. base, 1<math>\frac{1}{2}</math> ft. high, N. of cor. Pits impracticable.</p> <p>80.08 Continue gradual ascent.          The cor. of secs. 23, 24, 25, and 26.          Land, hilly and rolling, drains NE.          Soil, sandy loam, with outcropping sandstone and gravel.          Subsoil, sandstone bedrock.          No timber.          Undergrowth, greasewood and yellowtop.          July 23, 1914.</p> <hr/> <p>July 25, 1914: At the cor. of secs. 23, 24, 25, and 26,          I set off 36° 45' 30" N. on the lat. arc; 19° 46' N. on the decl. arc; and, at 9h 6m a. m., 1. m. t., determine a meridian with the solar.          Thence I run</p>
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Subdivision of T. 39 N., R. 4 W.

Chains N. 0° 1' W., bet. secs. 23 and 24.  
 Desc. gradually over rolling land, covered with greasewood and yellowtop.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground, to bedrock, surrounded by a mound of stone, for ¼ sec. cor., marked on brass cap  
 1914 on S. rim;  
 ¼ in N.,  
 S24 in E., and  
 S23 in W. half; and  
 raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.

43.25 Dim road, bears NW. and SE.

55.00 Head of small canyon, bears E. 1½ ch., drains N. 35° E.

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. 13, 14, 23, and 24, marked on brass cap  
 1914 on S. rim;  
 T39NR4W in N., half;  
 S14 in NW.,  
 S13 in NE.,  
 S24 in SE., and  
 S23 in SW. quadrant; and  
 raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.

Land, rolling, drains NE.  
 Soil, red sandy loam and gravel, with outcropping sandstone. Subsoil, red sandy gravel and bedrock.  
 No timber.  
 Undergrowth, greasewood and yellowtop.

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East, on a random line, bet. secs. 13 and 24.

40.00 Set temp. ¼ sec. cor.

80.00 Intersect the E. bdy. of the T., 4 lks. S. of the true point for the cor. of secs. 13, 18, 19, and 24.  
 Thence I run  
 S. 89° 58' W., on a true line, bet. secs. 13 and 24.  
 Desc. over broken S. side of canyon, over loose boulders.

12.50 Desc. abruptly.

14.50 Canyon wash, 20 lks. wide, 40 ft. below cor., course, N. 70° E. Water in canyon in pockets on the S. of line; asc. abruptly.

17.50 W. rim of canyon, bears NE. and S.; asc. gradually.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground, to bedrock, surrounded by a mound of stone, for ¼ sec. cor., marked on brass cap  
 1914 on S. rim;  
 S13 in N.,  
 S24 in S., and  
 ¼ in N. half; and  
 raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.

58.00 Top of gradual ascent, bears N. and S.; desc. gradually.

63.00 E. rim of small canyon, bears N. and S.; desc.

67.00 Canyon wash, 20 lks. wide; drains N.; 40 ft. below E. rim.

69.00 W. rim of canyon, 30 ft. above wash, bears N. and S.

80.00 The cor. of secs. 13, 14, 23, and 24.  
 Land, rough and broken.  
 Soil, rocky and red coarse gravel, with bedrock close to surface.  
 Undergrowth, greasewood and yellowtop.

July 25, 1914.

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July 27, 1914: I set off 36° 46' N. on the lat. arc; 19° 17' N. on the decl. arc; and, at 2h 6m. p. m., 1. m. t., determine a meridian with the solar.  
 Thence I run  
 N. 0° 1' W., bet. secs. 13 and 14.

## 4. Subdivision of T. 39 N., R. 4 W.

Chains	Desc. gradually over broken land.
12.20	Edge of small canyon, near head, bears NE. and SW.
16.50	Canyon wash, 25 lks. wide, 45 ft. below south edge, drains NE.
20;00	Point of spur, projecting NE., 40 ft. above bottom of wash
24.00	Wash, 40 ft. below point, 30 lks. wide, course E.; asc. abruptly.
29.00	Point of small sandstone rim, bears NW. and SW., 30 ft. above wash.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 10 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., S13 in E., and S14 in W. half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
42.50	Head of hollow, drains E.; asc.
46.00	Top of ascent, bears NE. and SW.; desc.
50.50	S. rim of Bull Rush canyon, bears N. $35^{\circ}$ E. and NW.; desc. abruptly.
52.00	Stream of muddywater in bottom of Bull Rush canyon, 60 ft. below S. rim. Stream is 5 lks. wide, 4 ins. deep, running in wash 40 lks. wide, with banks 15 ft. high, course NE. about 6 chs., thence N.
70.00	Base of ledge rims on N. side Bull Rush canyon, 25 ft. high, bears NW. and SW.
76.50	Top of ledge rims; desc. gradually.
79.65	Small wash, 5 lks. wide, 3 ft. deep, course S. $35^{\circ}$ W.
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; T39NR4W in N. half; S11 in NW., S12 in NE., S13 in SE., and S14 in SW. quadrant; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, broken and drains into Bull Rush wash. Soil, stony and red sandy gravel, coarse, with bedrock close to surface. Undergrowth, greasewood, yellowtop and buckbrush. Poor grazing.
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40.00	N. $89^{\circ} 58'$ E., on a random line, bet. secs. 12 and 13. Set temp. $\frac{1}{4}$ sec. cor.
80.08	Intersect the E. bdy. of the T. at the cor. of secs. 7, 12, 13, and 18. Thence I run S. $89^{\circ} 58'$ W., on a true line, bet. secs. 12 and 13. Over rolling land.
40.04	Set an iron post, 3 ft. long, 1 in. diam., 12 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; S12 in N., S13 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.
57.00	Small wash, 6 lks. wide, 3 ft. deep, drains S.; asc. gradually.
76.00	Top of low ascent, bears N. and S.; desc. gradually.
79.60	Small wash, near head, drains SW.
80.08	The cor. of secs. 11, 12, 13, and 14. Land, rolling. Soil, coarse red sandy gravel, with sandstone bedrock close to surface.

Subdivision of T. 39 N., R. 4 W.

Chains No timber.  
Undergrowth, greasewood and yellowtop.  
Poor grazing. July 27, 1914.

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August 3, 1914: At the cor. of secs. 11, 12, 13, and 14, I set off 36° 47' N. on the lat. arc; 17° 39' N. on the decl. arc; and, at 8h 6m a. m., l. m. t., determine a meridian with the solar. Thence I run N. 0° 1' W. bet. secs. 11 and 12.  
Over rolling land and outcropping sandstone.  
40.00 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground, to bedrock, surrounded by a mound of stone, for ¼ sec. cor., marked on brass cap  
1914 on S. rim;  
¼ in N.,  
S12 in E., and  
S11 in W. half; and  
raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.  
75.00 Road, 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. 1, 2, 11, and 12, marked on brass cap  
1914 on S. rim;  
T39NR4W 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, rolling.  
Soil, coarse red sandy gravel, with sandstone bedrock close to surface.  
No timber. Undergrowth, greasewood and yellowtop.  
Poor grazing.

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40.00 N. 89° 58' E., on a random line, bet. secs. 1 and 12.  
Set temp. ¼ sec. cor.  
80.12 Intersect the E. bdy. of the T., at the cor. of secs. 1, 6, 7, and 12. Thence I run S. 89° 58' W., on a true line, bet. secs. 1 and 12.  
Over gently rolling land, covered with shad scale and yellowtop.  
40.06 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; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.  
43.00 Base of spur, bears N. and S.; asc.  
49.00 Spur, projecting S., 30 ft. high; desc.  
55.00 Base of spur, 30 ft. below top, bears N. and S.  
75.00 Road, from Fredonia to Bull Rush, bears NE. and SW.  
80.12 The cor. of secs. 1, 2, 11, and 12.  
Land, rolling. Soil, coarse red sandy gravel, with sandstone bedrock close to surface.  
No timber. Undergrowth, greasewood and yellowtop.  
Poor grazing.

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The flag at the cor. of secs. 1, 2, 35, and 36, Ts. 39 and 40 N., R. 4 W., is plainly visible from the cor. of secs. 1, 2, 11, and 12; therefore, I run N. 0° 1' E., on a true line, bet. secs. 1 and 2.  
Over gently rolling land, covered with shad scale and yellowtop.  
25.00 Wash, 30 lks. wide, 4 ft. deep, drains E.; 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.,  
S1 in E., and  
S2 in W. half; dig pits, 18x18x12 ins., N.

## 6. Subdivision of T. 39 N., R. 4 W.

Chains and S. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.

80.02 Intersect the N. bdy. of the T. at the cor. of secs. 1, 2, 35, and 36.  
Land, rolling. Soil, coarse red sandy gravel, with sandstone bedrock close to surface.  
No timber. Undergrowth, greasewood and yellowtop.  
Poor grazing. August 3, 1914.

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July 23, 1914: At the cor. of secs. 2, 3, 34, and 35, Ts. 38 and 39 N., R. 4 W., I set off 20° 9' N. on the decl. arc; and, at apparent noon, observe the sun on the meridian; the resulting lat. is 36° 44' N.

Thence I run N. 0° 1' W., bet. secs. 34 and 35.  
Over rolling land, covered with greasewood and yellowtop.

5.75 Wash, 10 lks. wide, 4 ft. deep, drains NE.; asc. gradually  
10.00 Top of ascent, bears E. and W.; desc. gradually.  
25.00 Wash, 10 lks. wide, 3 ft. deep, drains NE.; desc. gradually  
40.00 Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in the ground, to bedrock, surrounded by a mound of stone, for ¼ sec. cor., marked on brass cap  
1914 on S. rim;  
¼ in N.,  
S35 in E., and  
S34 in W. half; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the cor. of secs. 26, 27, 34, and 35, marked on brass cap  
1914 on S. rim;  
T39NR4W 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. Soil, red sandy gravel and stone, with bedrock close to surface.  
No timber. Undergrowth, yellowtop and greasewood.  
Poor grazing.

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

40.00 Set temp. ¼ sec. cor.  
79.98 Intersect the N. and S. line 6 lks. N. of the cor. of secs. 25, 26, 35, and 36.  
Thence I run N. 89° 57' W., on a true line, bet. secs. 26 and 35.  
Over rolling land, covered with greasewood and yellowtop:

5.00 Wash, 10 lks. wide, 5 ft. deep, drains N.  
39.99 Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground, to bedrock, surrounded by a mound of stone, 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.

55.00 Spur, 20 ft. high, projecting NE.; desc. gradually.  
64.75 Wash in hollow, 30 ft. below spur, drains N.; asc.  
70.00 Spur, projecting N., 30 ft. above wash; desc. gradually.  
79.98 The cor. of secs. 26, 27, 34, and 35.  
Land, rolling.  
Soil, red sandy gravel and stone, with bedrock close to surface.  
No timber.  
Undergrowth, yellowtop and greasewood.  
Poor grazing.

July 23, 1914.

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Chains July 24, 1914.  
 N. 0° 1' W., bet. secs. 26 and 27.  
 Desc. gradually over rolling land, covered with greasewood and yellowtop.  
 40.00 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;  
      $\frac{1}{2}$  in N.,  
     S26 in E., and  
     S27 in W. half; and  
     raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
 55.00 Outcrop of sandstone ledge, bears E. and W.  
 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. 22, 23, 26, and 27, marked on brass cap  
     1914 on S. rim;  
     T39NR4W in N. half;  
     S22 in NW.,  
     S23 in NE.,  
     S26 in SE., and  
     S27 in SW. quadrant; and  
     raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
 Soil, red sandy gravel and stone, with bedrock close to surface.  
 Land, rolling.  
 No timber.  
 Undergrowth, yellowtop and greasewood.  
 Poor grazing.  
 Rainy in afternoon. Noon observation for latitude impracticable.

July 24, 1914.

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 July 25, 1914.  
 S. 89° 57' E., on a random line, bet. secs. 23 and 26.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 79.95 Intersect the N. and S. line, at the cor. of secs. 23, 24, 25, and 26.  
 Thence I run  
 N. 89° 57' W., on a true line, bet. secs. 23 and 26.  
 Asc. gradually over rolling land, covered with yellowtop and greasewood.  
 39.97 $\frac{1}{2}$  Set an iron post, 3 ft. long, 1 in. diam., 12 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;  
     S23 in N.,  
     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.  
 53.50 Low ridge, 50 ft. above  $\frac{1}{4}$  sec. cor., bears NE. and SW.; desc. gradually.  
 79.95 The cor. of secs. 22, 23, 26, and 27.  
 Land, rolling.  
 Soil, red sandy gravel and stone, with bedrock close to surface.  
 No timber.  
 Undergrowth, yellowtop and greasewood.  
 Poor grazing.

July 25, 1914.

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 July 27, 1914: At the cor. of secs. 22, 23, 26, and 27, I set off 19° 18' 00" N. on the decl. arc; and, at apparent noon, observe the sun on the meridian; the resulting lat. is 36° 45' 30" N.

8. Subdivision of T. 39 N., R. 4 W.

Chains Thence I run  
N. 0° 1' W., bet. secs. 22 and 23.  
Over rolling land, covered with greasewood and yellowtop.  
12.00 Wash, in hollow, 15 lks. wide, 4 ft. deep, drains NE. 10  
chs., thence N.; asc. gradually.  
15.00 Top of ascent, 20 ft. above wash, bears NE. and SW.; desc.  
gradually.  
40.00 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the  
ground, to bedrock, surrounded by a mound of stone, for  
¼ sec. cor., marked on brass cap 1914 on S. rim  
¼ in N.,  
S23 in E., and  
S22 in W. half; and  
raise a mound of stone, 2 ft. base, 1½ ft. high, W. of  
cor. Pits impracticable.  
47.50 Wash, 10 lks. wide, 6 ft. deep, drains NE.; asc. gradually  
75.00 Outcrop of sandstone ledge, bears NE. and SW.  
80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the  
ground, for cor. of secs. 14, 15, 22, and 23, marked on  
brass cap  
1914 on S. rim;  
T39NR4W in N. half;  
S15 in NW.,  
S14 in NE.,  
S23 in SE., and  
S22 in SW. quadrant; and  
raise a mound of stone, 2 ft. base, 1½ ft. high, W. of  
cor. Pits impracticable.  
Land, broken and hilly, drains NE.  
Soil, red sandy gravel, rocky, broken by outcropping sand-  
stone. Subsoil, red sandy gravel and bedrock.  
No timber.  
Undergrowth, greasewood and yellowtop.

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40.00 S. 89° 57' E., on a random line, bet. secs. 14 and 23.  
Set temp. ¼ sec. cor.  
79.98 Intersect the N. and S. line, 2 lks. S. of the cor. of  
secs. 13, 14, 23, and 24,  
Thence I run  
N. 89° 58' W., on a true line, bet. secs. 14 and 23.  
Over rolling land, covered with greasewood and yellowtop.  
20.00 Sandstone ledge, 50 ft. high, bears N. and S.  
32.75 Wash, 30 lks. wide, 3 ft. deep, drains N. about 12 chs.,  
thence N. 70° E.; asc. abruptly.  
35.00 Sandstone ledge, 25 ft. high, bears N. and SW.; asc. grad-  
ually.  
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;  
S14 in N.,  
S23 in S., and  
¼ in W. half; and  
raise a mound of stone, 2 ft. base, 1½ ft. high, N. of  
cor. Pits impracticable.  
65.25 Road, bears N. and S.  
68.00 Outcrop of sandstone ledge, bears NE. and SW.  
79.98 The cor. of secs. 14, 15, 22, and 23.  
Land, broken and hilly, drains NE.  
Soil, red sandy gravel, rocky, broken by outcropping sand-  
stone ledges. Subsoil, red sandy gravel and bedrock.  
No timber.  
Undergrowth, greasewood and yellowtop.  
July 27, 1914.

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July 28; 1914: At the cor. of secs. 14, 15, 22, and 23,  
I set off 36° 46' N. on the lat. arc; 19° 3' N. on the  
decl. arc; and, at 2h 6m p. m., 1. m. t., determine a  
meridian with the solar.  
Thence I run

Chains N. 0° 1' W., bet. secs. 14 and 15.  
 Desc. gradually over rolling land.

25.00 Road, from Bull Rush to head of Hack's canyon, bears NE. and SW.

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.,  
 S14 in E., and  
 S15 in W. half; and  
 raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.

50.00 Start abrupt descent, bears E. and W.

51.00 Bull Rush wash, in canyon, 40 ft. below top, 40 lks. wide, 10 ft. deep, drains E.; asc. gradually over sandy canyon bottom.

65.00 N. side canyon bottom, bears E. and W.; asc. abruptly.

75.00 N. rim Bull Rush canyon, 35 ft. high, bears E. and W.; desc. gradually.

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. 10, 11, 14, and 15, marked on brass cap  
 1914 on S. rim;  
 T39NR4W in N. half;  
 S10 in NW.,  
 S11 in NE.,  
 S14 in SE., and  
 S15 in SW. quadrant; and  
 raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.

Land, broken and hilly.  
 Soil, red sandy gravel, rocky, broken by outcropping sandstone. Subsoil, red sandy gravel and bedrock.  
 No timber.  
 Undergrowth, greasewood and yellowtop.

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40.00 S. 89° 58' E., on a random line, bet. secs. 11 and 14.  
 Set temp. 1/4 sec. cor.

79.99 Intersect the N. and S. line, 5 lks. S. of the cor. of secs. 11, 12, 13, and 14.  
 Thence I run  
 West, on a true line, bet. secs. 11 and 14.  
 Over rolling land, through greasewood and yellowtop.

39.99 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;  
 S11 in N.,  
 S14 in S., and  
 1/4 in W. half; and  
 raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Pits impracticable.

Continue gradual descent.

44.00 Road from Fredonia to Bull Rush, bears NE. and SW.

54.00 Wash, 10 lks. wide, 5 ft. deep, drains S.; asc.

58.50 Top of ascent, bears N. and S., 20 ft. above wash; desc.

64.50 Bottom of N. side of Bull Rush canyon, 40 ft. below top, bears N. and S.; asc. gradually.

65.70 Top of N. side Bull Rush canyon, bears N. and S.; asc. gradually along N. rim.

67.00 Corral bears S. 2 chs., under rim of canyon.

79.99 The cor. of secs. 10, 11, 14, and 15.  
 Land, rolling and broken, drains S. into Bull Rush wash.  
 Soil, red sandy loam and gravel. Subsoil, red sandy loam and rock.  
 No timber.  
 Undergrowth, yellowtop and greasewood.

July 28, 1914.

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August 3, 1914: At the cor. of secs. 10, 11, 14, and 15,

10.

Subdivision of T. 39 N., R. 4 W.

Chains	<p>I set off <math>17^{\circ} 36'</math> N. on the decl. arc; and, at apparent noon, observe the sun on the meridian; the resulting lat. is <math>36^{\circ} 47'</math> N.</p> <p>Thence I run N. <math>0^{\circ} 1'</math> W., bet. secs. 10 and 11. Over rolling land, covered with scattering greasewood and yellowtop.</p> <p>40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for <math>\frac{1}{4}</math> sec. cor., marked on brass cap 1914 on S. rim; <math>\frac{1}{4}</math> in N., S11 in E., and S10 in W. half; dig pits, <math>18 \times 18 \times 12</math> ins., N. and S. of post, 3 ft. dist. and raise a mound of earth, <math>3\frac{1}{2}</math> ft. base, <math>1\frac{1}{2}</math> ft. high, W. of cor.</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; T39NR4W in N. half; S3 in NW., S2 in NE., S11 in SE., and S10 in SW. quadrant; dig pits, <math>18 \times 18 \times 12</math> ins., in each sec., <math>5\frac{1}{2}</math> ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.</p> <p>Land, gently rolling, drains SE. Southern exposure. Soil, light red sandy loam of medium texture; subsoil, fine red gravel. Undergrowth, short greasewood and yellowtop. Good grazing.</p>
40.00	East, on a random line, bet. secs. 2 and 11.
79.95	Set temp. $\frac{1}{4}$ sec. cor. Intersect the N. and S. line, 14 lks. N. of the cor. of secs. 1, 2, 11, and 12.
39.97 $\frac{1}{2}$	<p>Thence I run N. <math>89^{\circ} 54'</math> W., on a true line, bet. secs. 2 and 11. Over gently rolling land, through yellowtop and shad scale</p> <p>Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground, to bedrock, surrounded by a mound of earth, for <math>\frac{1}{4}</math> sec. cor., marked on brass cap 1914 on S. rim; S2 in N., S11 in S., and <math>\frac{1}{4}</math> in W. half; dig pits, <math>18 \times 18 \times 12</math> ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, <math>3\frac{1}{2}</math> ft. base, <math>1\frac{1}{2}</math> ft. high, N. of cor.</p>
79.95	<p>The cor. of secs. 2, 3, 10, and 11. Land, gently rolling, drains SE. Southern exposure. Soil, light red sandy loam of medium texture; subsoil, fine red gravel. Undergrowth, short greasewood and yellowtop. Good grazing.</p>
40.00	<p>N. <math>0^{\circ} 1'</math> W., on a true line, bet. secs. 2 and 3. (The flag on the cor. of secs. 2, 3, 34, and 35 being plainly visible from the cor. of secs. 2, 3, 10, and 11.) Over gently rolling land.</p> <p>Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for <math>\frac{1}{4}</math> sec. cor., marked on brass cap 1914 on S. rim; <math>\frac{1}{4}</math> in N., S2 in E., and S3 in W. half; dig pits, <math>18 \times 18 \times 12</math> ins., N. and S. of post, 3 ft. dist.;</p>

Subdivision of T. 39 N., R. 4 W.

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

80.02 The cor. of secs. 2, 3, 34, and 35, Ts. 39 and 40 N., R. 4.W.  
 Land, gently rolling, drains SE.  
 Soil, sandy loam. Subsoil, sandy loam.  
 Undergrowth, scattering greasewood and yellowtop.  
 Fair Grazing.  
 No timber.

August 3, 1914.

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July 24, 1914: At the cor. of secs. 3, 4, 33, and 34, on the S. bdy. of the T., I set off  $36^{\circ} 44'$  N. on the lat. arc;  $19^{\circ} 59'$  N. on the decl. arc; and, at 8h 21m a. m., 1. m. t., determine a meridian with the solar.

Thence I run  
 N.  $0^{\circ} 2'$  W., bet. secs. 33 and 34.  
 Over rolling land, draining NE., through greasewood and yellowtop.

6.00 Low spur, projecting NE.; desc. gradually.  
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 12 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.,  
 S34 in E., and  
 S33 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 and stone,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the ground, to bedrock, surrounded by a mound of stone, for the cor. of secs. 27, 28, 33, and 34, marked on brass cap  
 1914 on S. rim;  
 T39NR4W in N. half;  
 S28 in NW.,  
 S27 in NE.,  
 S34 in SE., and  
 S33 in SW. quadrant; and  
 raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
 Land, rolling, drains NE.  
 Soil, coarse light red sand and gravel, with bedrock close to surface.  
 No timber.  
 Undergrowth, greasewood and yellowtop.  
 Poor grazing.

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40.00 East, on a random line, bet. secs. 27 and 34.  
 Set temp.  $\frac{1}{4}$  sec. cor.  
 79.96 Intersect the N. and S. line, 2 lks. S. of the cor. of secs. 26, 27, 34, and 35,  
 Thence I run  
 S.  $89^{\circ} 59'$  W., on a true line, bet. secs. 27 and 34.  
 Asc. gradually over rolling land, covered with greasewood and yellowtop.

15.00 Low spur, projecting NE.; desc. gradually.  
 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;  
 S27 in N.,  
 S34 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.

50.00 E. edge of small canyon, bears NE. and SW.  
 53.50 Wash in bottom of small canyon, 40 ft. deep, 10 lks. wide;

12.

Subdivision of T. 39 N., R. 4 W.

- Chains wash 6 ft. deep; asc.  
 54.00 Road, Bull Rush to head of Hack's Canyon, bears NE. and SW.
- 55.00 W. edge of small canyon, bears NE. and SW.; asc. gradually  
 79.96 The cor. secs. 27, 28, 33, and 34.  
 Land, hilly.  
 Soil, outcropping sandstone and sandy loam. Subsoil, sandstone bedrock, red sandy loam, and clay.  
 No timber.  
 Undergrowth, greasewood and yellowtop.  
 July 24, 1914.
- 
- July 27, 1914.  
 N. 0° 2' W., bet. secs. 27 and 28.  
 Desc. gradually over rolling land, through greasewood and yellowtop undergrowth.
- 7.00 Wash, 10 lks. wide, 4 ft. deep, drains NE.; asc. gradually  
 20.00 Ridge, 40 ft. above wash, bears NE. and SW.; desc. 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.,  
 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,  $3\frac{1}{2}$  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. 21, 22, 27, and 28, marked on brass cap  
 1914 on S. rim;  
 T39NR4W in N. half;  
 S21 in NW.,  
 S22 in NE.,  
 S27 in SE., and  
 S28 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, hilly; drains NE.  
 Soil, red sandy loam. Subsoil, red sandy loam and gravel.  
 No timber.  
 Undergrowth, greasewood and yellowtop.
- 
- N. 89° 59' E., on a random line, bet. secs. 22 and 27.
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 80.03 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 greasewood and yellowtop undergrowth.
- 6.50 Wash, 15 lks. wide, 3 ft. deep, drains NE.; asc. gradually  
 21.00 Ridge, 50 ft. above wash, bears N. 35° E. and SW.; desc. gradually.
- 26.50 Wash, 10 lks. wide, 4 ft. deep, drains N. 35° E.; asc. gradually.
- 34.60 Dim road, bears NE. and SW.  
 37.50 Low ridge, bears NE. and SW.; desc. gradually.
- 40.01 $\frac{1}{2}$  Set an iron post, 3 ft. long, 1 in. diam., 12 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;  
 S22 in N.,  
 S27 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.
- 45.00 Wash, 5 lks. wide, 3 ft. deep, drains N.; asc. gradually.

Chains  
80.03

The cor. of secs. 21, 22, 27, and 28.  
Soil, red sandy loam, with outcropping sandstone.  
No timber.  
Undergrowth, greasewood and yellowtop.  
Fair grazing.

July 27, 1914.

-----  
July 28, 1914.  
N. 0° 2' W., bet. secs. 21 and 22.  
Over rolling land; through greasewood and yellowtop under-  
growth.

5.50  
40.00

Road, from Bull Rush to head of Hack's canyon, bears NE.  
and SW.  
Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the  
ground, to bedrock, surrounded by a mound of stone,  
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 and stone, 3½ ft. base, 1½  
ft. high, W. of cor.

July 28, 1914: At this cor., I set off 19° 04' N. on the  
decl. arc; and, at apparent noon, observe the sun on  
the meridian; the resulting lat. is 36° 46' N.

80.00

Descend gradually.  
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;  
T39NR4W 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, descending gradually to the north.  
Soil, red sandy loam. Subsoil, red sandy loam and gravel.  
No timber.  
Undergrowth, yellowtop and scattering greasewood and shad  
scale.  
Fair grazing.

40.00  
80.04

-----  
East, on a random line, bet. secs. 15 and 22.  
Set temp. ¼ sec. cor.  
Intersect the N. and S. line, 2 lks. S. of the cor. of  
secs. 14, 15, 22, and 23.

Thence I run  
S. 89° 59' W., on a true line, bet. secs. 15 and 22.  
Over rolling land, through greasewood and yellowtop.

10.50

Road, Bull Rush to head of Hack's canyon, bears NE. and  
SW.

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;  
S15 in N.,  
S22 in S., and  
¼ in W. half; and  
raise a mound of stone, 2 ft. base, 1½ ft. high, N. of  
cor. Pits impracticable.

80.04

The cor. of secs. 15, 16, 21, and 22.  
Land, gently rolling, descending gradually to the north.  
Soil, red sandy loam. Subsoil, red sandy loam and gravel.  
Undergrowth, yellowtop and scattering greasewood and shad  
scale.

Fair grazing. July 28, 1914.

14. Subdivision of T. 39 N., R. 4 W.

Chains July 30, 1914:  
 N. 0° 2' W., bet. secs. 15 and 16.  
 Desc. gradually over rolling land, through greasewood, sagebrush, and yellowtop.

14.50 S. edge Bull Rush canyon, 30 ft. deep, bears N. 70° E. and S. 70° W.; continue across bottom of canyon.

16.25 Bull Rush wash, 35 lks. wide, 9 ft. deep, drains N. 70° E.

33.50 N. edge of canyon bottom, bears N. 70° W. and S. 70° W.; asc. abruptly 30 ft., thence 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.,  
 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,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

80.00 Asc. over series of small washes, draining SE.  
 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;  
 T39NR4W in N. half;  
 S9 in NW.,  
 S10 in NE.,  
 S15 in SE., and  
 S16 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 and hilly; drains into Bull Rush wash.  
 Soil, sandy loam. Subsoil, sandy loam and clay.  
 Undergrowth, yellowtop and sagebrush, with shad scale in the north half mile.  
 No timber.  
 Fair grazing.

July 30, 1914: I set off 36° 47' N. on the lat. arc; 18° 34' N. on the decl. arc; and, at 3h 6m p. m., 1. m. t., determine a meridian with the solar.

Thence I run  
 N. 89° 59' E., on a random line, bet. secs. 10 and 15.

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

80.04 Intersect the N. and S. line, 2 lks. S. of the cor. of secs. 10, 11, 14, and 15.

Thence I run  
 S. 89° 58' W., on a true line, bet. secs. 10 and 15.  
 Desc. gradually over rolling land, covered with greasewood and yellowtop.

40.02 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap  
 1914 on S. rim;  
 S10 in N.,  
 S15 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.

60.00 Wash, 40 lks. wide, 10 ft. deep, drains SE.; asc. gradually.

80.04 The cor. of secs. 9, 10, 15, and 16.  
 Land, gently rolling and hilly; drains into Bull Rush wash.  
 Soil, sandy loam. Subsoil, sandy loam and clay.  
 Undergrowth, scattering yellowtop and greasewood.  
 Fair grazing.  
 No timber.

July 30, 1914.



Chains August 3, 1914.  
 N. 0° 2' W., bet. secs. 9 and 10.  
 Over rolling land, covered with greasewood and yellowtop.  
 26.00 Wash, 50 lks. wide, 20 ft. deep, drains S. 50° 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.,  
 S10 in E., and  
 S9 in W. half;  
 dig pits, 18x13x12 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. 3, 4, 9, and 10, marked  
 on brass cap  
 1914 on S. rim;  
 T39NR4W in N. half;  
 S4 in NW.,  
 S3 in NE.,  
 S10 in SE., and  
 S9 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 and level; drains SE.  
 Soil and subsoil of sandy loam.  
 Undergrowth, scattering yellowtop and sagebrush.  
 No timber.  
 Fair grazing.

-----  
 N. 89° 58' E., on a random line, bet. secs. 3 and 10.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 80.14 Intersect the N. and S. line, 5 lks. N. of the cor. of  
 secs. 2, 3, 10, and 11.  
 Thence I run  
 West, on a true line, bet. secs. 3 and 10.  
 Over gently rolling land, through shad scale and yellow-  
 top.  
 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;  
 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.  
 80.14 The cor. of secs. 3, 4, 9, and 10.  
 Land, gently rolling and level, drains SE.  
 Soil, sandy loam and clay. Subsoil, sandy loam and clay,  
 exceptionally hard in dry weather.  
 Undergrowth, yellowtop and shad scale.  
 Fair grazing.  
 No timber.  
 August 3, 1914.

-----  
 August 4, 1914: At the cor. of secs. 3, 4, 9, and 10, I  
 set off  $36^{\circ}48'$  N. on the lat. arc;  $17^{\circ}18'$  N. on the  
 decl. arc; and, at 3h 6m p. m., l. m. t., determine a  
 meridian with the solar.  
 Thence I run  
 N. 0° 2' W., on a random line, bet. secs. 3 and 4.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 80.16 Intersect the N. bdy. of the T., 17 lks. W. of the cor.  
 of secs. 3, 4, 33, and 34.  
 Thence I run  
 S. 0° 5' W., on a true line, bet. secs. 3 and 4.  
 Over rolling land, through shad scale and yellowtop.

## 16. Subdivision of T. 39 N., R. 4 W.

- Chains  
40.16 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap  
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.
- 80.16 The cor. of secs. 3, 4, 9, and 10.  
Land, gently rolling; drains S.  
Soil, light red sandy loam and disintegrated limestone.  
Subsoil, red sandy loam and disintegrated limestone.  
Undergrowth, yellowtop and shad scale.  
Fair grazing.  
No timber.
- August 4, 1914.
- 
- July 27, 1914.  
From the cor. of secs. 4, 5, 32, and 33, on the S. bdy. of the T., I run  
N.  $00^{\circ}3'$  W., bet. secs. 32 and 33.  
Desc. gradually over rolling land, covered with greasewood 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;  
T39NR4W in N. half;  
S29 in NW.,  
S28 in NE.,  
S33 in SE., and  
S32 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.  
Soil, light red sandy loam of medium texture, with subsoil of fine red gravel and bedrock close to surface.  
Undergrowth, greasewood and yellowtop.  
Fair grazing.  
No timber.
- 
- 40.00 East, on a random line, bet. secs. 28 and 33.  
Set temp.  $\frac{1}{4}$  sec. cor.
- 80.09 Intersect the N. and S. line, 5 lks. N. of the cor. of secs. 27, 28, 33, and 34.  
Thence I run  
N.  $89^{\circ}58'$  W., on a true line, bet. secs. 28 and 33.  
Desc. gradually over rolling land, covered with greasewood and yellowtop.
- 8.50 Small wash, 5 lks. wide, 1 ft. deep, drains NE.
- 40.04 $\frac{1}{2}$  Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground, to bedrock, surrounded by a mound of stone and earth, for  $\frac{1}{4}$  sec. cor., marked on brass cap  
1914 on S. rim;  
S28 in N.,  
S33 in S., and  
 $\frac{1}{4}$  in W. half;  
dig pits, 18x18x12 ins., E. and W. of post, 3 ft.

Chains dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.

80.09 The cor. of secs. 28, 29, 32, and 33.  
 Land, rolling.  
 Soil, red sandy loam; subsoil, red gravel.  
 No timber.  
 Undergrowth, greasewood and yellowtop.  
 Fair grazing.

July 27, 1914.

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July 28, 1914.  
 N. 0° 3' W., bet. secs. 28 and 29.  
 Desc. gradually over rolling land, covered with greasewood and yellowtop.

10.00 Dim road, bears NE. and SW.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground, to bedrock, surrounded by a mound of earth, for ¼ sec. cor., marked on brass cap  
 1914 on S. rim;  
 ¼ 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, 3½ ft. base, 1½ ft. high, W. of cor.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the ground, to bedrock, surrounded by a mound of earth and stone, for the cor. of secs. 20, 21, 28, and 29, marked on brass cap  
 1914 on S. rim;  
 T39NR4W 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, rolling and drains NE.  
 Soil, red sandy loam; subsoil, red sandy loam and clay, with bedrock about 8 ins. below surface.  
 No timber.  
 Undergrowth, yellowtop and scattering greasewood.  
 Fair grazing.

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40.00 S. 89° 58' E., on a true line, bet. secs. 21 and 28.  
 Set temp. ¼ sec. cor.

80.07 Intersect the N. and S. line, 11 lks. S. of the cor. of secs. 21, 22, 27, and 28.  
 Thence I run  
 S. 89° 57' W., on a true line, bet. secs. 21 and 28.  
 Asc. gradually over rolling land, through shad scale and yellowtop.

4.00 Road, from Bull Rush to head of Hack's canyon, bears NE. and S. 65° W.

40.03½ Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground, to bedrock, surrounded by a mound of stone, for ¼ sec. cor., marked on brass cap  
 1914 on S. rim;  
 S21 in N.,  
 S28 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. 20, 21, 28, and 29.  
 Land, rolling; drains N.  
 Soil, red sandy loam and gravel; subsoil, red sandy gravel, loam, and bedrock.  
 No timber.  
 Undergrowth, yellowtop and shad scale. July 28, 1914.

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18.

Subdivision of T. 39 N., R. 4 W.

- Chains July 30, 1914.  
N.  $0^{\circ} 3'$  W., bet. secs. 20 and 21.  
Over gently rolling land, covered with yellowtop and white sage.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 12 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;  
 $\frac{1}{2}$  in N.,  
S21 in E., and  
S20 in W. half; and  
raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.
- 41.50 S. edge Bull Rush canyon, bears E. and W.; desc.
- 43.00 The bottom of Bull Rush canyon, 20 ft. below top, bears E. and W.
- 55.50 Bull Rush wash, 40 lks. wide, 8 ft. deep, drains E.
- 75.00 N. edge Bull Rush canyon, 20 ft. above bottom, bears E. and W.
- 80.00 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 cor. of secs. 16, 17, 20, and 21, marked on brass cap  
1914 on S. rim;  
T39NR4W in N. half;  
S17 in NW.,  
S16 in NE.,  
S21 in SE., and  
S20 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 and hilly; drains into Bull Rush canyon.  
Soil, sandy loam and gravel. Subsoil, sandy loam 18 ins. deep on bedrock.  
Undergrowth, yellowtop and greasewood.  
No timber.  
Fair grazing.
- 
- N.  $89^{\circ} 57'$  E., on a random line, bet. secs. 16 and 21.
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 80.03 Intersect the N. and S. line, 7 lks. N. of the cor. of secs. 15, 16, 21, and 22.  
Thence I run  
West, on a true line, bet. secs. 16 and 21.  
Over gently rolling land, through shad scale and yellowtop; desc. gradually.
- 5.00 SE. edge of Bull Rush canyon, bears N.  $70^{\circ}$  E. and S.  $70^{\circ}$  W.; continue over numerous small washes.
- 37.00 Bull Rush wash, 35 lks. wide, 9 ft. deep, drains N.  $70^{\circ}$  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;  
S16 in N.,  
S21 in S., and  
 $\frac{1}{2}$  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 NW. edge of Bull Rush canyon, bears N.  $70^{\circ}$  E. and S.  $70^{\circ}$  W., 30 ft. above wash.
- 80.03 The cor. of secs. 16, 17, 20, and 21.  
Land, rolling and hilly.  
Soil, sandy loam in gravel. Subsoil, sandy loam and gravel.  
No timber.  
Undergrowth, yellowtop and shad scale.  
Fair grazing.  
Showery. Noon observation for lat. impracticable.  
July 30, 1914.
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Chains July 31, 1914.  
 N. 0° 3' W., bet. secs. 16 and 17.  
 Over gently rolling land, through shad scale undergrowth.  
 24.00 Wash, 30 lks. wide, 4 ft. deep, drains SE.  
 33.00 Wash, 30 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.,  
 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,  $3\frac{1}{2}$  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. 8, 9, 16, and 17, marked  
 on brass cap  
 1914 on S. rim;  
 T39NR4W in N. half;  
 S8 in NW.,  
 S9 in NE.,  
 S16 in SE., and  
 S17 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, level; drains SE.  
 Soil and subsoil, sandy loam.  
 Undergrowth, shad scale and, in north  $\frac{1}{2}$  mile, sagebrush.  
 No timber.  
 Fair grazing.

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 July 31, 1914: I set off 36° 47' N. on the  
 lat. arc; 18° 20' N. on the decl. arc; and, at 3h 6m  
 p. m., 1. m. t., determine a meridian with the solar.  
 Thence I run  
 East, on a random line, bet. secs. 9 and 16.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 79.97 Intersect the N. and S. line, 13 lks. S. of the cor. of  
 secs. 9, 10, 15, and 16.  
 Thence I run  
 S. 89° 54' W., on a true line, bet. secs. 9 and 16.  
 Over gently rolling land, through shad scale undergrowth.  
 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;  
 S9 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.  
 79.97 The cor. of secs. 8, 9, 16, and 17.  
 Land, level; drains SE.  
 Soil and subsoil, sandy loam.  
 Undergrowth, shad scale.  
 No timber.  
 Fair grazing.

July 31, 1914.

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 August 4, 1914: I set off 17° 20' N. on the  
 decl. arc; and, at apparent noon, observe the sun on  
 the meridian; the resulting lat. is 36° 47' N.  
 Thence I run  
 N. 0° 3' W., bet. secs. 8 and 9.  
 Over rolling land, through shad scale and greasewood un-  
 dergrowth.  
 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

20.

Subdivision of T. 39 N., R. 4 W.

Chains	1914 on S. rim; $\frac{1}{4}$ in N., S9 in E., and S8 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.
60.50	Wash, 75 lks. wide, 15 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. 4, 5, 8, and 9, marked on brass cap 1914 on S. rim; T39NR4W in N. half; S5 in NW., S4 in NE., S9 in SE., and S8 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 and level; drains SE. Soil, light red sandy loam. Subsoil, dark red sandy loam. Undergrowth, shad scale and greasewood. No timber. Fair grazing.
-----	
40.00	N. $89^{\circ} 54'$ E., on a random line, bet. secs. 4 and 9. Set temp. $\frac{1}{4}$ sec. cor.
79.99	Intersect the N. and S. line, 13 lks. N. of the cor. of secs. 3, 4, 9, and 10. Thence I run West, on a true line, bet. secs. 4 and 9. Over gently rolling land, through shad scale and yellow- top.
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; 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.
79.99	The cor. of secs. 4, 5, 8, and 9. Land, gently rolling; drains S, Soil, light red sandy loam; subsoil, dark red sandy loam. Undergrowth, yellowtop and shad scale. Fair grazing. No timber.
August 4, 1914.	
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August 5, 1914.	
40.00	N. $0^{\circ} 3'$ W., on a random line, bet. secs. 4 and 5. Set temp. $\frac{1}{4}$ sec. cor.
80.30	Intersect the N. bdy. of the T., at the cor. of secs. 4, 5, 32, and 33. Thence I run S. $0^{\circ} 3'$ E., on a true line, bet. secs. 4 and 5. Over rolling land, through shad scale and greasewood.
40.30	Set an iron post, 3 ft. long, 1 in. diam., 12 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., S4 in E., and S5 in W. half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
43.00	S. edge of bench, bears E. and W.; desc.

Chains

45.50

Base of descent, 25 ft. below top, bears E. and W.; desc. gradually.

80.30

The cor. of secs. 4, 5, 8, and 9.  
Soil, sandy loam, disintegrated limestone, and shale.  
Undergrowth, shad scale and scattering sagebrush and greasewood.  
No timber.  
Fair grazing.

August 5, 1914.

July 29, 1914: At the cor. of secs. 5, 6, 31, and 32, Ts. 38 and 39 N., R. 4 W., I set off 36° 44' N. on the lat. arc; 18° 53' N. on the decl. arc; and, at 8h 6m a. m., l. m. t., determine a meridian with the solar.

Thence I run

N. 0° 3' W., bet. secs. 31 and 32.

40.00

Over gently rolling land, through greasewood and yellowtop.  
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

Set an iron post, 3 ft. long, 2 ins. diam., 20 ins. in the ground, to bedrock, surrounded by a mound of earth, for the cor. of secs. 29, 30, 31, and 32, marked on brass cap

1914 on S. rim;

T39NR4W 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.

Soil, fine gravel and sandy, on subsoil of dark clay, with bedrock close to surface.

Undergrowth, greasewood and yellowtop with scattering white sagebrush.

No timber.

Good grazing.

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

40.00

Set temp. 1/4 sec. cor.

79.93

Intersect the N. and S. line, 2 lks. N. of the cor. of secs. 28, 29, 32, and 33.

Thence I run

N. 89° 59' W., on a true line, bet. secs. 29 and 32.

Over gently rolling land, draining N. into Bull Rush wash, cut by numerous small drains.

14.00

Road from Bull Rush to Hack's canyon, bears NE. and SW.

39.96 1/2

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;

S39 in N.,

S32 in S., and

1/4 in W. half; and

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

79.93

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

Land, gently rolling.

Soil, sandy gravel with outcropping bedrock. Subsoil,

22.

Subdivision of T. 39 N., R. 4 W.

Chains bedrock and some clay.  
Undergrowth, yellowtop and shad scale.  
No timber.  
Good grazing.

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West, on a random line, bet. secs. 30 and 31.  
40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
78.95 Intersect the W. bdy. of the T., 7 lks. S. of the cor.  
of secs. 25, 30, 31, and 36.  
Thence I run  
S.  $89^{\circ}57'$  E., on a true line, bet. secs. 30 and 31.  
Over rolling land, through yellowtop undergrowth.  
15.00 Start gradual descent, bears NE. and SW.  
24.00 Bull Rush wash, 40 lks. wide, 12 ft. deep, drains N.  $70^{\circ}$   
E.; continue across bottom over numerous small washes  
caused by overflow from Bull Rush wash.  
29.00 Edge of flat, bears N.  $70^{\circ}$  E. and SW.; asc. slightly.  
38.95 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;  
S30 in N.,  
S31 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.  
78.95 The cor. of secs. 29, 30, 31, and 32.  
Land, gently rolling.  
Soil, gravel and sandy loam, with clay and outcropping  
bedrock; subsoil, bedrock.  
Undergrowth, yellowtop and greasewood.  
No timber.  
Fair grazing.

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July 29, 1914: I set off  $18^{\circ}50'$  N. on the  
decl. arc; and, at apparent noon, observe the sun on  
the meridian; the resulting lat. is  $36^{\circ}44'30''$  N.  
Thence I run  
N.  $0^{\circ}3'$  W., bet. secs. 29 and 30.  
Over rolling land, through greasewood and shad scale un-  
dergrowth.  
9.00 S. edge of Bull Rush canyon, bears E. and W.; desc.  
19.00 Bottom of canyon, 20 ft. below top, bears E. and W.  
30.50 Bull Rush wash, 40 lks. wide, 8 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.,  
S29 in E., and  
S30 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.  
42.50 N. side of canyon bottom, bears E. and W.; asc. abruptly.  
45.00 Top of canyon slope, 30 ft. above bottom, bears E. and W.  
80.00 Set an iron post, 3 ft. long, 2 ins. diam., 18 ins. in  
the ground, to bedrock, surrounded by a mound of earth  
and stone, for the cor. of secs. 19, 20, 29, and 30,  
marked on brass cap  
1914 on S. rim;  
T39NR4W in N. half;  
S19 in NW.,  
S20 in NE.,  
S29 in SE., and  
S30 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, hilly and rolling.



Chains Soil, sandy loam and gravel, mixed with clay; subsoil, bedrock, sandy loam, and clay.  
Undergrowth, greasewood, yellowtop, and some shad scale.  
No timber.  
Fair grazing.

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40.00 S. 89° 59' E., on a random line, bet. secs. 20 and 29.  
79.87 Set temp. ¼ sec. cor.,  
Intersect the N. and S. line, 9 lks. N. of the cor. of  
secs. 20, 21, 28, and 29.  
Thence I run  
N. 89° 55' W., on a true line, bet. secs. 20 and 29.  
Desc. gradually over rolling land, through greasewood  
and yellow top.  
39.93½ 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;  
S20 in N.,  
S29 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.  
This cor. is established on the S. edge of Bull Rush can-  
yon.  
46.00 Bull Rush wash, 35 lks. wide, 8 ft. deep, rains N. 80° E.,  
30 ft. below top.  
56.00 N. side Bull Rush canyon bottom, 30 ft. above wash, bears  
N. 70° E. and S. 70° W.; asc. gradually.  
79.87 The cor. of secs. 19, 20, 29, and 30.  
Soil, sandy loam and gravel, mixed with clay; subsoil,  
bedrock, sandy loam, and clay.  
Undergrowth, greasewood, yellowtop, and some shad scale.  
No timber.  
Fair grazing.

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40.00 N. 89° 57' W., on a random line, bet. secs. 19 and 30.  
78.73 Set temp. ¼ sec. cor.  
Intersect the W. bdy. of the T. 7 lks. S. of the cor. of  
secs. 19, 24, 25, and 30.  
Thence I run  
S. 89° 54' E., on a true line, bet. secs. 19 and 30.  
Over rolling land, through greasewood and yellowtop.  
38.73 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;  
S19 in N.,  
S30 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.  
78.73 The cor. of secs. 19, 20, 29, and 30.  
Land, rolling, drains S.  
Soil, sandy loam and gravel. Subsoil, sandy loam and  
clay.  
Undergrowth, yellowtop and some greasewood.  
No timber.  
Fair grazing.

July 29, 1914.

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40.00 July 31, 1914.  
N. 0° 3' W., bet. secs. 19 and 20.  
Over gently rolling land, through greasewood, sagebrush,  
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

24. Subdivision of T. 39 N., R. 4 W.

Chains 1914 on S. rim;  
 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 1/2 ft. base, 1 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;  
 T39NR4W 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 1/2 ft. dist.;  
 and raise a mound of earth, 4 ft. base, 2 ft. high,  
 W. of cor.

Land, gently rolling and flat; drains SE.  
 Soil, sandy loam and gravelly. Subsoil, sandy loam.  
 Undergrowth, yellowtop and sage in south half mile; scat-  
 tering in north half mile.  
 No timber.  
 Good grazing.

40.00 S. 89° 55' E., on a random line, bet. secs. 17 and 20.  
 Set temp. 1/4 sec. cor.

79.99 Intersect the N. and S. line, at the cor. of secs. 16, 17,  
 20, and 21.  
 Thence I run  
 N. 89° 55' W., on a true line, bet. secs. 17 and 20.  
 Over gently rolling land, through greasewood and yellow-  
 top.

39.99 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;  
 S17 in N.,  
 S20 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.

July 31, 1914: At this cor., I set off 18° 21' N. on the  
 decl. arc; and, at apparent noon, observe the sun on  
 the meridian; the resulting lat. is 36° 46' N.

79.99 The cor. of secs. 17, 18, 19, and 20.  
 Land, gently rolling; drains SE.  
 Soil, sandy loam; subsoil, sandy loam.  
 Undergrowth, scattering yellowtop.  
 No timber.  
 Good grazing.

40.00 N. 89° 54' W., on a random line, bet. secs. 18 and 19.  
 Set temp. 1/4 sec. cor.

78.71 Intersect the W. bdy. of T., 11 lks. S. of the cor. of  
 secs. 13, 18, 19, and 24.  
 Thence I run  
 S. 89° 49' E., on a true line, bet. secs. 18 and 19.  
 Over gently rolling land, through greasewood and yellow-  
 top.

38.71 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;  
 S18 in N.,  
 S19 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,

Chains  
78.71

N. of cor.  
The cor. of secs. 17, 18, 19, and 20.  
Land, gently rolling; drains SE.  
Soil, sandy loam and some gravel. Subsoil, sandy loam.  
Undergrowth, scattering yellowtop.  
Good grazing.

July 31, 1914.

August 4, 1914.

N. 0° 3' W., bet. secs. 17 and 18.

Over gently rolling land, through shad scale undergrowth, across series of small washes draining E.

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.,  
S17 in E., and  
S18 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

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;  
T39NR4W in N. half;  
S7 in NW.,  
S8 in NE.,  
S17 in SE., and  
S18 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.

Soil, red sandy loam, 2 to 3 ft. deep, on subsoil of red clay.

Undergrowth, shad scale.

No timber.

Good grazing.

40.00

S. 89° 55' E., on a random line, bet. secs. 8 and 17.

80.00

Set temp. 1/4 sec. cor.  
Intersect the N. and S. line, 7 lks. S. of the cor. of secs. 8, 9, 16, and 17.

Thence I run

N. 89° 58' W., on a true line, bet. secs. 8 and 17.

Over gently rolling land, through shad scale.

34.00

Base of spur, bears N. and S.; asc.

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;  
S8 in N.,  
S17 in S., and  
1/4 in W. half; and

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

This cor. is located on the E. slope of spur.

41.00

Rocky spur, projecting S., 40 ft. above base; desc. gradually.

70.00

Base of rocky spur, 20 ft. below top, bears NW. and S.

80.00

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

Land, Gently rolling.

Soil, red sandy loam, 2 to 3 ft. deep, on subsoil of red clay.

Undergrowth, shad scale.

No timber.

Good grazing.

26.

Subdivision of T. 39 N., R. 4 W.

Chains N.  $89^{\circ} 49'$  W., on a random line, bet. secs. 7 and 18.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 78.60 Intersect the W. bdy. of the T., 4 lks. S. of the cor.  
 of secs. 7, 12, 13, and 18.  
 Thence I run  
 S.  $89^{\circ} 47'$  E., on a true line, bet. seos. 7 and 18.  
 Over rolling land, through greasewood and yellowtop.  
 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;  
 S7 in N.,  
 S18 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.  
 78.60 The cor. of secs. 7, 8, 17, and 18.  
 Land, rolling and draining S.  
 Soil, sandy loam and clay. Subsoil, sandy loam and clay.  
 Undergrowth, yellowtop and shad scale, with some grease-  
 wood.  
 No timber.  
 Fair grazing. August 4, 1914.

-----  
 August 5, 1914: At the cor. of secs. 7, 8, 17, and 18,  
 I set off  $36^{\circ} 47'$  N. on the lat. arc;  $17^{\circ} 17'$  N. on  
 the decl. arc; and, at 8h 6m a. m., 1. m. t., determine  
 a meridian with the solar.

Thence I run  
 N.  $0^{\circ} 3'$  W., bet. secs. 7 and 8.  
 Asc. gradually over rolling land, through shad scale.  
 35.00 Base of spur, bears W. and SE.; asc. abruptly.  
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the  
 ground, to bedrock, surrounded by a mound of stone and  
 earth, 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;  
 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.  
 This cor. is located on a spur projecting E., 20 ft. above  
 base; desc. gradually.  
 75.00 Wash, 30 lks. wide, 10 ft. deep, drains. SE.; asc. grad-  
 ually.  
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 26 ins. in  
 the ground, for the cor. of secs. 5, 6, 7, and 8,  
 marked on brass cap  
 1914 on S. rim;  
 T39NR4W in N. half;  
 S6 in NW.,  
 S5 in NE.,  
 S8 in SE., and  
 S7 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, hilly and rolling; south half mile drains SW; north  
 half mile, SE.  
 Soil, light red sandy loam, clay, and disintegrated lime-  
 stone. Subsoil, dark red sandy loam, clay, and disin-  
 tegrated limestone and shale.  
 Undergrowth, shad scale.  
 No timber.  
 Fair grazing.

-----  
 S.  $89^{\circ} 58'$  E., on a random line, bet. secs. 5 and 8.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.

Subdivision of T. 39 N., R. 4 W.

Chains  
79.97

Intersect the N. and S. line, 7 lks. S. of the cor. of  
secs. 4, 5, 8, and 9.

Thence I run

S. 89° 59' W., on a true line, bet. secs. 5 and 8.

Over gently rolling land, through greasewood and sagebrush

38.98½

Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the  
ground, for witness corner to ¼ sec. cor., marked on  
brass cap

1914 on S. rim;

S5 in N.,

S8 in S., and

WC¼ 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.

39.98½

True point for cor. falls on edge of wash.

40.00

Edge of wash, 15 ft. high, bears N. 60° W. and SE.

42.50

Center of wash, drains SE.

45.00

W. edge of wash, 15 ft. high, bears N. 80° W. and SE.

79.97

The cor. of secs. 5, 6, 7, and 8.

Land, gently rolling and level, drains SE.

Soil, light red sandy loam; subsoil, deep dark red sandy  
loam.

Undergrowth, sagebrush and scattering greasewood.

No timber.

Fair grazing.

-----  
N. 89° 47' W., on a random line, bet. secs. 6 and 7.

40.00

Set temp. ¼ sec. cor.

78.48

Intersect the W. bdy. of the T., at the cor. of secs. 1,  
6, 7, and 12.

Thence I run

S. 89° 47' E., on a true line, bet. secs. 6 and 7.

Over gently rolling land, through shad scale and grease-  
wood.

38.48

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;

S6 in N.,

S7 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.

78.48

The cor. of secs. 5, 6, 7, and 8.

Land, gently rolling and level; drains S.

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

Undergrowth, shad scale and greasewood.

No timber.

Fair grazing.

-----  
August 5, 1914: I set off 17° 4' N. on the  
decl. arc; and, at apprent noon, observe the sun on the  
meridian; the resulting lat. is 36° 48' N.

Thence I run

N. 0° 3' W., on random line, bet. secs. 5 and 6.

40.00

Set temp. ¼ sec. cor.

80.34

Intersect the N. bdy. of the T., 7 lks. E. of the cor.  
of secs. 5, 6, 31, and 32.

Thence I run

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

Over rolling land, through sagebrush and yellowtop.

25.00

Wash, 25 lks. wide, 6 ft. deep, drains SE.

40.34

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.,

28.

Subdivision of T. 39 N., R. 4 W.

Chains

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.

75.00

Large wash, 1 chn. wide, 20 ft. deep, drains SE.

80.34

The cor. of secs. 5, 6, 7, and 8.

Land, gently rolling and level; drains SE.

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

Undergrowth, yellowtop and sagebrush.

No timber.

Fair grazing.

August 5, 1914.

## GENERAL DESCRIPTION.

The land in this township is gently rolling, with a south-easterly exposure; draining easterly through Bull Rush wash. The soil in the south half and northeast quarter is gravelly and stony, from one-half to two feet deep, on sandstone bedrock. The soil in the northwest quarter is a red sandy loam of fine texture, from one to four feet in depth, with a subsoil of hard red clay.

Bull Rush wash, which drains easterly through the township, drains a large area of land to the north and west of the township, and overflows its banks after hard thunder storms. At other times it is dry, except at Bull Rush spring, located in sec. 14, where a small stream of alkali water runs the year around, affording the only water for cattle and sheep which graze over the lands.

There is no timber in the township. The undergrowth is greasewood, shad scale, sage, and yellowtop, with very little grass. The grazing is poor.

There are no settlers in the township and I find no traces of mineral.

*Jos. 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 4 West*  
*of the Gila and Salt River Base and Meridian*  
*in the State of Arizona*

executed by *Jas. 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 A. 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.~~