

FEB. 20, 1912

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2349 Book "D"

FIELD NOTES

BOOK 2349

OF THE SURVEY OF THE

*Subdivision of
Township 41 North, Range 2 West*

Of the *Gila and Salt River* Meridian,
In the ^{District} State of *Arizona*

EXECUTED BY

Andrew Nelson and Walter A. Stamm

In the capacity of U. S. ^{Trustmen} ~~Surveyor~~, under instructions dated *August 25*, 1910,
issued by the United States Surveyor General to govern surveys included in
Group No. *3*, which were approved by the Commissioner of the General Land
Office, *September 9*, 1910, pursuant to authority contained in the Act of
Congress dated *March 4*, 1911.

Survey commenced *July 31*, 1911.

Survey completed *August 8*, 1911.

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Chain. Survey commenced July 31, 1911 and executed with Young and Sons, light mountain transit No. 8146, with solar attachment; described in Book "C" of this Survey and a W. and S. E. Sunley light mountain transit, No. 9624 with solar attachment. Described in Book "F" of this survey.

At 8^h 6^m. a.m. 1. m. t. Inst. of 36' 54" on the lat. arc, 18° 28' 1/2" N. on the decl. arc. and determine a meridian with the solar at the standard cor. of secs. 35 and 36 on the S. bdy. of the Tp., which is an iron post, heretofore described in Book B.

Hence I run

N 0° 01' W. bet. secs. 35 and 36.

Over low, rolling hills, sloping N., through sparse undergrowth of short sage brush.

Ascend, gradually, 20 ft. to.

9.00 Base of hills, bears N 80° E. and W.

Hence over nearly level bottom land, through undergrowth of grease wood and shade trees.

40.00 Set an iron post, 3 ft. long, 1 in. dia.; 26 ins. in the ground for 1/4 sec. cor.; m.p. on brass cap.

1/4 S 35 on W. half.

3/4 S 36 on E. half; dig pits

18 x 18 x 12 ins., N. and S. of post, 3 ft.

dia. and raise a mound of earth,

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

41.48 Old road, bears E. and W.

58.01 Wash, 20 lbs. wide, 6 ft. deep. Course N 80° W.

66.00 Dry Channel of Johnson Creek, 25 lbs. wide, 1 1/2 ft. deep. Course S 80° W.

80.00 Set an iron post, 3 ft. long, 2 ins. dia.; 24 ins. in the ground for cor. of secs. 25, 26, 35 and 36, m.p. on brass cap.

T 41 N S 26 in N W.

R 2 W S 25 in N E.

S 36 in S E and

S 35 in S W. Gradient.

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Chains. 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.
 Sand, hilly and nearly level, drains W.
 Soil, South, 9.00 chd. gravelly, 2nd rate.
 Subsoil, lime formation.
 North, 71.00 chains, bottom land, deep
 rich sandy loam, 1st rate.
 Subsoil, gravel.
 Undergrowth, sage brush, grease wood
 and shadscale.
 Sand, hilly, 9 chains.

East on a random line,
 bet. secs. 25 and 36
 40.00 Set temp. 1/4 sec. cor.
 80.00 Intersect E. bdy. of the Tp. at the cor.
 of secs. 25, 30, 31 and 36 heretofore described.
 Thence I run.
 West on a true line,
 bet. secs. 25 and 36
 Over gently rolling bottom land,
 through undergrowth of grease wood,
 shadscale and scattering sage brush.
 16.50 Dry channel of Johnson Creek, 30 lbs. wide,
 12 ft. deep, course S 60° W.
 40.00 Set an iron post, 3 ft. long, 1 in. dia.;
 26 ins. in the ground for 1/4 sec. cor.;
 Nhd. on brass cap.
 1/4 S 25 on N. half.
 S 36 on S. half. dig pits
 18x18x12 ins. E. and W. of post, 3 ft.
 dist.; and raise a mound of earth.
 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
 80.00 The cor. of secs. 25, 26, 35 and 36.
 Sand, gently rolling and nearly level
 bottom land, slopes S W.
 Soil, deep, rich sandy loam, 1st rate
 Subsoil, lime and gravel formations.
 Undergrowth, sage brush, grease
 wood and shadscale

Chairs. $N 0^{\circ} 01' W.$ bet. secs. 25 and 26.
Over gently rolling land, through
sparse undergrowth of shad scale and
grease wood.

8.73 Wash, 8 lbs. wide, 1 ft. deep, course S W.

9.69 Wash, 10 lbs. wide, 1 ft. deep, course S W.

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

$\frac{1}{4}$ S 26 on W. half.

S 25 on E. half; dig pits

18x18x12 ins.; N. and S. of post, 3 ft.
dia.; and raise a mound of earth,
3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

55.81 Old road, bears N W. and S E.

80.00 Set an iron post, 3 ft. long, 2 ins.
dia.; 24 ins. in the ground for cor.
of secs. 23, 24, 25 and 26, mkd.
on brass cap:

T 41 N S 23 in N W.

R 2 W S 24 in N E.

S 25 in S E. and

S 26 in S W. quadrant; dig

pits 18x18x12 ins. in each sec.;
5 $\frac{1}{2}$ ft. dia.; and raise a mound of
earth, 4 ft. base, 2 ft. high, W. of cor.

Land, gently rolling bottom land,
with a gentle slope to the South

Soil, red sandy loam, 1st rate.

Subsoil, clay and gravel formation.

Undergrowth shad scale and

grease wood on mile.

July 31: at this sec. cor. I set off

$18^{\circ} 25' \frac{1}{2}''$ N. on the decl. arc. and at

$12^{\text{h}} 06^{\text{m}} \text{ P. M.}$ 1. m. +, observe the

sun on the mer.; the resulting lat

is $36^{\circ} 56' N.$

East, on a random line,

bet. secs. 24 and 25.

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

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80.00	<p>Intersect the E. bdy. of the T.P. 3 lks. N. of the cor. of secs. 19, 24, 25 and 30, heretofore described. Thence I run N 89° 59' W. on a true line bet. secs. 24 and 25.</p>
16.00	<p>Wash. 6 lks. wide, 10 ft. deep. Course S 30° W.</p>
40.00	<p>Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for 1/4 sec. cor.; Nkd. on brass cap. 1/4 S 24 on W. half. S 25 on S. 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.</p>
64.00	<p>Wash. 10 lks. wide, 6 feet deep. Course S W.</p>
80.00	<p>The cor. of secs. 23, 24, 25 and 26, land, gently rolling, slopes S W. Soil, deep rich sandy loam, 12 in. deep. Subsoil, gravel. Undergrowth, shadscale and quincewood, one mile.</p>
	<p>N 89° 59' W. bet. secs. 23 and 24. Over rolling land through scattering undergrowth of sage brush & shadscale brush.</p>
33 1/4	<p>Wash. 5 lks. wide, 4 ft. deep. course S 10° W.</p>
40.00	<p>Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for 1/4 sec. cor.; Nkd. on brass cap 1/4 S 23 on W. half. S 24 on E. 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.</p>
60.00	<p>Foot of broken gypsum hills, bears E. and W.</p>
	<p>Ascend 125 feet to</p>
78.75	<p>Top of bench, bears N 70° E. and W.</p>
80.00	<p>Set an iron post, 3 ft. long, 2 ins.</p>

Chains. dia. 24 ins. in the ground
 for cor. of secs. 13, 14, 23 and 24
 Mkd. on brass cap:
 T 41 N S 14 in N W.
 R 2 W S 13 in N E.
 S 24 in S E. and
 S 23 in S W. quadrant. Dig
 pits 18x18x12 ins. in each sec.;
 5 1/2 ft. dia.; and raise a mound
 of earth, 4 ft. base, 2 ft. high, W.
 of cor.
 Land rolling and hills.
 Soil, South 60.00 chs. gypsum
 clay, 2nd rate.
 North, 20.00 chs. gypsum, 3rd rate
 Subsoil, gypsum.
 Undergrowth shadscale and sage
 brush on mile.

S 89° 5' - 9' E. on a random line
 bet. secs. 13, and 24.
 40.00 Set temp. 1/4 sec. cor.
 80.00 Intersect E. bdy. of the T.P., 2 lps.
 S. of the cor. of secs. 13, 18, 19 and 24,
 heretofore described.
 Thence I run
 West, on a true line,
 bet. secs. 13 and 24.
 Over rolling land, facing South,
 through undergrowth of sage,
 grease wood and cactus brush.
 24.00 Wood road, bears N 35° E. and
 S. 35° W.
 30.00 Foot of broken gypsum hills, bears
 N E and S W
 ascend 60 feet to
 40.00 Set an iron post, 3 ft. long, 1 in. dia.;
 26 ins. in the ground for 1/4 sec. cor.;
 Mkd. on brass cap;
 1/4 S 13 on N. half.
 1/4 S 24 on S. half; dig

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Chains. pits 18x18x12 ins., E. and W. of
 post, 3 ft. dist., and raise a mound
 of earth, 3½ ft. base, 1½ ft. high.
 N. of cor.

49.85 Wash, 8 lbs. wide, 2 feet deep, in
 hollow. Course South.

Ascend 70 feet to

75.00 Top of bench land, bears N60° E. and
 S60° W.

Descend 10 feet to

80.00 The cor. of secs. 13, 14, 23 and 24.
 Land rolling and hilly.
 Soil, East 30 chains, clay soil,
 2nd rate.
 West 50.00 chains, gypsum, 3rd rate
 subsoil, gypsum formation.
 Undergrowth, sage, greasewood
 and cactus.

July 31, 1911.

August 1: at 8^h 06^m A.M. 1. m. +. I
 set off 36° 56³/₄' on the lat. arc, 18° 13¹/₂' N,
 on the decl. arc, and determine a
 mer. with the solar at the cor. of
 secs. 13, 14, 23 and 24.

Thence I run

N70° 01' W. bet. secs. 13 and 14.

Over broken bench land,
 through undergrowth of cactus, greasewood
 and sage brush.

Ascend 25 feet to

30.16 Small hollow, course W.

Ascend gradually, 10 feet to

40.00 Set an iron post, 3 ft. long, 1 in. dia.,
 26 ins. in the ground for ¼ sec. cor.,
 mhd. on brass cap.

¼ S 14 on W. half.

S 13. on E. 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.

Chains.
 45.10 Wash, 10 lks wide, 4 feet deep, course
 S 35° W.
 55.90 Wood road, bears NE, and S 70° W,
 Thence over gently rolling land,
 through dense undergrowth of cactus
 and sage brush.
 80.00 Set an iron post, 3 ft. long, 2 ins.
 dia., 24 ins. in the ground for cor.
 of secs. 11, 12, 13 and 14, mks.
 on brass cap.
 T 41 N S 11 in NW.
 R 2 W S 12 in NE.
 S 13 in SE, and
 S 14 in SW quadrant, dig
 pits 18 x 18 x 12 ins. in each sec, 5 1/2 ft.
 dia., and raise a mound of earth
 4 ft. base, 2 ft. high, W. of cor.
 Land, broken and gently rolling.
 Soil, South 55.90 chains, gypsum,
 3rd rate, North 24.10, white clay
 and gypsum loam, 2nd rate
 subsoil, gypsum.
 Undergrowth, cactus, greasewood and
 sage brush.
 Land, broken, hills, 55.90 chains.

East, on a random line,
 bet. secs. 12 and 13.
 40.00 Set temp. 1/4 sec. cor.
 80.05 Intersect E. bdy. of the TP., 12 lks. N. of
 the cor. of secs. 7, 12, 13 and 18, herefore
 described.
 Thence I run
 N 89° 55' W. on a true line
 bet. secs. 12 and 13.
 Over gently rolling land through
 dense undergrowth of cactus and sage-
 brush:
 40.02 1/2 Set an iron post, 3 ft. long, 1 in. dia.,
 26 ins. in the ground for 1/4 sec. cor.

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Chains.

Mkd. on brass cap.

 $\frac{1}{4}$ S 12 on N. half.

S 13 on S 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.

58.90

Wood road, bears N 10° E. and S W.

80.05

The cor. of secs. 11, 12, 13 and 14.

Land, gently rolling bench land.

Soil, sandy and gypsum loam,
24 ins. deep, 2 rd rate.

Subsoil, gravel and gypsum.

Undergrowth sage and cactus on mile.

August 1: at this sec. cor. I set off

18° 10' N. on the decl. arc and at

12^h 06^m P. M. 1. m. t. observe the sunon the mer.; the resulting lat. is 36° 57' $\frac{1}{2}$ N.Sickness in P. M. prevents field
work.

August 1, 1911.

August 2: at 8^h 06^m A. M. 1. m. t. I setoff 36° 57' $\frac{1}{2}$ on the lat. arc, 17° 58' $\frac{1}{2}$ N.

on the decl. arc; and determine a

mer. with the solar at the cor. of secs.

11, 12, 13 and 14.

Thence I run

N 0° S W. bet secs. 11 and 12.

Cross rolling bench land, through
dense undergrowth of sage brush, cactus
and grease wood

30.48

Walk, 6 lbs. wide, 4 feet deep, course
West.

40.00

Set an iron post, 3 ft. long, 1 in. dia.

26 ins. in the ground for 4 sec. cor.

Mkd. on brass cap.

 $\frac{1}{4}$ S. 11 on W. half.

S 12 on E. 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.

Chains.

60.00 Enter scattering cedar timber, bears East and West.

60.60 Wood road, bears N 40 and S E.

61.60 Same road, bears N 15° E. and S W.

62.92 Same road, bears N 20° W and S E.

65.75 Ravine, course S 80° W.

80.00 Gradually ascend 30 feet to
Set an iron post, 3 ft. long, 2 ins. dia.,
34 ins. in the ground for the cor. of
secs. 1, 2, 11 and 12. Nkd. on
brass cap:

T 41 N S 2 in N W.

R. 2 W S 1 in N E;

S 12 in S E, and

S 11 in S W. quadrant.

from which
a cedar, 10 in. dia., bears N 59° E.,
81 lbs. dist., nkd

T 41 N R 2 W S 1 BT.

a cedar, 6 ins. dia., bears S 17° E.,
45 lbs. dist., nkd.

T 41 N R 2 W S 12 BT.

a cedar, 8 ins. dia., bears S 67 1/4° W.,
166 lbs. dist., nkd.

T 41 N R 2 W S 11 BT.

a cedar, 12 ins. dia., bears N 79 1/4° W.,
47 lbs. dist., nkd

T 41 N R 2 W S 2 BT.

Land, gently rolling, slopes to the S W.
Soil, deep, rich, sand loam and
gravelly, 1st rate.

Subsoil, gravel formation.

Timber, cedar.

Undergrowth, Cactus, sage brush
and grease wood

Land, timbered 20.00 chains.

40.00 S 89° 55' E. on a random line
bet. secs. 1 and 12.
Set temp. 1/4 sec. cor.

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Chains
80.00

Intersect E. bdy. of the T. at the cor. of sec. 1, 6, 7 and 12 heretofore described.

Aug. 2: at this cor. I set off $17^{\circ}55'5\frac{1}{2}''$ on the decl. arc, and at $12^{\text{h}}06^{\text{m}}\text{P.M.}$ observe the sun on the mer.; the resulting lat. is $36^{\circ}58'5\frac{1}{2}''$ N.

Thence I run $N 89^{\circ}55' W.$ on a true line bet. sec. 1 and 12.

Over rolling land facing North, through dense forest of cedar and juniper pine timber, sparse undergrowth of sage brush.

18.25 Wood road, bears $NW.$ and $SE.$

27.75 Wood road, bears $N.$ and $S.$

29.00 Edge of bench land, bears $N 30^{\circ} W.$ and $S 30^{\circ} E.$

Descend, over rocky land facing $SW.$ 75 feet to.

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

$\frac{1}{4} S 1$ on $N.$ half.

$S 12$ on $S.$ half; from which a cedar, 14 ins. dia.; bears $S 51^{\circ}14' W.$; 62 lbs. dist.; nkd

$\frac{1}{4} S 12 BT$

a cedar, 10 ins. dia.; bears $N 32^{\circ} E.$; 35 lbs. dist.; nkd

$\frac{1}{4} S 1 BT.$

41.00 Spur from bench, projects $N.$ 1 chain

44.30 Base of rocky descent; bears $N.$ and $S 20^{\circ} E.$

Thence over rolling land.

66.00 Wash, 15 lbs. wide, 2 ft. deep, in hollow, 60 feet, below spur, course South.

Ascend gradually 20 feet to

Chains.

68.00 Wood road, bears $N 20^{\circ} W.$ and $S 20^{\circ} E.$
 88.00 The cor. of secs. 1, 2, 11 and 12.
 Land, rolling and hilly, slopes to the $S W.$
 Soil, rocky and gravelly, 2nd and 3rd rates.
 Subsoil, sandstone.
 Timber, Cedar and juniper five or six miles.
 Undergrowth, sage brush.
 Land hilly, 15, 30 chains.

40.00 $N 0^{\circ} 01' W.$ on a random line
 bet. secs. 1 and 2.
 79.96 Set temp. $\frac{1}{4}$ sec. cor.
 Intersect the $N.$ bdy. of the TP., 9 lps.
 $W.$ of the cor. of secs. 1, 2, 35 and 36,
 heretofore described.
 thence I run
 $S 0^{\circ} 03' W.$ on a true line
 bet. secs. 1 and 2.
 Over broken bench land, through
 scattering forest of cedar and juniper
 timber, dense undergrowth, Sage brush
 8.00 Edge of bench, bears $N 60^{\circ} W.$ and $S 10^{\circ} E.$
 Descend, along rocky land facing $W.$
 150 feet to
 26.00 Gulch, course $N W.$, ascend over
 Conglomerate ledges, bearing $N W.$ and
 $S E.$ 150 feet to
 31.50 Edge of front of bench, bears E and $W.$
 Thence across front of bench land
 38.00 Descend, over broken land facing
 $S W.$, 20 ft to
 39.96 Set an iron post, 3 ft. long, 1 in. dia.,
 26 ins. in the ground for $\frac{1}{4}$ sec. cor.
 nkd. on brass cap.
 $\frac{1}{4}$ $S 2$ on $W.$ half.
 $S 1$ on $E.$ half, from which
 a juniper fine limb, 8 ins. dia., bears $N 54\frac{1}{2}^{\circ} E.$

Chains. 70 lps. dist; nbsd.
 1/4 S 1 BT.
 A cedar, 12 ins. dia., bears S 77 1/2° W.,
 30 lps. dist; nbsd.
 1/4 S 2 BT.
 Ascend 30 feet to
 42.00 Gulch, course NW;
 Ascend 30 ft. to
 45.00 Top of bench, bears. N W. and SE.
 Thence across top of bench.
 63.75 Leave bench land, bears East. and
 S 40° W.
 Ascend 50 feet to
 67.00 Hollow. Course SE.
 Ascend 50 ft. to
 70.35 Spur, projects N 80° E.
 Ascend
 74.37 Wood road, bears E. and S 88° W.
 79.96 125 ft. below spur.
 The cor. trees, 1, 2, 11 and 12,
 Land, rolling mountainous
 bench land; general slope to the
 SW.
 Soil, rocky, 3rd rate.
 Timber, Cedar and juniper fine or mil.
 Undergrowth, sagebrush.
 Land, rolling mountainous and
 timbered 79.96 Chains.

Andrew Nelson.
 August 2, 1911. N. S. Transitman

August 2: At 8⁰⁶ a.m. 1. m. +. I set
 off 36° 54' on the lat. arc, 17° 58 1/2' N.
 on the decl. arc and determine a
 Mer. with the solar at the standard
 cor. of secs. 34 and 35 in the S.
 sdy. of the T.P., heretofore described
 Thence I run
 N 0° 01' W. bet. secs. 34 and 35.
 Over nearly level land, through

Chains. sparse undergrowth of sage, schads
scale and rabbit brush

26.20 Old road, bears N W. and SE.

31.40 Johnson creek, 1/2 k wide, muddy
water in wash, 50 lbs. wide, 6 ft. deep.
Course S W.
True cor. point falls in a wash
20 at

39.90 Set an iron post, 3 ft. long, 1 in. dia.,
26 ins. in the ground for witness
cor. to the 1/4 sec. cor.; mhd. on brass cap;
T 41 N R 2 W W C 1/4 S 34 S 35;
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.

40.00 Wash, 8 lbs. wide, 6 feet deep. course
S W.

64.00 Foot of steep ascent of bench,
bears NE. and S W.
Ascend 100 feet to

72.00 Top of ascent of E. slope.
Descend 80 feet to

80.00 Set an iron post, 3 ft. long, 3 ins.
dia.; 24 ins. in the ground for
Cor. of secs. 26, 27, 34 and 35;
mhd. on brass cap;
T 41 N S 27 in N W,
R 2 W S 26 in N E.
S 35 in S E. and
S 34 in S W. 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, nearly level and rolling.
Soil, on S. 67.00 chains, deep, rich
sandy loam with gravel sub-
soil. 1st rate; North 16.00 chs,
shale formation with shale subsoil,
3rd rate.
Undergrowth, sage, schads scale and rabbit brush.

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Chains	East, on a random line bet. secs. 26 and 35 -
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect N- and S line, at the cor. of secs. 25, 26, 35 and 36, thence I run West, on a true line, bet. secs. 26 and 35; Over nearly level land through scattering undergrowth of schadscale and sage brush.
15.20	Wash, 20 lbs. wide, 6 ft deep. course S 45° W
38.90	Wash, 15 lbs. wide, 5 ft deep. course S 45° W. Point for cor. falls in wash so at
39.78	Set an iron post, 3 ft. long, 1 in. dia; 26 ins. in the ground for witness cor. to the $\frac{1}{4}$ sec. cor. mark on brass cap. T41NR2WS26WC $\frac{1}{4}$ S35; Dig pits 18x18x12 ins; E. and W. of post 3 ft. dist; and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high N. of cor.
40.00	Wash, 20 lbs. wide, 4 feet deep, course S,
60.00	Wash, 10 lbs. wide, 4 ft deep, course S 35° W.
72.00	Foot of steep ascent of bench, bears N. and S.
76.00	Ascend abruptly.
80.00	100 feet above $\frac{1}{4}$ sec. cor. The cor. of secs. 26, 27, 34 and 35 Land, nearly level and hilly. Soil, rich, deep, sandy loam on east. 72.00 chains; subsoil gravel, 1 st rate. West 8.00 chains, gypsum, 2 nd rate. Subsoil shale. Undergrowth sage brush and schadscale on mile.
16.00	N 60° W. bet. secs. 26 and 27. Over gently rolling land, facing NE, through scattering undergrowth of sage brush and schadscale. Thence over nearly level land, bears NW. and SE.

Chains.

40.00

Set an iron post, 3 ft. long, 1 in. dia.;
26 ins. in the ground for $\frac{1}{4}$ sec. cor.;
mhd. on brass cap:

$\frac{1}{4}$ S 27 on W half.

S 26 on E. 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, 3 in.
dia.; 24 ins. in the ground for
cor. of secs. 22, 23, 26 and 27.

mhd. on brass cap:

T 41 N S 22 in N W.

R 24 W S 23 in N E.

S 26 in S E. and

S 27 in S W. quadrant, dig

pits 18x18x12 ins. in each sec.,

5 $\frac{1}{2}$ ft. dist.; raise a mound of
earth 4 ft. base, 2 ft. high, W. of cor.

Land rolling and nearly level,
soil, deep rich sandy loam,
1st rate.

Subsoil, gravel.

Undergrowth, sage brush and salsola.

August 2: at this cor. I set off 17° 55' $\frac{1}{2}$ '
of the decl. arc, and at 12^h 06^m.

P. M. 1. m. + observe the sun on
the mer; the resulting lat. is 36° 56' N.

40.00

79.96

East, on a random line
bet. secs. 23 and 26.

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

Intersect N. and S. line 5 lks. N.
of the cor. of secs. 23, 24, 25 and 26.
Thence I run

N 89° 58' W. on a true line,

bet. secs. 23 and 26.

Over nearly level land, through
sparse undergrowth of sage brush

BOOK

<p>Chains 39.98 79.96</p>	<p>and schadscale. Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor.; Nbd. on brass cap. $\frac{1}{4}$ S 23 on N. half. S 26 on S. half; dig pits 18x18x12 ins; E. and W. of post, 3 ft. dia.; and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high. N. of cor. The cor. of secs. 22, 23, 26 and 27, Land, nearly level, slopes to the South. Soil, deep, rich sandy loam. Subsoil, gravel formation. Undergrowth sage, brush and schadscale on hill.</p>
<p>12.00 19.00 24.00 40.00 40.50 68.00 79.00 80.00</p>	<p>N 0° 01' W. bet secs. 22 and 23. Over rolling land through sparse undergrowth of sage brush and schadscale. Foot of steep ascent of bench, bears N E. and S W. Ascend more gradually. 160 feet above sec. cor., Top of bench, bears N E. and S W. Thence over rolling land, Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor.; Nbd. on brass cap. $\frac{1}{4}$ S 22 on W. half. S 23 on E. half, raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. 40 feet below, top of bench, Hollow, course W. Ascend 60 ft. to Ridge, bears E. and W.; Descend 50 feet to Enter hollow, bears N 80° W. and E. Set an iron post, 3 ft. long, 3 ins. dia.,</p>

Chains. 24 ins. in the ground for cor. of sec.
 14, 15; 22 and 23, Meadow brass cap.
 T 41 N S 15 in NW.
 R 2 W S 14 in NE.
 S 23 in SE. and
 S 22 in SW. quadrant, raise
 a mound of stone, 2 ft. base, 2 ft. high,
 W. of cor. Pits impracticable.
 Land, rolling and broken bench land,
 slopes to the West.
 Soil, gravelly and gypsum formation.
 Substr. shale.
 Undergrowth, of sage brush and schadscale.

S 89° 58' E. on a random line,
 bet. sec. 14 and 23.
 40.00 Set temp. 1/4 sec. cor.
 79.96 Intersect N. and S. line, 2 lks. N.
 of the cor. of sec. 13, 14, 23 and 24.
 Thence I run
 N 89° 57' W. on a true line
 bet. sec. 14 and 23.
 Over rolling bench land, through
 dense undergrowth of sage and
 rabbit brush and schadscale.
 39.98 Set an iron post 3 ft. long, 1 in. dia.
 26 ins. in the ground for 1/4 sec. cor.,
 Meadow brass cap.
 1/4 S 14 on N. half.
 S 23 on S half; dig pits
 18 x 18 x 12 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.
 descend gradually.
 70.10 Spur of bench projects NW.
 descend 60 feet
 73.50 wash, 10 lks wide, 6 ft. deep, in
 hollow, course N 85° W.
 79.96 The cor. of sec. 14, 15; 22 and 23.
 Land, rolling, slopes to the West.
 Soil, gravelly, 2 rd rate.

BOOK

Chains Subsoil, gravel hardpan,
Undergrowth, sage and rabbit brush
and schadscale. on mile.
August 2, 1911.

August 3: at 8^h. 06^m. a. m. l. m. t. I
set off 36° 56³/₄' on the lat. arc, 17° 43' 7"
on the decl. arc, and determine a
mer. with the solar. at the cor. of secs.
14, 15, 22 and 23.
Thence I run
N 0° 01' W, bet. secs. 14 and 15;
Over broken gypsum hills through
sparse undergrowth of sage brush
and schadscale.
2.95 Wash, 10 lks. wide, 4 ft. deep, course W.
7.00 Ascend, abrupt, bears SE. and W.
8.00 Spur, projects W.
Descend, over rolling hills, 50 feet to
18.25 Wash, 10 lks. wide, 2 ft. deep in
hollow, course West.
Ascend 75 feet to
24.00 Top of bench land, bears N 40° W, S 80° E.
Ascend gradually.
38.85 Wood road, bears NE. and S W.
40.00 Set an iron post, 3 ft. long, 1 in. dia.,
26 ins. in the ground for ¹/₄ sec. cor.,
mkd. on brass cap.
¹/₄ S 15° on W half,
S 14° on E. half; dig pits
18 x 18 x 12 ins., N. and S. of post, 3 ft. dia.,
and raise a mound of earth, 3¹/₂ ft.
base, 1¹/₂ ft. high, W. of cor.
Ascend 40 feet to
64.00 Leave bench land, bears NE. and S W, desc. over
rolling gypsum hills, 100 feet to.
80.00 Set an iron post, 3 ft. long, 3 ins. dia.,
26 ins. in the ground for cor. of secs.
10, 11, 14 and 15; mkd. on brass cap.
T 41 N S 10 in N W.
R 2 W S 11 in N E.

Chains.

S 14 in S E. and
 S 15 in S W quadrants, raise a
 mound of stone, 2 ft. base, 1 1/2 ft. high
 40. of cor. Pits impracticable.
 Land, rolling hills and bench land, slopes West.
 Soil, gravelly, shale formation, 2nd rate
 Subsoil, Shale.
 Undergrowth, sage brush and shade scale on mile

40.00

S 89° 57' E. on a random line
 bet. secs. 11 and 14.

Set temp. 1/4 sec. cor.

79.96

Intersect N. and S. line, 7 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 gently rolling bench land, through
 dense undergrowth of sage and rabbit brush
 and shade scale.

16.00

Descend, gradually, 40 ft. to
 Wash, 10 lks. wide, 4 ft. deep, course S W.

39.98

Edge of bench, bears N E. and S W.
 Set an iron post, 3 ft. long, 1 in. dia., 26
 ins. in the ground for 1/4 sec. cor.;
 Mkd. on base cap:

1/4 S 11 on N. half.

S 14 on S. half. dig pits
 18 X 18 X 12 ins. E. and W. of post, 3 ft.
 dia., and raise a mound of earth
 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.

Ascend over gypsum hills
 100 feet to

79.96

The cor. of secs. 10, 11, 14 and 15.

Land, gently rolling and
 gypsum hills.

Soil, gypsum formation, 2nd rate
 Subsoil, shale

Undergrowth, sage brush, rabbit
 brush and shade scale on
 mile

- Chains N 0° 01' W. bet. secs. 10 and 11.
Over rolling gypsum hills
through undergrowth of sage brush
and shadscale.
- .60 Follow, course W.
Ascend abruptly, 60 feet to
- 1.30 Spur, projects W. 2 chains.
Descend 80 ft. to
- 8.50 Follow, course S 40° W.
Ascend 80 ft. to
- 38.00 Edge of bench land, bears N 7 E. and S 40° W.
Fence over rolling land, sloping
S 40° W.
- 40.00 Set an iron post, 3 ft. long, 1 in. dia.;
26 ins. in the ground for $\frac{1}{4}$ sec. cor.;
nkd. on brass cap:
 $\frac{1}{4}$ S 10 on W. half.
S 11 on E. half; from which
a cedar, 5 ins. dia.; bears N 40° 45';
70 lbs. dist.; nkd.
 $\frac{1}{4}$ S 10 BT. dig
pits 18 x 18 x 12 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.
No suitable bearing tree available
in sec. 11.
- 79.00 Edge of bench land, bears N 7 E. and W.
Descend 80 ft. to
- 80.00 Set an iron post, 3 ft. long, 3 ins.
dia.; 24 ins. in the ground for cor.
of secs. 2, 3, 10 and 11; nkd. on brass cap:
T 41 N, S 3 in N 40,
R 2 W S 2 in N 7 E.
S 11 in S E. and
S 10 in S 40 quadrant.
from which
a cedar, 8 ins. dia.; bears N 4° 02' E,
420 lbs. dist.; nkd.
T 41 N R 2 W S 2 BT.
No other suitable bearing trees available

Chariis 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, nearly level and rolling
hills;
Soil, gypsum formation, 2nd rate.
Subsoil, shale
Undergrowth, sage brush, rabbit brush
and schadschah.
A few scattering cedars along N half mile
Land, rolling hills 40.00 chains.
August 3: at this sec. cor. I set off
17° 40' N. on the decl. arc, and at
12^h 06^m. P.M. 1. m. + observe the Sun
on the mer; the resulting lat. is
36° 58 1/2' N.

East, on a random line,
bet. sec. 2 and 11.
40.00 Set temp. 1/4 sec. cor,
79.98 Intersect N. and S. line, at the
Cor. of sec. 1, 2, 11 and 12,
Thence I run
West, on a true line,
bet. sec. 2 and 11.
Over hilly land, through scattering
forest of cedar timber, dense under-
growth of sage brush and cactus.
13.50 Wood road, bears NE. and SW.
21.30 Same road, bears NW. and SE.
23.59 Same road, bears NE. and SW.
32.00 Top of bench land, bears North,
2 Chariis. dist, bench, bears
E. and W, descend 30 feet to
39.00 Gully, course N, 10° W.
ascend 25 feet to
39.99 Set an iron post, 3 ft. long, 1 in.
dia; 26 ins. in the ground for
1/4 sec. cor., mark on brass cap,
1/4 S 2 on N. half,
S 11 on S. half, from which

	<p>Chains A cedar, 9 ins. dia; bears S 60° W; 15 lbs. dist; mkd ¼ S 11 BT. a cedar, 20 ins. dia; bears N 10¼° W; 27 lbs. dist; mkd. ¼ S 2 BT.</p>
45.70	<p>A wood road, bears N E. and S W. Gradually ascend over land facing SE.</p>
49.00	<p>The East point of bench, bears North 3. Chs. dist; the bench bears North and N W. Thence over land sloping S W.</p>
79.10	<p>Edge of bench land bears N E. and S W. Ascend 30 feet to</p>
79.98	<p>The cor. of secs. 2, 3, 10 and 11. Land, hilly, Soil, stony, 2nd rate. Subsoil, shale. Timber Cedar. Undergrowth, sage brush and cactus.</p>
40.00	<p>N 0° 03' E, on a random line bet. secs. 2. and 3. Set temp. ¼ sec. cor.</p>
80.08	<p>Intersect N. bdy of the TP, 23 lbs. E. of the cor. of secs. 2, 3, 34 and 35; heretofore described. Thence I run</p>
5:00	<p>S 0° 07' E, on a true line, bet. secs. 2 and 3. Over nearly level land, through sparse undergrowth of sage brush.</p>
6:00	<p>Wash, 20 lbs. wide, 8 ft. deep, course S W.</p>
31.00	<p>Wash, 20 lbs. wide, 5 ft. deep, course S W.</p>
40.08	<p>Wash, 20 lbs. wide, 4 ft. deep, Course W.</p>
40.08	<p>Set an iron post, 3 ft. long, 1 in. dia; 26 ins. in the ground for ¼ sec. cor; mkd on brass cap; ¼ S 3 on W half S 2 on E. half; dig pits 18x18x12 ins; N. and S. of post, 3 ft.</p>

Chains. Dist.; and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, ^{45.00}
 54.00 Wash, 10 lbs. wide, 4 ft. deep, course N 40.
 60.00 Foot of rolling land, bears N. 80° E. and S 80° W.
 Ascend 50 ft. to.
 80.08 The cor. of secs. 2, 3, 10 and 11.
 Land nearly level and rolling, soil, North, 60.00 chains, deep, rich sandy loam, 1st. rate.
 South, 20.08 chains, gravelly and heavy clay, 2nd rate. Subsoil, gravel. Undergrowth, sage brush on hills.
 Water a. S. tunnel.
 August 3, 1911. U. S. Trautman.

August 3: At 8^h 06^m. A. M. 1. m. t. I set off 36° 54' on the lat. arc, 17° 43' N. on the decl. arc and determine a Mer. with the solar, at the standard cor. of secs. 33 and 34 in the S. bdy of the T.P., heretofore described.
 Thence I run N 0° 52' W, bet secs. 33 and 34.
 Over gently rolling land through dense undergrowth of short sage brush and shadscale.
 Ascend gradually
 4.00 Foot of abrupt ascent of bench, bears N E, and S W, ascend 100 ft to
 8.00 Top of bench land, bears N E. and S W
 Descend gradually 70 ft. to
 16.50 Ravine, course N 80° W.
 Ascend 40 ft. to
 22.00 Top of ascent, bears N E. and S W.
 Descend, gradually, 20 ft. to
 40.00 Set an iron post, 3 ft. long, 1 in. dia.; 26 ins. in the ground for 1/4 sec. cor.; mtd. on brass cap.
 1/4 S 33 on W. half.

BOOK

Chauce. S 34 on E. half; dig pits
18x18x12 ins. N. and S. of post. 3 ft.
bet; and raise a mound of earth.
3 1/2 ft. base, 1 1/2 ft. high West of
corner.

57.90 Road from ranches to Ryan
and Buckskin mountains, bears
N 80° W. and S 80° E.

80.00 40 ft. below 1/4 sec. cor.
Set an iron post, 3 ft. long, 3 ins.
dia.; 24 ins. in the ground for
cor. of sec., 27, 28, 33 and 34,
Mkd. on brass cap:

T 41 N S 28 in NW.

R 24 W S 27 in NE.

S 34 in SE. and

S 33 in SW. quadrants; dig pits

18x18x12 ins. in each. sec.; 5 1/2 ft.
dia.; and raise a mound of
earth, 4 ft. base, 2 ft. high. W. of cor.
Land, rolling, slopes to the west.
Soil, rocky and gravelly, 2nd rate.
Subsoil, shale rock!

Undergrowth, shadscale and sagebrush.
Sand hilly, south 20.00 chains.

40.00 East, on a random line,
bet. sec. 27 and 34.

80.02 Set temp. 1/4 sec. cor.

Intersect N. and S. line, 5 lbs.
S. of the cor. of sec. 26, 27, 34
and 35;

Thence I run
S 89° 58' 45. on a true line,
bet sec. 27. and 34.

Over E. face of steep ascent
through dense undergrowth of short
sage brush and shadscale;

Ascend 60 feet to
2.50 Top of bench land, bears
N W. and S E.

Chains. Thence over nearly level land, draining NW.

36.30 Road, from Fredonia to Ryan and Buckskin Mountains, bears NW. and SE.

40.01 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor.; mhd. ow brass cap;
 $\frac{1}{4}$ S 27 on N. half,
 S 34 on S. 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.

60.11 Kaibab Forest Reserve telephone line, bears N 28° 26' W. and S 28° 26' E.

80.02 The cor. of secs. 27, 28, 33 and 34. Land, nearly level.
 Soil, deep, rich, gravelly loam, 1 $\frac{1}{2}$ rate.
 Subsoil, clay and lime formations. Undergrowth sage brush and shadscale, on mile.

N 0° 02' W. bet. secs. 27 and 28.
 Over nearly level bench land through dense undergrowth of short sage brush and shadscale. Ascend gradually.

57.00 Wash, 10 lbs. wide, 3 feet deep, course S W.

36.15 Kaibab Forest Reserve telephone line, bears N 28° 26' W and S 28° 26' E.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor.; mhd. ow brass cap.
 $\frac{1}{4}$ S 28 on W. half,
 S 27 on E. 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, 2 $\frac{1}{2}$ ft. high, W. of cor.

BOOK 2349

Chairs

58.70

Road, from Fredonia to Pyaw and Buckskin Mountains, bears NW and S.

80.00

Set iron post, 3 ft. long, 2 ins. dia.; 24 ins. in the ground for cor. of secs. 21, 22, 27 and 28; Nkd. on brass cap.

T 41 N S 21 in NW.

R 2 W S 22 in NE.

S 27 in SE, and

S 28 in SW quadrant, dig pits

18 x 18 x 12 ins. in each sec; 5 $\frac{1}{2}$ ft.

dist; and raise a mound of earth

4 ft. base, 2 ft. high, W. of cor.

Land, nearly level, slopes to the West.

Soil, deep, rich, sandy loam, 1st rate.

Subsoil, gravel formation.

Undergrowth, short sage brush and shrub scale.

August 3: at this cor. I set off 17' 40"

N. on the decl. arc, and at 12' 06" ^{1st}

P.M. 1. m. t. observes the sun. on

the mer; the resulting lat. is

36° 56' N.

N 89° 58' E. on a random line
bet. secs. 22 and 27.

40.00

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

80.02

Intersect N. and S. line, at the cor.
of secs. 22, 23, 26 and 27.

Thence I run

S 89° 58' W. on a true line

bet. secs. 22 and 27.

Over nearly level land, through
sparse undergrowth of sage brush
and shrub scale.

12.58

Ascend, over steep ascent of bench,
bears, NE. and S., 60 feet, to

16.00

Top of bench, bears, NE. and S.W.

Thence over nearly level land,

40.01

Set an iron post, 3 ft. long, 1 in.
in diam.

Chains. 26 ins. in the ground for $\frac{1}{4}$ sec. cov.
 nhd. on brass caps.
 $\frac{1}{4}$ S 22 on N. half.
 $\frac{1}{4}$ S 27 on S. 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 cov.
 43.75 Wash, 20 lbs. wide, 4 ft. deep,
 Course S W.
 56.97 Wash, 10 lbs. wide, 3 ft. deep, Course S W.
 80.02 The cov. of secs. 21, 22, 27 and 28.
 Land nearly level, slopes to S W.
 Soil, deep, rich sandy loam, 1st red.
 Subsoil, lime, clay and gravel
 formations.
 Undergrowth, sage brush and
 shadscale on mile.

N 0° 02' W. bet. secs. 21 and 22.
 Over gently rolling land,
 through sparse undergrowth of
 sage brush.
 8.25 Wash, 20 lbs. wide, 2 ft. deep, Course S W.
 31.30 Wash, 30 lbs. wide, 5 ft. deep, Course S W.
 36.00 Wash, 20 lbs. wide, 4 ft. deep, Course S W.
 40.00 Set an iron post, 3 ft. long, 1 in. dia.,
 26 ins. in the ground for $\frac{1}{4}$ sec. cov.;
 nhd. on brass caps.
 $\frac{1}{4}$ S 21 on W. half.
 S 22 on E 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 cov.
 48.25 Foot of gypsum hills, bears West
 and SE, ascend 30 ft to
 52.70 Spur, projects W.
 Descend 30 ft to.
 57.50 Foot of hills, bears NE. and W.
 Thence over nearly level land,
 sloping W est.

Subdivision of T. 41 N., R. 2 W.

BOOK 2849

Chains 80.00

Set an iron post, 3 ft. long, 3 in. dia.,
 24 ins. in the ground for cor. of sec.
 15, 16, 21 and 22, mkt. on brass cap.
 T 41 N S 16 in NW.
 R. 2 W S 15 in NE.
 S 22 in SE and
 S 21 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 nearly level and hilly.
 Soil, rich gravelly and red clay
 loams, 12 to 20 ins. deep, 1st rate.
 Subsoil, gravel and white lime
 formation.
 Undergrowth, short sage brush and
 shadscale on mile.

40.00
80.00

N 89° 58' E. on a random line,
 bet. sec. 15 and 22.
 Set temp. 1/4 sec. cor.
 Intersect N. and S. line, 2 chs. S.
 of the cor. of sec. 14, 15, 22 and 23.
 Thence I run
 S 89° 57' W. on a true line
 bet. sec. 15 and 22.
 Over rolling gypsum hills, through
 sparse undergrowth of sage brush.
 Ascend 36 feet to
 Spur, projects N. 1 chain.
 Descend over hilly land, 30 ft. to
 foot of hills, bear. N 10° W. and
 S 10° W.

.90
24.00

Thence over gently rolling land
sloping West.

40.00

Set an iron post, 3 ft. long, 1 in.
 dia., 26 ins. in the ground for
 1/4 sec. cor.; mkt. on brass cap.
 1/4 S 15 on N. half.
 S 22 on S. half.

Chains dig pits 18x18x12 ins, E. and W. of post. 3 ft. dia; and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
 80.00 The cor. of secs. 15, 16, 21 and 22. Land gently rolling and hilly. Soil, East. 24.00 chs. heavy red clay, 2nd rate, with a gypsum subsoil.
 West. 56.00 chs. deep rich gravelly loam, 1st rate; subsoil, gravel.
 Undergrowth sage brush on hills.
 August 3, 1911.

August 4: at 8^h 06^m a.m. l.m.t. I set off 36° 56' 3/4" on the lat. arc, 172° 12' 1/2" on the decl. arc and determine a mer. with the solar at the cor. of secs. 15, 16, 21 and 22.
 Thence I run N 0° 02' W. bet. secs. 15 and 16.
 Over gently rolling land through dense undergrowth of sage brush and schadscale.
 3.30 Wash. 40 lbs. wide, 4 ft. deep. Course S W.
 7.40 Wood road, bears N E. and S W.
 12.10 Wash. 10 lbs. wide, 3 ft. deep. Course S W.
 26.00 Foot of gypsum hills, bear E. and W.
 28.00 Spur, 60 ft. above sec. cor. projects W. Ascend 40 ft. &
 30.10 Hollow, course N W.
 Ascend 20 ft. to
 34.00 Spur, projects N W.
 Descend. over rolling hills 30 ft. to
 40.00 Set an iron post. 3 ft. long 1 in. dia; 26 ins. in the ground for 1/4 sec. cor. mkd. on brass cap:
 1/4 S 16 on W. half.
 S 15 on E. half; dig pits

Subdivision of T. 41 N., R. 2 W.

BOOK

Chains.

18 x 18 x 12 ins., N. and S. of post, 3 ft. dia., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft high, W. of cor.

80.00

Ascend rolling hills. 30 feet to an small hollow, course N W. Set an iron post, 3 ft. long, 3 ins. dia.; 24 ins. in the ground for cor. of secs. 9, 10, 15 and 16; tubed. or brass cap:

T 41 N S 9 in N W.

R 2 W S 10 in N E.

S 15 in S E. and

S 16 in S W, quadrant; raise

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

Pits impracticable.

Land, nearly level and rolling hills; slopes to the West.

Soil: South 26.00 chs. dup, rich sandy loam, 1st rate, gravel subsoil.

North. 54.00 chs. gravel and heavy clay formation 2nd rate. Subsoil, shale rock.

Undergrowth sage brush and shadscale.

Land, hilly 54.00 chains.

40.00

80.00

N 89° 57' E. on a random line bet. secs. 10 and 15:

Set temp. 1/4 sec. cor.

Intersect N. and S. line at the cor. of secs. 10, 11, 14 and 15:

Thence I run

S 89° 57' W. on a true line bet. secs. 10 and 15:

Over rolling hilly land, through sparse undergrowth of sage brush and shadscale.

Ascend along N. point of hills. and S. edge of hollow. 30 ft. to

Chain.
 40.00 Set an iron post, 3 ft. long, 1 in. dia.; 26 ins. in the ground for $\frac{1}{4}$ sec. cor.; mkd. on brass cap.
 $\frac{1}{4}$ S 10 on N. half.
 S 15 on S. 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.

42.95 Follow course S W.
 Ascend 40 feet to

48.00 Spur, projects South.
 Descend 70 feet to

61.50 The same hollow, course N. 80° W.; ascend 60 ft. to

65.00 Spur, projects North 1 Chain.
 Descend, 70 feet to

80.00 The cor. of secs. 9, 10, 15 and 16.
 Land hilly, slopes to N W.
 Soil, shale and heavy clay formation, 10 to 15 ins. deep, 3rd rate.
 Subsoil, shale.
 Undergrowth, sagebrush and shad scale, on hill.

N 70° 02' W. bet. secs. 9 and 10.
 Over rolling gypsum hills, through sparse undergrowth of sage brush and shad scale.
 Descend 20 feet to

5.50 Wash, 12 lbs. wide, 4 ft. deep, in hollow course W est.
 Ascend 40 feet to

40.00 Set an iron post, 3 ft. long, 1 in. dia.; 26 ins. in the ground for $\frac{1}{4}$ sec. cor.; mkd. on brass cap.
 $\frac{1}{4}$ S 9 on W. half.
 S 10 on E. half; dig pits 18x18x12 ins., N. and S. of post, 3 ft.

BOOK

Chains	dist; and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high. W. of cor. Ascend 30 feet to.
48.00	Spur projects W.; Ascend 50 feet to.
62.00	Scare hills, bear NE. and SW.
	Thence across nearly level land.
80.00	Set an iron post, 3 ft. long, 3 ins. dia, 24 ins. in the ground for cor. of secs. 3, 4, 9 and 10. n.b. on brass cap:
	T 41 N S 4 in NW.
	R 2 W S 3 in NE.
	S 10 in SE, and
	S 9 in SW quadrant; dig pits
	18 X 18 X 12 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, lilly and nearly level.
	Soil, South, 62.00 chains, deep, heavy
	red clay, gravel subsoil, 2 nd rate.
	North 1000 chains, deep rich
	sandy loam, 1 st rate;
	subsoil gravel.
	Undergrowth, sage brush and
	shadscale.
	August 4: at this sec. cor. I set off
	10° 24 1/2' N, on the decl. arc, and at
	12 ^h 06 ^m P.M. 1. m. t. observe the sun.
	on the mer; the resulting lat. is.
	36° 58 1/2' N.
40.00	N 89° 57' E. on a random line, bet. secs. 3 and 10.
80.00	Set temp. 1/4 sec. cor.
80.00	Intersect N. and S. line, 2 lks. N. of the cor. of secs. 2, 3, 10 and 11.
	Thence I run
	S 89° 58' W. on a true line
	bet. secs. 3 and 10.
	Over rolling North slopes of hills, through sparse undergrowth of

Chains. sage brush.
 40.00 Set an iron post, 3 ft. long, 1 in. dia.;
 26 ins. in the ground for $\frac{1}{4}$ sec. cov.;
 Nbd. on brass cap.
 $\frac{1}{4}$ S 30 W N. half.
 S 10 on S half: dig pits
 18x18x12 ins. E. and W. of post, 3 ft.
 dia.; and raise a mound of earth
 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. of cov.
 72.50 80 feet below sec. cov.
 Foot of hills, bears N 10° E. and S 10° W.
 Thence over level land.
 80.00 The cov. of secs. 3, 4, 9 and 10.
 Land, rolling hills and nearly level,
 gentle slope to the North.
 Soil, East. 72.50 Chains, heavy
 Clay soil, 2nd rate.
 West. 7.50 Chains, deep, rich
 sandy loam, 1st rate.
 Subsoil, shale formation.
 Undergrowth, sage brush.

40.00 N 0° 07' W. on a random line
 bet. secs. 3 and 4.
 Set temp. $\frac{1}{4}$ sec. cov.
 80.16 Intersect N. bdy. of the TP; 7 lks
 E. of the cov. of secs. 3, 4, 33. and 34
 heretofore described
 Thence Iron
 S 0° 10' E. on a true line
 bet. secs. 3 and 4.
 Over rolling bench land, through
 dense undergrowth of sage brush.
 25.40 Edge of bench and top of 40 foot
 perpendicular sandstone ledge, bears
 N E. and S W.
 Descend 250 feet to
 32.70 Foot of bluff, bears N E. and S W.
 Thence over nearly level land.
 40.16 Set an iron post, 3 ft. long, 1 in. dia.;
 26 ins. in the ground for $\frac{1}{4}$ sec. cov.;

BOOK

Chains.

Mkd. on brass caps:

$\frac{1}{4}$ S 4 on W. half.

S 3 on E. 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.

50.88 Road, from Fredonia to Johnsons, bears NE: and S W.

72.20 Wash, 60 lbs. wide, 7 ft. deep, course S W.

80.16 The cor. of secs. 3, 4, 9 and 10.

Land, gently rolling, rough mountains and nearly level.

Soil, North 25:40 chains, gravelly 2nd rate. South, 47.50 chains, rich sandy loam, 1st rate with gravel subsoil.

Mountainous land, Soil, rocky, 3rd rate with sandstone subsoil.

Undergrowth, sage brush,

Land rough mountainous
 7.30 chains.

Andrew Nelson.

August 4, 1911.

U. S. Transitman

August 4: At 8^h 06^m A.M. I set off 36° 54' on the lat. arc: 17° 27 $\frac{1}{2}$ ' on the decl. arc and determine a mer. with the solar at the standard cor. of secs. 32 and 33 on the S. bdy. of the T.P. heretofore described.

Thence I run

N 0° 03' W. bet. secs. 32 and 33.

Over rolling land, through scattering undergrowth of sage brush greasewood and rabbit brush.

20.00 Foot of steep ascent of bench, bears N 70° E and S 80° W.

Ascend 85-ft. to.

28.00 Top of bench, bears E. and S 60° W.

Chains. Ascend gradually over rolling bench land.

40.00 Set an iron post, 3 ft. long, 1 in. dia.; 26 ins. in the ground for $\frac{1}{4}$ sec. cor.;
nubd. on brass cap:
 $\frac{1}{4}$ S 32 on W. half.
S 33 on E. 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.

72.11 Old road, bears E. and W.

80.00 Set an iron post, 3 ft. long, 3 ins. dia.; 24 ins. in the ground for cor. of sec. 28, 29, 32 and 33, nubd. on brass cap:
T 41 N S 29 in NW.
R 2 W S 28 in NE.
S 33 in SE. and
S 32 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, slopes to South and NW.
Soil sup. sandy loam and clay, 2nd rate.
Subsoil, shale formation.
Undergrowth sage brush, shadscale and greasewood, on mile

East on a random line.
bet. sec. 28 and 33.

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

80.13 Intersect N. and S. line, at the cor. of sec. 27, 28, 33 and 34.
Thence I run
West on a true line
bet. sec. 28 and 33.

Over gently rolling land through dense undergrowth of greasewood, sage brush and cactus.

22.70 Wash, 10 lbs. wide, 1 ft. deep, corner N.

Submission of T. 41 N., R. 2 W.

BOOK 2349

Chains.
40.06 1/2

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

1/4 S 28 on N. half.

S 33 on S. half: dig

posts 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.

76.00

Old road, bears N.E. and S.W.

80.13

The cor. of sec. 28, 29, 32 and 33, land gently rolling. slopes to the N.W.

Soil, light sandy loam and gravelly, 12 to 18 ins. deep. 2nd rate. Subsoil, gravel hardpan. Undergrowth, sage brush, grease wood and shadscale on mile.

N 0° 53' W.

bet. sec. 28 and 29.

Over gently rolling land, through dense undergrowth of short shadscale and white sage brush.

22.00

Road, bears S E and N 15° W.

24.41

Same road, bears S 15° W. and N E.

32.27

S E. cor. of fence, bears West, 75 lbs. dist; Wire fence, bears S 79° W. and N 6 3/4° E;

38.70

Wire fence, bears, N 6 3/4° E. and S 6 3/4° W. Enter field, which contains the Reservoir Site.

40.00

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

1/4 S 29 on W. half.

S 28 on E. half: dig posts

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.

54.64

Barbed wire fence bears N 36° W. about 10 chs. and S 36° E.

Chains.
 78.00 Enter cultivated land, bears $N 10^{\circ} E$, and $S 10^{\circ} W$.
 88.00 Set an iron post, 3 ft. long, 3 ins. dia.;
 24 ins. in the ground for. Cor. of secs.
 20, 21, 28 and 29, Nbd. on brass caps.
 $T 41 N$ $S 20$ in $N W$.
 $R 2 W$ $S 21$ in $N E$.
 $S 28$ in $S E$, and
 $S 29$ in $S W$. quadrant; dig
 pits $18 \times 18 \times 12$ ins. in each sec.;
 $5 \frac{1}{2}$ ft. dia.; and raise a mound
 of earth, 4 ft. base, 2 ft. high, W .
 of cor.
 Land, nearly level, gentle slope
 to the $N W$.
 Soil, deep, rich sandy loam.
 Subsoil, heavy clay.
 Undergrowth shad scale and
 white sage brush, on 78.00 chains.
 August 4: at this cor. I set off
 $12^{\circ} 24' N$. on the decl. arc and at
 $12^h 06^m$ P.M. 1. M.T. observe the sun
 on the mer; the resulting lat. is $36^{\circ} 56' N$.

East on a random line
 bet. secs. 21 and 28.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.14 Intersect N . and S . line, 2 lbs. N .
 of the Cor. of secs. 21, 22, 27 and 28.
 Thence I run
 $N 89^{\circ} 59' W$, on a true line
 bet. secs. 21 and 28
 Over gently rolling land, through
 dense short undergrowth of shad-
 scale and scattering grease wood.
 16.04 Road, from Fredonia to Ryan and
 Buckskin Mountains, bears $N W$, and $S E$.
 23.75 Kaibab Forest Reserve telephone
 line bears $N 28^{\circ} 27' W$, and $S 28^{\circ} 27' E$.
 40.07 Set an iron post, 3 ft. long, 1 in. dia.;

BOOK 2849

Charuco. 26 ins. in the ground for $\frac{1}{4}$ sec. cor.;
 Nhd. on brass cap:
 $\frac{1}{4}$ S 21 on N. half.
 S 28 on S. 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.
 73.16 Old road, bears N 6 $\frac{3}{4}$ E. and S 6 $\frac{3}{4}$ W.
 73.57 Barbed wire fence, bears N 6 $\frac{3}{4}$ E. and S 6 $\frac{3}{4}$ W.
 Thence across cultivated land.
 80.14 The cor. of secs. 20, 21, 28 and 29,
 Land, gently rolling, slopes to West.
 Soil, deep, rich sandy loam, 1st rate.
 Subsoil, clay and gravel formation.
 Undergrowth of short shade trees
 and grease wood of one mile.

N 0° 03' W. bet. secs. 20 and 21
 Over level cultivated land.
 13.90 Barbed wire fence, bears S 89° E and
 N 89° W, 1 $\frac{1}{2}$ chs., thence North.
 Enter rabbit brush, 4 to 6 ft. high,
 bears E. and W.
 40.00 Set an iron post, 3 ft. long, 1 in. dia., 26
 ins. in the ground for $\frac{1}{4}$ sec. cor.;
 Nhd. on brass cap:
 $\frac{1}{4}$ S 20 on W. half.
 S 21 on E. 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.
 60.22 Barbed wire fence, and bare rabbit
 brush, bears E. and W.
 Thence across cultivated land.
 64.40 Barbed wire fence, bears E. and W.
 72.22 Barbed wire fence and S. side of street
 bears E. and W.
 73.76 Barbed wire fence, bears E. and W.
 76.74 Barbed wire fence, bears E. and W.
 80.00 In field;
 Set an iron post, 3 ft. long, 3 ins. dia.,

Chains 24 ins. in the ground for cor. of
secs. 16, 17, 20 and 21, with brass cap;
T 41 N S 17 in NW.
R 2 W S 16 in NE.
S 21 in SE. and
S 20 in SW quadrant; dig
pits 18x18x12 ins. in each sec.;
5-1/2 ft. dia and raise a mound
of earth, 4 ft. base, 2 ft. high W.
of cor.
This cor. is situated in the East lot
of the village of Fredonia from
which the S.E. cor. of Hayesock's
store, bears N 54° 03' W, 5.53 chs.
distant.
Land, nearly level.
Soil, deep, rich sandy loam, very
fertile, 1st rate.
Subsoil, gravel formation.
Undergrowth of greasewood on
46.72 chains.

S 89° 59' E. on a random line,
bet. secs. 16 and 21.
40.00 Set temp. 1/4 sec. cor.
80.20 Intersect N. and S. line, at the
cor. of secs. 15, 16, 21 and 22.
Thence I run
N 89° 59' W. on a true line
bet. secs. 16. and 21.
Over nearly level land through
sparse undergrowth of shadscale.
1.80 Wash. 20 lbs. wide, 3 ft. deep. course
S 70° W.
3.42 Same wash. 20 lbs. wide, 3 ft. deep.
Course N 80° W.
7.85 Same wash. 20 lbs wide, 3 ft. deep. course S 20° W.
40.00 Wood road bears N 80° E. and S 80° W.
40.10 Set an iron post, 3 ft. long, 1 in. dia,
26 ins. in the ground for 1/4 sec. cor.,
with brass cap.

BOOK

Chains	
	$\frac{1}{4}$ S 16 on N. half.
	S 21 on S. 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.
43.20	Cemetery, bears South 5 Chs. distant.
59.35	Wood road, bears N 80° W and S 80° E.
60.20	Irrigation ditch, 15 lks wide, 2 ft. deep. Course S 20° W.
67.60	Kaibab Forest Reserve telephone line bears N 28° 28' W. and S 28° 28' E.
67.74	Road, to Ryaw and Buckskin mountains bears, S 90° E. and N 20° W.
68.88	Old road, bears, N 6 $\frac{3}{4}$ ° E. and S 6 $\frac{3}{4}$ ° W.
69.45	Barbed wire fence bears N 6 $\frac{3}{4}$ ° E. and S 6 $\frac{3}{4}$ ° W; thence across cultivated land
80.20	The cor. of secs. 16, 17, 20, and 21. Land, nearly level. Soil, deep, rich sandy loam, very fertile, 1st rate. Subsoil, gravel and clay. Undergrowth, shade on East, 69.45- chains.
	August 4, 1911.
	August 5: at 8 ^h 06 ^m . A.M. l.m.t. I set off 36° 56 $\frac{3}{4}$ ' on the lat. arc, 17° 11 $\frac{1}{2}$ ' N. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 16, 17, 20 and 21.
	Thence I run N 0° 03' W. bet. secs. 16 and 17.
	Over level, cultivated land, through the East. lots of 7 redonia.
.60 $\frac{1}{2}$	S.E. cor. of barn, bears west, 3 lks. dist.
1.77.	Barbed wire fence and S. side of street bears E. and W.
3.22	Barbed wire fence and N. side of street bears E. and W.
11.29	Barbed wire fence and S. side of street

- Chains bears E. and W.
- 12.77 Barbed wire fence and N. side of street, bears E. and W.
- 20.73 Barbed wire fence and S side of street, bears E. and W.
- 21.23 Barbed wire fence and N. side of street, bears E. and W.
- 23.00 Irrigation ditch, 10 lbs. wide, 2 ft deep. Course S 60° E.
- 23.12 Kaitake Forest Reserve telephone line, bears N 28° 26' W and S 28° 26' E.
- 32.87 Barbed wire fence and N. bdy. of Fredonia, bears E. and W.
- Thence over gently rolling land, through sparse undergrowth of sage and rabbit brush.
- 40.00 Set an iron post, 3 ft long, 1 in dia.; 26 ins. in the ground for 1/4 sec. cor.; nkd. on brass cap:
 1/4 S 17 on W. half.
 S 16 on E. half; dig pits 18 x 18 x 12 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.
- 64.42 Road, from Fredonia to Johnson, bears N E. and S W.
- 80.00 Set an iron post, 3 ft long, 3 in. dia.; 24 ins. in the ground for cor. of secs. 8, 9, 16 and N. nkd. on brass cap:
 T 41 N S 8 in N W.
 R 24 W S 9 in N E.
 S 16 in S E and
 S 17 in S W quadrant; dig pits 18 x 18 x 12 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, nearly level and gently rolling, with a gentle slope to the S W.
 Soil, deep, rich, sandy loam, 1st rate.
 Subsoil, gravel.
 Undergrowth, sage and rabbit brush
 Land gently rolling 47.13 Chains.

Chains. S 89° 59' E. on a random line,
 -bet. sec. 9 and 16,
 40.00 Set temp. 1/4 sec. cor.
 80.20 Intersect N. and S. line at the cor.
 of sec. 9, 10, 15 and 16.
 Thence I run
 N 89° 59' W. on a true line,
 bet. sec. 9 and 16.
 Over gently rolling land, through
 dense undergrowth of sage brush,
 scattering greasewood and
 rabbit brush.

40.10 Set an iron post, 3 ft. long, 1 in. dia.;
 26 ins. in the ground for 1/4 sec. cor.;
 mhd. on brass cap:
 1/4 S 9 in N. half.
 S 16 in S. 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.

48.50 Wash, 25 lbs. wide, 5 ft. deep, course
 S 40. Thence over nearly level land,
 bearing N E. and S E.

49.00 Road, from Fredonia to Johnson,
 bears N E. and S W

80.20 The cor. of sec. 8, 9, 16 and 17.
 Land, gently rolling and nearly
 level.
 Soil, East, 48.50 chains, heavy
 adobe clay, 2nd rate
 West, 37.50 chains, deep, rich,
 sandy loam, 1st. rate.
 Subsoil, shale and gravel.
 Undergrowth, sage brush, greasewood
 and rabbit brush on mile

N 0° 03' W. bet sec. 8 and 9
 Over gently rolling land, through sparse
 undergrowth of sage brush and greasewood

1.00 Wash, 10 lbs. wide, 1 ft. deep, course S W

37.55 Wash, 10 lbs. wide, 5 ft deep.

Chains.	Course S. 80° W.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor.;
	Nhd. on brass cap.
	$\frac{1}{4}$ S 80° W half.
	S 90° E. half; dig pits
	18x18x12 ins.; N. and S. of post, 3 ft. dia.;
	and raise a mound of earth
	3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high. W. of cor.
40.42	Main wash, 20 lbs. wide, 8 feet deep, course S 50° W.
49.00	Ascend over low rolling gypsum hills, bear N.E. and S.W. 140 feet.
70.00	Spur. of hills projects S 70° W.
	Descend 10 feet.
80.00	Set an iron post, 3 ft. long, 3 ins. dia.;
	24 ins. in the ground for. cor. of
	secs. 4, 5, 8 and 9. Nhd. on brass cap.
	T 41 N S 5 in NW.
	R 2 W S 4 in NE.
	S 9 in S E. and
	S 8 in S W. quadrant; dig
	pits 18x18x12 ins. in each sec.; 5 $\frac{1}{2}$ ft. dia.;
	and raise a mound of earth,
	4 ft. base, 2 ft. high, W. of cor.
	Land, gently rolling and hilly.
	Soil, South 49.00 chains, deep, rich sandy loam, 1st rate.
	North, 31.00 chains, heavy white clay,
	2nd rate. Subsoil, gravel and shale formations.
	Undergrowth, sage brush and grass-wood.
	Land, hilly, 31.00 chains.
4.50	S 89° 59' E. on a random line bet. secs. 4 and 9.
	August 5: at this station, I set off
	17° 08' N. on the decl. arc and at 12 ^h 06 ^m P.M. 1. m. t. observe the sun on the mer; the resulting latitude is 36° 58' N

Chains	
40.00	Six temp $\frac{1}{4}$ sec. cor.
80.24	Intersect $\frac{1}{4}$ N. and S. line at the cor. of secs. 3, 4, 9 and 10. Thence I run N 89° 59' W. on a true line. bet. secs. 4 and 9. Over gently rolling land through sparse undergrowth of sage and rabbit brush.
9.25	Main wash, 40 lks. wide, 12 ft. deep, course S 40 W.
32.70	Wash, 25 lks. wide, 7 ft. deep, course S 40 W.
38.34	Road, from Fredonia to Johnson, bears N E. and S W.
40.12	Set an iron post, 3 ft. long, 1 in. dia.; 26 ins. in the ground, for $\frac{1}{4}$ sec. cor.; mkd. on brass cap: $\frac{1}{4}$ S 4 on N. half. $\frac{1}{4}$ S 9 on S. half.; dig pits 18 X 18 X 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.
60.00	ascend, over hilly land, bearing N. and S., 25 feet to
75.75	Ridge, bears, N. and S. Descend 5 feet to
80.24	The cor. of secs. 4, 5, 8 and 9. Land gently rolling and hilly. Soil, East, 60.00 chains. deep, rich, sandy loam, 1st. rate West 20.24 chains, heavy white clay, 2nd rate. Subsoil, gravel and shale. Undergrowth, sage and rabbit brush on mile.
	N 10° 10' W. on a random line bet. secs. 4 and 5.
40.00	Six temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect N. bdy. of the TR, 12 lks. W.

Claims.	of the cor. of secs. 4, 5, 32 and 33, heretofore described. Thence I run S ⁰ 05' E. on a true line, bet. secs. 4 and 5; Over broken, mountainous land, through scattering cedar and juniper pined timber, sparse undergrowth of sage brush. Descend 40 feet to 3.00 Hollow. course N 45. Ascend 75 feet to 8.00 Top of bench land, bears N 80° W. and S 80° E. 12.00 Leave bench and timber, bears N W. and S E. Descend, over series of sandstone ledges, bearing N W. and S E, 16.00 150 feet below top: base of steep descent, bears N 40. and S E. Descend, gradually 10 feet to 20.35 Wash, 15 lbs. wide, 12 ft. deep. course S 40. 28.15 Wash, 10 lbs. wide, 8 ft. deep. course W. ascend 20 feet to 39.50 Spur of hills, projects West. 1 claim. 40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor.; mark on brass cap: $\frac{1}{4}$ S 5 on W. half. S 4 on E. half. dig pits 18x18x12 ins. N. and S. of post, 3 ft. dia.; and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. 45.90 Wash, 10 lbs. wide, 10 ft. deep. course N 60° W; ascend 20 feet to 65.50 Ridge, bears E. and W. a high butte bears S 80° W, 12 lbs. dia.; 80.00 The cor. of secs. 4, 5, 8 and 9, Land, broken mountainous and rolling hills. Soil rocky and gypsum formation,
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BOOK

2349

Chauis. 3rd rate.
 Subsoil, sandstone and shale.
 Timber, scrub cedar and juniper
 pine on North 12 Chauis.
 Undergrowth, sagebrush.
 Land broken mountainous 16.00 chs.

Walter A. Sturtevant,
 August 5, 1911. U. S. Transitman

August 5; at 8^h 06^m. a. m. 1. m. t. I set off
 36° 54' on the lat. arc. 17° 11½' N. on
 the decl. arc. and determine a mer.
 with the solar at the standard cor.
 of secs. 31 and 32 in the S. bdy. of the
 T. heretofore described
 Thence I run
 N 0° 03' W. bet. secs. 31 and 32.
 Over rolling hills, through sparse
 undergrowth of sage brush and shrubs
 Ascend 20 ft to
 4.00 Spur, projects W. descend 40 ft. to
 9.31 Parue, course S 45° W; ascend 60 ft. to
 16.00 Top of bench land, bears N W. and
 S E; descend, gradually, over rolling
 bench land, 20 feet to
 40.00 Set an iron post, 3 ft. long, 1 in. dia.,
 26 ins. in the ground for ¼ sec. cor.
 Nhd. on brass cap:
 ¼ S 31 on W. half.
 S 32 on E. half; dig pits,
 18 x 18 x 12 ins. N. and S. of post, 3 ft.
 dia.; and raise a mound of earth,
 3½ ft. base, 1½ ft. high, W. of cor.
 63.05 Wash, 20 lbs. wide, 3 ft. deep.
 Course N W.
 80.00 80 feet below top of bench,
 Set an iron post, 3 ft. long, 2 ins.
 dia.; 24 ins. in the ground for
 cor. of secs. 29, 30, 31 and 32;
 Nhd. on brass cap;

Chains.

T 41 N S 30 in NW,
 R 2 W S 29 in NE.
 S 32 in SE. and
 S 31 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, slopes to the NW.
 Soil, South, 16.00 chains; heavy clay
 2nd rate.
 North 64.00 chains, rich sandy loam,
 1st. rate. subsoil, gravel.
 Undergrowth, sage brush and shad
 scale.
 Land, hilly, 16.00 chains.

40.00

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

80.02

Six temp. 1/4 sec. cor.
 Intersect N. and S. line, 2 lks. S
 of the cor. of secs. 28, 29, 32 and 33.
 Thence I run
 S 89° 59' 45" W. on a true line,
 bet secs. 29 and 32.

40.01

Over gently rolling land, through
 dense undergrowth of sage and rabbit
 brush, and shadscale.

Set an iron post, 3 ft. long, 1 in.
 dia., 26 ins. in the ground for
 1/4 sec. cor.; mkd. on brass cap:
 1/4 S 29 on N. half.

S 32 on S. half: dig pits
 18x18x12 ins., E. and W. of post,
 3 ft. dist; and raise a mound of
 earth, 3 1/2 ft. base, 1 1/2 ft. high,
 N. of cor.

80.02

The cor. of secs. 29, 30, 31 and 32
 Land, gently rolling, slopes to the
 NW.
 Soil, loose sandy loam, 2 to 8 ft.
 deep, 2nd rate.

BOOK

Chains Subsoil, gravel, and clay hardpan,
Undergrowth, sage and rabbit brush
and shadescale.

- West on a random line
bet. secs. 30 and 31.
- 40.00 Set temp $\frac{1}{4}$ sec. cor.
- Aug. 5-: at this cor. I set off $17^{\circ}08\frac{1}{2}'$ N,
on the decl. arc, and at $12^{\circ}06'$ N.
- P. M. 1. M. T. observe the sun on
the mer; the resulting lat. is $36^{\circ}55'$ N.
- 79.93 Intersect W. bdy. of the TP. at the cor.
of secs. 29, 30, 31 and 32. Therefore
described.
Thence I run
East, on true course,
bet. secs. 30 and 31.
- Over gently rolling land through
undergrowth of sage brush and
scattering greasewood.
- 6.58 Barbed wire fence, bears S 4° W.,
3 chs.; thence S 80° E., and N 4° E.
- 39.93 Set an iron post, 3 ft. long, 1 in. dia.,
26 ins. in the ground for $\frac{1}{4}$ sec. cor.,
mkd. on brass cap:
 $\frac{1}{4}$ S 30 on N. half,
S 31 on S. half; raise a
mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
N. of cor. Pits impracticable.
- 46.04 Barbed wire fence, bears N. and S.,
Robson's house bears N $34^{\circ}05'$ E., 30 chs.
- 48.39 W. bank of Kanab creek wash, 15 ft. high,
bears N. and S.
- 49.29 Kanab creek, 4 lks. wide, 3 ins.
deep, clear water, course S 20° W.
- 49.90 East bank of wash, 15 ft. high,
bears N. and S.
- 79.93 The cor. of secs. 29, 30, 31 and 32.
Land, gently rolling, slopes to
Kanab creek.
Soil, loose, rich, sandy, 2 no rate. ✓

Chains. Subsoil, clay hard pan.
Undergrowth, sagebrush and greasewood.

- No 03' W. bet. secs. 29 and 30.
Crew nearly level land through sparse undergrowth of sagebrush and shadscale.
26.16 Old road, bears E. and W.
27.20 Barbed wire fence and siter cultivated land, bears E. and W.
34.91 Old road, bears E. and W.
40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor. in nhd. on brass cap;
 $\frac{1}{4}$ S 30 on W half.
S 29 on east 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.
40.77 Barbed wire fence, bears E. and W.
50.96 Barbed wire fence, bears E. and W.
51.00 Road, bears E. and W.
55.96 Barbed wire fence bears E. and W.
66.08 Irrigation ditch, 10 lbs. wide, 1 ft. deep, course S W. Leave cultivated land, bears NE. and SW.
80.00 Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground for cor. of sec. 19, 20, 29 and 30, nhd. on brass cap;
T 41 N S 19 in NW.
R 2 W S 20 in NE.
S 29 in SE. and
S 30 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, nearly level, slopes SW.
Soil, deep, rich, sandy loam, 1st rate.
Subsoil, gravel.
Undergrowth, sagebrush and shadscale on mile

N 89° 59' E. on a random line bet. secs. 28 and 29.

BOOK

Chains
 40.00 Set temp. $\frac{1}{4}$ sec. cov.
 79.93 Intersect N. and S. line, at the
 cor. of secs. 20, 21, 28 and 29.
 Hence I run
 $S 89^{\circ} 59' W.$ on a true line,
 bet. secs. 20 and 29.
 Over nearly level land through dense
 undergrowth of grease wood.
 35.40 Top of earth dam, 4 ft. high, bears N.
 10 chains and $S 5^{\circ} 10' W.$, about 40.00 chs..
 35.70 Road from fields to Fredonia, bears N. and S.
 36.30 Barbed wire fence and enter cultivated
 land, bears N. and S.
 39.96 $\frac{1}{2}$ Set an iron post, 3 ft. long, 1 in. dia.;
 26 ins. in the ground for $\frac{1}{4}$ sec. cov.;
 nkd. on brass cap:
 $\frac{1}{4}$ S 20 on N. half.
 $S 29$ on S half. dig
 pits 18 X 18 X 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 cov.
 Outlet of reservoir, bears $S 56^{\circ} 36' E.$;
 6.38 chs. distant.
 43.40 Leave cultivated land, bears N. and S.
 48.10 Road, bears N. and S.
 56.75 Road, bears N. and S.
 67.75 Road, bears N. and S.
 79.93 The cor. of secs. 19, 20, 29 and 30,
 Land nearly level, with a gentle slope to
 the SW.
 Soil, deep rich sandy loam, 1st rate.
 Subsoil, clay and gravel.
 Undergrowth, grease wood and
 sage brush.
 Land, cultivated, 7.10 chains.
 August 5, 1911.

August 7: at 8^h 06^m a. m. l. m. t. Drex
 $36^{\circ} 56'$ on the lat. arc, $16^{\circ} 39' N.$
 on the decl. arc, and determine

Chains

a meridian with the solar at the cor. of secs. 19, 20, 29 and 30.

Thence I run West on a random line bet. secs. 19 and 30.

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

79.83 Intersect W. bdy. of the TP, at the cor. of secs. 19, 24, 25 and 30.

Thence I run East on a true line bet. secs. 19 and 30.

Over loose shifting sand, through scattering undergrowth of greasewood.

39.25 Thence over nearly level land.

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

$\frac{1}{4}$ S 19 on N. half.

S 30 on S. half; dig pits 18x8x12 ins; E. and W. of post, 3 ft. dia.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high. N. of cor.

49.50 Either Kanab Creek wash; 25 ft. bank, bears N.W. and S.E.

54.30 Kanab Creek, 20 lbs. wide, 3 ins. deep, clear water, course S.W.

61.22 Leave wash, bears N.E. and S.W.

64.09 Barbed wire fence bears, N. and S.

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

Land, nearly level, slopes S.E.

Soil, West. 39.25; loose shifting sand, 3rd rate.

East. 40.58 chains. deep, rich sandy loam, 1st. rate.

Subsoil, gravel

Undergrowth, greasewood.

Andrew Nelson
U.S. Transitman.

August 7: at 8^h 06^m A.M. 1. m. t. I set off $36^{\circ} 56'$ on the lat. arc, $16^{\circ} 39'$ N.

BOOK

Chains on the decl. are. and determine a mer. with the solar at the cor. of secs. 19, 20, 29 and 30.
 Thence I run
 70° 03' W. bet. secs. 19 and 20.
 Over nearly level land through dense undergrowth of grease wood.
 38.00 Grad. bears N E. and S W.
 40.00 Set an iron post. 3 ft. long, 1 in. dia. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. Nkd. on brass cap:
 $\frac{1}{4}$ S 19 on W. half.
 S 20 on E. half; dig pits 18 X 18 X 12 ins. N. and S. of post. 3 ft. bet.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 40.66 Pole fence and enter cultivated land bears E. and W.
 50.74 Barbed wire fence and leave cultivated land, bears E. and W.
 59.65 Enter, Kanab. Creek wash, banks 10 feet high, bears N E. and S W.
 60.00 Kanab. Creek. 10 lbs. wide, 3 ins. deep. Course S W.
 60.95 N. bank of Kanab creek wash, banks 10 ft. high, bears N E. and S W.
 69.50 Road from Fredonia to Moenassie, bears N E. and S W.
 80.00 Set an iron post. 3 ft. long, 3 ins. dia.; 24 ins. in the ground for cor. of secs. 17, 18, 19 and 20, Nkd. on brass cap:
 T 41 N S 18 in N W.
 R 2 W S 17 in N E.
 S 20 in S E. and
 S 19 in S W. quadrants; dig pits 18 X 18 X 12 ins., in each sec.; $5\frac{1}{2}$ ft. dia.; and raise a mound of earth. 4 ft. base, 2 ft. high, W. of cor.
 Land, nearly level, slopes to Kanab Creek
 Soil, deep; rich sandy loam, 1st rate.

Chains	Subsoil, gravel. Undergrowth, grass wood. Land, cultivated 10-18 Chains
40.00	N 89° 59' E. on a random line bet. secs. 17 and 20.
79.95	Set temp. ¼ sec. cor. Intersect N. and S. line, 9 lks. S. of the cor. of secs. 16, 17, 20 and 21. Thence, I run
	S 89° 55' W. on a true line bet. secs. 17 and 20.
	Over level, cultivated land, through the village of Fredonia.
.61	Barbed wire fence bears N. and S.
2.69	Center of the South Side of A. E. Lewis house, bears North 84 links dist.
3.33	Barbed wire fence bears N. and S.
5.54	Center of S. side of William Judd's house, bears North, 67 links. dist.
7.48	Barbed wire fence and East side of street, bears N. and S.
8.65	Barbed wire fence and West side of street bears N. and S.
11.82	Enter Corral, bears N. and S.
12.72	Center of South side of frame barn bears North, 67 links. dist.
13.72	Leave Corral, bears N. and S.
15.95	Center of South side of Jensen Hotel, bears North, 84 links. dist.
16.83	Board fence and E. side of street, bears N. and S.
17.10	Irrigation ditch, 10 lks wide, 2 ft. deep. Course S.
18.30	Woven wire fence and W. side of street bears, N. and S.
19.05	Center of South side of Reese B. Griffiths house, bears North 77 lks. dist.
22.35	Picket fence, bears N. and S.
22.85	Center of the South Side of William Brooks's house, bears North, 62 links.

Subdivision of T. 41 N., R. 2 W.

- | Chains | |
|--------|---|
| 24.48 | Center of North Side of barn, bears South 50 links. |
| 26.33 | Woven wire fence and East side of street, bears N. and S. |
| 27.82 | Woven wire fence and West side of street bears N. and S. |
| 28.43 | S.E. cor. of Dan Judd's house, bears North, 72 links. |
| 28.95 | Center of south side of frame building, bears North, 5-links. |
| 31.75 | Irrigation ditch, 4 lks. wide, 2 ft. deep and board fence, bears N. and S. |
| 35.78 | Board fence and E. side of street, bears N. and S. |
| 36.82 | Barbed wire fence and West side of street bears N. and S. |
| 39.97½ | Set an iron post, 3 ft long, 1 in. dia, 26 lines in the ground for ¼ sec. cor; used, or brass. Cap. |
| | ¼ S 17 on N. half. |
| | S 20 on S. 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. |
| 44.82 | Barbed wire fence, and leave cultivated land, bears N. and S. |
| 46.80 | Kauab creek, 3 lks. wide, 2 ins. deep, in wash, 50 links wide, 8 ft. deep, course S W. |
| 59.95 | Road, from Fredonia to Moccasin bears, N W. and S E. |
| 66.31 | Road, from Fredonia to Moccasin, bears, N E. and S W. |
| 73.85 | Wash, 10 links wide, 3 ft. deep, course S. |
| 79.95 | The cor. of secs. 17, 18, 19 and 20. |
| | Land, nearly level and level, |
| | Soil, deep, rich sandy loam, 1 strata |
| | subsoil, gravel. |
| | Undergrowth of short shed scale on |
| | West 35.13 chains. |

Chains. Land cultivated 44.82 chains.
August 7: At this cor. I set off $16^{\circ}36'$
N. on the decl. arc, and at $12^{\text{h}}06^{\text{m}}$.
P. M. 1. m. t. observe the sun on
the meridian; the resulting lat.
is $36^{\circ}56\frac{3}{4}'$ N

Walter A. Stumm
M. S. Transitman

August 7: at $10^{\text{h}}06^{\text{m}}$ a. m. 1. m. t. I set
off $36^{\circ}56\frac{3}{4}'$ on the lat. arc, $16^{\circ}37\frac{1}{2}'$ N.
on the decl. arc and determine a
mer. with the solar at the cor. of secs.
17, 18, 19 and 20.

Thence I run
West, on a random line,
bet. secs. 18 and 19.

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

79.73 Intersect w. bdy. of the TP. at the cor.
of secs. 13, 18, 19 and 24

Thence I run
East, on a true line bet. secs. 18 and 19.
Over nearly level land, through
sparse undergrowth of sage brush and
grease wood.

4.75 Road, from Fredonia to Moccasin,
bears $N 60^{\circ} W$ and $S 60^{\circ} E$.

39.73 Set an iron post, 3 ft. long, 1 in. dia.;
26 ins. in the ground for $\frac{1}{4}$ sec. cor.;
mkd. on brass cap:

$\frac{1}{4}$ S 18 on N. half.

S 19 on S. 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.

45:25 Wash, 20 lbs. wide, 10 feet deep,
Course South.

70.00 Wash, 10 lbs. wide, 12 ft. deep, course
South.

79.73 The cor. of secs. 17, 18, 19 and 20.

Subdivision of T. 41 N., R. 24 W.

Chain. Land, nearly level, slopes South.
Soil, deep rich sandy loam, 1st rate.
Subsoil, gravel.
Undergrowth, sage brush and
grease wood on mile.

75° 53' 45" bet. secs. 17 and 18.
Over hilly land, through sparse
undergrowth of sage and rabbit brush
and black shale.

4.25 Wash, 10 lbs. wide, 3 ft. deep. course SE.
Ascend over rolling hills, bearing NE
and SW., 40 feet

40.00 Set an iron post, 3 ft. long, 1 in. dia.;
26 ins. in the ground for 1/4 sec. cor.;
nkd. on brass cap.

1/4 S 180° W. half.
1/4 S 17 on E. half; raise
a mound of stone, 2 ft. base, 1 1/2 ft.
high, W. of cor. Pits impracticable
ascend 20 feet to

45.88 Spur, project N. 88° E, descend,
rolling, 60 feet to

60.00 Foot of hills, bear NE. and SW.
Thence over gently rolling land
facing NE

80.00 Set an iron post, 3 ft. long, 3 ins.
dia.; 24 ins. in the ground for
Cor. of secs. 7, 8, 17 and 18, nkd.
on brass cap.

T 41 N S 7 in NW.
R 24 W S 8 in NE.
S 17 in SE. and
S 18 in SW quadrant; raise
a mound of stone, 2 ft. base, 1 1/2 ft.
high, W. of cor. Pits impracticable
Land, hilly and gently rolling.
Soil, heavy clay, 6 to 18 ins. deep.
2nd rate
Subsoil, shale.
Undergrowth sage and rabbit.

Chainis. brush and shade scale.
August 7: at this sec. cor. I set
off $16^{\circ}36'$ N. on the decl. arc, and at
 2^h06^m P.M. 1. m. t. observe the Sun
on the meridian; the resulting lat.
is $36^{\circ}57\frac{1}{2}'$ N.

Andrew Nelson
U.S. Transitman.

August 7: At 2^h06^m P.M. 1. m. t.
I set off $36^{\circ}57\frac{1}{2}'$ on the lat. arc,
 $16^{\circ}34\frac{1}{2}'$ N. on the decl. arc, and
determine a meridian with the
solar at the cor. of secs. 7, 8, 17 and 18.
Thence I run
 $N 89^{\circ}55' E.$ on a random line,
bet. secs. 8 and 17.

40.00 Set temp. $\frac{1}{4}$ sec. cor.
79.96 Intersect N. and S. line, 5 lks. N.
of the cor. of secs. 8, 9, 16 and 17.
Thence I run
 $S 89^{\circ}57' W.$ on a true line
bet. secs. 8 and 17.

Over gently rolling land, through dense
undergrowth of shade scale.

41
15.48 Wash, 15 lks. wide, 2 ft. deep. Course S.W.
Road, from Fredonia to Kanab,
bears N. and S.

17.60 Kanab Forest reserve telephone line
bears N. and S.

18.75 Kane County telephone line, bears
N. and S.

33.50 Kanab Creek, 15 lks. wide, 2 ins. deep
in wash, 1 chain wide, 12 ft. deep.
Course S.W.

39.98 Set an iron post, 3 ft. long, 1 in. dia.,
26 ins. in the ground for $\frac{1}{4}$ sec. cor.,
Nhd. on brass cap.
 $\frac{1}{4}$ S 8 on N. half.
S 17 on S. half. dig pits

Subdivision of T. 41 N., R. 2 W.

Chains. 18x18x12 ins. E. and W. of Cor;
3 ft. dist; and raise a mound of
earth 3 1/2 ft. base, 1 1/2 ft. high, N. of Cor.
From this cor. the Fredonia dam and
head of ditch bears S 4° 08' E; 31.74
chains distant.
79.96 The cor. of secs. 7, 8, 17 and 18.
Land, gently rolling, slopes S E. and
S W.
Soil, deep rich sandy loam, 1st rate
Subsoil, gravel.
Undergrowth shad. scrub on mile

Walter A. Stamm
U. S. Transitman

For solar observation see line bet.
secs. 17 and 18.
West, on a random line,
bet. secs. 7 and 18.
40.00 Set temp. 1/4 sec. cor.
79.63 Intersect W. bdy. of the T. at the
Cor. of secs. 7, 12, 13 and 18.
Thence I run
East, on a true line
bet. secs. 7 and 18
Over rolling land, through dense
undergrowth of sage brush.
39.63 Set an iron post, 3 ft. long, 1 in. dia;
26 ins. in the ground for 1/4 sec. cor;
mkd. on brass cap;
1/4 S 7 in N. half;
S 18 in S 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.
69.65 Descend over Sandstone ledges, 150 ft. to
71.90 Gulch, course N E; asc. over sand
stone ledges, bear N E. and S W; 100 ft.
73.90 Spur, projects N E; descend abruptly
over, 100 foot, perpendicular, sand-

Chains. 17.63 stone ledge, bears N E. and S W.
200 feet below spur. Foot of hills,
bear N. and S, descend gradually
2 feet to
79.63 The cor. of secs. 7, 8, 17 and 18.
Land, rolling bench land and
rough mountains.
Soil, rocky, 6 to 20 ins. deep,
West 69. 65 chs. and East. 2.00 chains
2nd rate, mountain land is rocky
soil, 3 and 4th rate.
Undergrowth, sage brush.
Land rough mountainous 8.00 chs.

Andrew Nelson
W. S. Trautman.

For solar observation see line
bet. secs. 8 and 17.
N 0° 03' W. bet. secs. 7 and 8.
Ascend. over rolling land,
through sparse undergrowth of
sage brush and shed scale.
25.00 Ascend abrupt. over series of
sandstone ledges, bears E. and W.
27.08 Top of Sandstone ledge. 30 ft. high,
and bench land, 250 feet above
sec. cor; bears E. and W.
Ascend, rocky, through scattering
cedar and juniper fine timber.
40.00 30 feet below top.
Six iron post. 3 ft. long, 1 in. dia.,
26 ins. in the ground for 1/4 sec. cor;
Nkd. on brass cap.
1/4 S 7 on W. half
S 8 on E. half; from which
a cedar, 8 ins. dia., bears N 5-9° W.,
87 lbs. dist., nkd
1/4 S 7 BT.
No suitable bearing tree available
in sec. 8.

Subdivision T. 41 N., R. 2 W.

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

50.00 Descend, abrupt over small sandstone ledges bearing E. and W., 200 ft to

52.50 Follow, course E; ascend abruptly.

57.00 Perpendicular sandstone ledge, 15 ft. high, bears NE. and SW;
Ascend gradually, 150 feet to

68.00 Top of bench land, bears, NE. and SW.
Descend, over rocky land, facing NE, 60 feet to

80.00 Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground, for cor. of sec. 5, 6, 7 and 8, nkd. on brass cap:
T 41 N S 6 in NW,
R 2 W S 5 in NE,
S 8 in SE, and
S 7 in SW. quadrants;
from which,
a cedar, 10 ins. dia., bears N 30° E.,
69 lbs. dist., nkd
T 41 N R 2 W S 5 1/2 BT
a pinon pine, 9 ins. dia., bears S 50° E.,
8 1/2 lbs. dist., nkd
T 41 N R 2 W S 8 1/2 BT
a cedar, 4 ins. dia., bears S 17° W.,
5 7/2 lbs. dist., nkd,
T 41 N R 2 W S 7 1/2 BT.
a cedar, 8 ins. dia., bears N 65° W.,
20 1/2 lbs. dist., nkd
T 41 N R 2 W S 6 1/2 BT.

Land, rolling mountainous,
Soil, rocky, 3rd rate, 6 to 12 ins. deep.
Subsoil, shale and sandstone.
Timber, Cedar and pinon pine on
42.92 Chairs.
Undergrowth, sage brush and shad scale.
Land, rolling mountainous 80.00 Chairs.

Walter A. Stumm
August 7, 1911. U.S. Transient

- Chains. August 8: at 8^h 06^m. A. M. 1. M. T. D
 Set off 36° 58' 1/2 on the lat. arc,
 16° 22' 1/4 N on the decl. arc and
 determine a mer. with the solar
 at the cor. of secs. 5, 6, 7 and 8,
 Thence I run
 N 89° 57' E. on a random line,
 bet. secs. 5 and 8,
 40.00 Set temp. 1/4 sec. cor.
 50.00 Intersect N. and S. line, at the cor.
 of secs. 4, 5, 8 and 9.
 Thence I run
 S 89° 57' W. on a true line,
 bet. secs. 5 and 8.
 Over gently rolling land, through
 sparse undergrowth of sage brush,
 26.61 Kanab Forest Reserve telephone line,
 bears N 5° W. and S 5° E.
 27.32 Kane County telephone line, bears N 5° W
 and S 5° E.
 28.60 Road, from Fredonia to Kanab, bears
 N and S.
 40.00 Set an iron post, 3 ft. long, 1 in. dia.;
 26 ins. in the ground for 1/4 sec. cor.,
 wk'd. on brass cap.
 1/4 S 5° on N. half.
 1/4 S 5° on S. half dig pits 18 X 18 X 12
 ins., E. and W. of post, 3 ft. dia.; and
 raise a mound of earth, 3 1/2 ft. base,
 1 1/2 ft. high. N. of cor.
 56.00 East bank of Kanab creek wash, 15 ft.
 high, bears N W. and S W.
 59.13 Kanab, creek, 10 lbs. wide, 4 ins.
 deep, clear water, course S W.
 61.75 West bank of wash, 15 ft. high, bears
 N W. and S W. ascend gradually
 72.00 Foot of mountainous land, bears
 N. and S.
 Ascend over sandstone boulders,
 150 ft. to
 75.50 Spur, projects N, descend 40 ft. to

Subdivision of T. 41 N., R. 24 W.

Chains.
79.60 Follow. course $N 10^{\circ} E$; ascend 10 ft to
80.00 The cor. of secs. 5, 6, 7 and 8.
Land, gently rolling and mountainous.
Soil, east 7 2.00 chains, deep, rich,
sandy loam, 1st. rate.
West 8.00 chains, rocky 6 to 12 ins.
deep, 3rd rate.
Subsoils, gravel and sandstone.
Undergrowth, sage brush.
Land, mountainous 8.00 chains.

40.00 West on a random line,
bet. secs. 6 and 7.
79.53 Set temp. $\frac{1}{4}$ sec. cor.
Intersect W. bdy. of the TP. at the cor.
of secs. 1, 6, 7 and 12.
Thence I run
East, on a true line,
bet. secs. 6 and 7.
Over rolling land through dense
undergrowth of sage brush.
Ascend, 25 feet to
39.53 Set an iron post, 3 ft. long, 1 in. dia.
26 ins. in the ground for $\frac{1}{4}$ sec. cor.
mkd. on brass cap.
 $\frac{1}{4}$ S 6 on N. half.
 $\frac{1}{4}$ S 7 on S. half. Dig pits
18x18x12 ins; E. and W. of post, 3 ft. dia.,
and raise a mound of earth, $3\frac{1}{2}$ ft.
base, $1\frac{1}{2}$ ft. high. N. of cor.
Ascend 30 feet to
61.80 Ridge bears thence NE. and South.
Descend 55 ft to
73.00 Enter scattering cedar and juniper pine.
timber bears NE. and SW.
79.53 The cor. of secs. 5, 6, 7 and 8.
Land, rolling, slopes to the NE,
Soil, rocky, 6 to 20 ins. deep, 2nd rate.
Subsoil, sandstone.
Timber, Cedar and juniper pine on 6.53 chs.

Chains. Undergrowth, sage brush on hill.
 August 8: At this sec. cor. I set off
 16^o 19' N. on the decl. arc, and at
 12^h 56^m. P.M. 1. M.T. observe the sun
 on the mer.; the resulting lat. is 36^o 58¹/₂'.

- 70^o 05' W. on a random line,
 bet. secs. 5 and 6.
- 40.00 Set temp. 1/4 sec. cor.
 79.95 Intermex N. bdy of the TP., 7 lbs.
 W. of the cor. of secs. 5, 6, 31 and 32,
 heretofore described.
 Thence I run
 80^o 02' E on a true line
 bet. secs. 5 and 6.
 Over gently rolling land, through
 dense undergrowth of greasewood and
 sage brush.
- 12.00 Wash, 2 chains wide, 40 ft. deep, course
 S W.
- 18.00 Wash, 2, 20 chs wide, 35 feet deep,
 course S W
 Ascend over rolling hills, bear. NE. and
 S W; 25 feet to
- 34.00 Rocky spur, projects N W.
 Point for cor. falls in wash so as.
- 38.95 Set an iron post, 3 ft. long, 1 in. dia.;
 26 ins. in the ground for witness cor.
 to the 1/4 sec. cor.; rubed. on brass cap.
 T 41 N R 2 W S 6 W C 1/4 S 5; dig
 pits 18 X 18 X 12 ins., N. and S. of post,
 3 ft. dia.; and raise a mound of earth,
 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
- 39.60 N. bank of Kanab creek wash,
 40 ft. high, bears E. and W.
- 39.95 The point for 1/4 sec. cor.
- 47.65 Kanab. creek, 20 lbs. wide, 4 ins.
 deep, clear water, course N 80^o E.
- 54.30 South bank of Kanab creek wash,
 40 ft. high, bears E. and W.
- 67.60 Foot of steep ascent, bears N W and S E.

Chains
69.95
79.95

Ascend 50 ft. to
Spur, project NE. descend 35 ft. to
The cor. of secs. 5, 6, 7 and 8.
Land, rolling and rolling mountains.
Soil, stony, 2nd rate.
Subsoil, shale and sandstone.
Undergrowth, sage brush and
grease wood.
Land mountainous 31.60 chains,
Andrew Nelson.
August 8, 1911. U.S. Transientman.

General Description.

This township consists of level, rolling and hilly land with a general slope to the S.W. The valley land along Johnson and Kanab creek is deep, rich, sandy loam covered with a sparse undergrowth of sage brush, artemisia, shrub-cedar and some greasewood. While the high bench lands in the NE. and NW. portions, is rocky, gravelly, rolling land covered with a growth of scrub cedar, juniper pine and undergrowth of sage brush. The soil of this bench land is, gravelly and rocky with shale and sandstone subsoil.

The land along Kanab creek is very fertile and with the necessary water, many more acres could be placed under cultivation.

This township is, watered by Kanab. creek, a small stream in the summer season and Johnson creek, which flows only during the wet season of the year.

Fredonia, which lies in portions of secs. 16, 17, 20 and 21 contains one school-house, one hotel, one store,

a postoffice and about 25 dwelling houses. Its estimated population is 125.

Land is cultivated in secs. 16, 17, 20, 21, 29 and 30.

In secs. 20 and 29 is the reservoir site, in which is stored a portion of the flood waters of Kanab Creek. An earth and stone dam, about 50 chains long, has been raised about 6 ft. high, and when the dam is completed the water will cover about 160 acres.

This is used to store water for irrigation use in the summer season.

There is one settler living in Sec. 30.

Note: At the time of making this survey, the iron posts which were shipped for this assignment being delayed in transit, were not available.

We therefore made the survey, setting temporary cors. at all corner points, and making permanent accessories.

When the posts arrived in August, 1911, we found an error in the shipment; which consisted of

7 - 2 inch posts
106 - 1 inch posts and
60 - 3 inch posts;

In order to avoid unnecessary delay and expense we set 3 inch posts for sec. cors. after the supply of 2 inch posts was used, these posts being set at the true cor. points during August, 20, 21 and 22. By letter of

= Note =

October 2, 1911, from the
U.S. Surveyor General for Arizona
we were authorized to set
3 rock posts instead of 2 rock
posts in this particular instance

Andrew Nelson
Walter A. Stamm,
U.S. Transmitter.

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BOOK 2349

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, Andrew Nelson & Walter A. Stumm U. S. ^{Transitmen} ~~Surveyor~~, during the periods and in the capacities stated opposite our several signatures, in surveying all those parts or portions of

SUBDIVISIONS

OF

T. 41 N., R. 2 W.

of the Gila and Salt River Meridian, in the ^{Dist.} ~~State~~ of Arizona which are represented in the foregoing field notes as having been executed by ~~him~~ ^{them}, and under ~~his~~ ^{their} direction; and that said survey has been, in all respects, to the best of our knowledge and belief, well and faithfully executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN. 1911	ENDED. 1911	
Park Stumm	Aug. 1	August 22	Chairman
Robert W. Riley	July 31	" "	Chairman
Sted Wright	Aug. 1	" "	Chairman
Leo Gulman	July 31	" "	Chairman
Elmer E. Mulyard	Aug. 1	" "	Flag & axman.
Louard Harriman	July 31	" "	Moundman
Edward Nelson	Aug. 20	" "	ax & moundman
Hyrum Church	Aug. 1	" "	Moundman
Buff Griffiths	July 31	" "	Flagman

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

Andrew Nelson
U. S. ~~Surveyor~~
Transitman

FINAL OATH OF UNITED STATES SURVEYOR.

of 220 BOOK 2349

We ~~do~~ ^{transitmen} ~~do~~ Andrew Nelson & Walter A. Stearns, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for Arizona bearing date of the 25th day of August, 1910, 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

Subdivisions

of

T. 41 N. R. 2 W.

of the Gila and

Salt River Meridian, in the State of Arizona, which are represented in the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for Arizona and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Andrew Nelson
Walter A. Stearns

U. S. Surveyor.
Transitmen.

Subscribed by said Andrew Nelson & Walter A. Stearns, and sworn to before me }
this 29th day of February, 1912

Joseph A. Litcher



DISTRICT OF ARIZONA

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Flournoy August Jones, June 12, 1912

The foregoing field notes of the survey of the Subdivision of T. 41 N. R. 2 W., Gila and Salt River Meridian, Arizona

executed by Andrew Nelson and Walter A. Stearns under his special instructions dated August 25, 1910, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank S. Smith
U. S. Surveyor General.

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

U. S. Surveyor General.