

2438

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BOOK 2438

Book "T"

Accepted G.L.O. letter "E" Dec. 15-1913

AUG 2- 1912

FIELD NOTES

OF THE SURVEY OF THE

Subdivision of Township 22 North, Range 9 West.

Of the Gila and Salt River Base and Meridian,

In the State of Arizona.

EXECUTED BY

Jesse B. Wright,

In the capacity of U. S. Surveyor, under instructions dated August 28, 1911,

issued by the United States Surveyor General to govern surveys included in

Group No. 15, which were approved by the Commissioner of the General Land

Office, September 28, 1911, pursuant to authority contained in the Act of

Congress dated June 25, 1910

Survey commenced November 14, 1911

Survey completed November 25, 1911

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EOCK 2438

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2nd Guide Meridian West

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Chains.

Survey commenced Nov. 14, 1911, and executed with a Young & Son's light mountain transit No. 8145, with Smith's patent solar attachment on side. The horizontal limb of the instrument is provided with two double verniers placed opposite to each other and each reading to single minutes of arc, which is also the least count of the verniers of the lat. and decl. arcs of the solar.

The instrument was approved by the Supervisor of Surveys and by the Surveyor-General of Arizona on Sept. 28, 1911. I examine and test all the adjustments of the transit and solar apparatus, and finding same correct; then, in order to test the solar apparatus, by comparing its indications resulting from solar observations made during a.m. & p.m. hours, with a true meridian determined by observations of Polaris, I proceed as follows:

At the cor. of Tps. 22 & 23 N., Rs. 8 & 9 W., I set up my instrument on the meridian as determined by observation of Polaris on night of Nov. 6, as noted and described in field notes of boundaries of this Tp., in Book 2, Lat. $35^{\circ}20'00''$ N, long. $113^{\circ}09'57''$ W., at 4h p.m., l.m.t., I set off $35^{\circ}20'$ N. on the lat. arc, and $18^{\circ}05\frac{1}{2}'$ S. on the decl. arc, and determine a meridian with the solar, and mark a point thereon by a tack in a stake 5 chs. N. of my station, which point falls .40 ins. E. of the point in the true meridian as established by Polaris observation. Nov. 14, 1911.

Nov. 15, 1911.

At 8h a.m., l.m.t., I set off $35^{\circ}20'$ N. on the lat. arc, and $18^{\circ}15\frac{1}{2}'$ S. on the decl. arc, and determine a meridian with the solar, and mark a point thereon by a tack in the stake 5 chs. N. of my station, which point falls .20 ins. W. of the point in the true meridian as determined by Polaris observation.

The solar apparatus, by p.m. & a.m. hours observations, defines positions for meridians about $20''$ E., and $10''$ W., resp. of the mer. established by Polaris observation. Therefore, I conclude that the instrument is in satisfactory adjustment.

I proceed to the cor. of secs. 1, 2, 35 & 36, on the South. bdy. of Tp. 22 N., R. 9 W., as recently established by me and heretofore described, lat. $35^{\circ}14'49''$ N., long. $113^{\circ}11'01''$ W. in Book 2,

At this cor., at 9h a.m., l.m.t., I set off $35^{\circ}15'$ N. on the lat. arc, and $18^{\circ}17\frac{1}{2}'$ S. on the decl. arc, and determine a meridian with the solar.

The magnetic bearing of this meridian at 9h a.m., is N. 16° W.; the angle thus determined gives the magnetic declination as 16° E.

From the cor. above described, I run, as per instructions,

Chains.

- N. 0° 1' W., bet. secs. 35 & 36.
Over gently rolling land, along E. side of small valley,
few scattering cedar, fine gramma grass.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 35 in W., and
S 36 in E. half;
dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and
raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
No bearings available.
- 48.75 Road, brs. NE. & SW., Fort Rock to Seligman.
- 74.00 Leave valley, brs. E. & W., asc. SW. slope of rocky
wooded hill.
- 80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in
the ground for cor. of secs. 25, 26, 35 & 36, marked on
brass cap,
T 22 N R 9 W, in N. half,
S 26 in NW.,
S 25 in NE.,
S 36 in SE., and
S 35 in SW. quadrants; from which,
A pinon tree 10 ins. diam. brs. N. 32° E. 40 lks. dist.,
marked T 22 N R 9 W S 25 B T.
A pinon tree 10 ins. diam. brs. S. 34° E. 97 lks. dist.,
marked T 22 N R 9 W S 36 B T.
A cedar tree 10 ins. diam. brs. S. 58° W. 30 lks. dist.,
marked T 22 N R 9 W S 35 B T.
A cedar tree 10 ins. diam. brs. N. 42° W. 33 lks. dist.,
marked T 22 N R 9 W S 26 B T.
Land, rolling, hilly.
Soil, 3rd rate, gravelly, sandy, no timber.
Undergrowth, few cedars, pinons, good grass.
-
- East, on a random line, bet. secs. 25 & 36.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.02 Intersect E. bdy. of Tp. 5 lks. S. of cor. of
secs. 25, 30, 31 & 36, which is an iron post 3 ins. in diam.
2.1 ft. above ground, with brass cap, marked and witnessed
as described by the Surveyor-General, whence I run,
S 89° 58' W. upon a true line, bet. sec. 25 & 36. in
Over gently undulating, grassy valley.
- 40.01 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the
ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 25 in N., and S. 36 in S. half. No trees available.
raise a mound of stone $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
- 52.00 Old abandoned dry well, brs. S. 10 chs. dist.,
- 66.00 Road, brs. NNE. & SSW., Fort Rock to Seligman, leave
valley, brs. N. & S., asc. ESE. slope of wooded hill.
- 75.00 Top of hill, brs. NNW. & SSE., desc.
- 80.02 To cor. of secs. 25, 26, 35 & 36. as before described
Land, rolling, hilly.
Soil, 2nd & 3rd rate, sandy, gravelly,
No timber.
Undergrowth, scattering cedar, good native grass.

Chains.

- N. $0^{\circ} 1'$ W., bet. secs. 25 & 26.
Over heavily rolling hills, through scattering cedar, pinon, good native grass, ascend.
- 32.00 Top of hill, hrs. NW. & SSE., desc. gradually.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 26 in W., and
S 25 in E. half; from which,
A cedar tree 14 ins. diam. hrs. N. $13\frac{1}{2}^{\circ}$ E. 27 lks. dist., marked $\frac{1}{4}$ S 25 B T.
A cedar tree 8 ins. diam. hrs. N. 38° W. 26 lks. dist., marked $\frac{1}{4}$ S 26 B T.
- 42.00 Leave cedar, hrs. NW. & SE., enter valley.
- 80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for cor. of secs. 23, 24, 25 & 26, marked on brass cap,
T 22 N R 9 W, in N. half,
S 23 in NW.,
S 24 in NE.,
S 25 in SE., and
S 26 in SW. quadrants;
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, rolling.
Soil, 3rd rate, gravelly, sandy, loose, dry.
No timber.
Undergrowth, cedar, pinon, good native grass.
At this cor. at noon, I set off $18^{\circ} 20'$ S. on the decl. arc and observe the sun on the meridian.
The resulting lat. is $35^{\circ} 16\frac{1}{2}'$ N.
-
- N. $89^{\circ} 58'$ E., on a random line, bet. secs. 24 & 25.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.02 Intersect. East bdy. of Tp. 15 lks. N. of cor. of secs. 19, 24, 25 & 30, which is an iron post 3 ins. in diam. 1 ft. above ground, with brass cap, marked and witnessed as described by the Surveyor-General, whence I run,
N. $89^{\circ} 56'$ W., on a true line, bet. secs. 24 & 25.
- 40.01 Over gently undulating valley, asc. slightly.
Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 24 in N., and
S 25 in S. half;
dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
- 80.02 To cor. of secs. 23, 24, 25 & 26. heretofore described
Land, gently undulating, level.
Soil, 2nd rate, stiff, heavy.
Sparse sage brush, cacti, fine gramma grass.

- Chains.
- N. $0^{\circ} 1'$ W., bet. secs. 23 & 24.
Over gently rolling, open, grassy valley.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 23 in W., and S 24 in E. half;
dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 70.00 Asc. SW. slope of low hill, brs. NW & SE.
- 76.00 Top of low hill, brs. NW. & SE., near NW. end, desc.
- 80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for cor. of secs. 13, 14, 23 & 24, marked on brass cap,
T 22 N R 9 W, in N. half,
S 14 in NW.,
S 13 in NE.,
S 24 in SE., and
S 23 in SW. quadrants;
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, 3rd rate, sandy, gravelly, heavy, stiff.
Good gramma grass.
-
- S. $89^{\circ} 56'$ E., on a random line, bet. secs. 13 & 24.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.02 Intersect East bdy. of Tp. 5 lks. S. of cor. of secs. 13, 18, 19 & 24, which is an iron post 3 ins. in diam. 1 ft. above ground, with brass cap, marked and witnessed as described by the Surveyor-General, whence I run,
N. $89^{\circ} 58'$ W., on a true line, bet. secs. 13 & 24.
Over gently rolling grassy valley.
- 40.01 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 13 in N., and S 24 in S. half;
dig pits 18x18x12 ins. E. & W. of cor. 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 Asc. grad. NE. slope.
- 80.02 To cor. of secs. 13, 14, 23 & 24, hereinbefore described.
Land, rolling.
Soil, 3rd rate, sandy, gravelly.
Few scattering cedars, good grass.

Nov. 15, 1911.

Chains.

- Nov. 16, 1911. (hereinbefore described)
 At 8h a.m., l.m.t., at the cor. of secs. 13, 14, 23 & 24,
 I set off $35^{\circ}17\frac{1}{2}'$ N. on the lat. arc, and $18^{\circ}31'$ S. on
 the decl. arc, and determine a meridian with the solar.
 Thence I run,
 N. $0^{\circ}01'$ W., bet. secs. 13 & 14.
 Over rolling land, desc. grad.
 19.65 Dim road, brs. E. & W.
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
 the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 14 in W., and
 S 13 in E. half;
 dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and
 raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 48.00 Enter scattering cedar, brs. NE. & SW., asc. grad.
 80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in
 the ground for cor. of secs. 11, 12, 13 & 14, marked on
 brass cap,
 T 22 N R 9 W, in N. half,
 S 11 in NW.,
 S 12 in NE.,
 S 13 in SE., and
 S 14 in SW. quadrants; from which,
 A cedar tree 18 ins. diam. brs. N. $18\frac{1}{2}^{\circ}$ E. 62 lks. dist.,
 marked T 22 N R 9 W S 12 B T.
 A cedar tree 12 ins. diam. brs. S. $5\frac{1}{2}^{\circ}$ E. 66 lks. dist.,
 marked T 22 N R 9 W S 13 B T.
 A cedar tree 12 ins. diam. brs. S. 73° W. 51 lks. dist.,
 marked T 22 N R 9 W S 14 B T.
 A cedar tree 12 ins. diam. brs. N. 25° W. 161 lks. dist.,
 marked T 22 N R 9 W S 11 B T.
 Land, rolling.
 Soil, 2nd & 3rd rate, sandy, gravelly, loose.
 Scattering cedar, good native grass.
-
- S. $89^{\circ}58'$ E., on a random line, bet. secs. 12 & 13.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.00 Intersect E. bdy. of Tp. $2\frac{1}{2}$ lks. N. of cor. of
 secs. 7, 12, 13 & 18, which is an iron post 3 ins. in
 diam. 1 ft. above ground, with brass cap, marked and
 witnessed as described by the Surveyor-General,
 whence I run,
 N. $89^{\circ}57'$ W., on a true line, bet. secs. 12 & 13.
 Over gently undulating, grassy valley.
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
 the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 12 in N., and
 S 13 in S. half;
 dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and
 raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
 73.00 Enter scattering cedar, brs. N. & S.
 80.00 To cor. of secs. 11, 12, 13 & 14, hereinbefore described.
 Land, rolling.
 Soil, 3rd rate, sandy, heavy some clay.
 Scattering cedar, sage brush? few cacti, good native grass.

Chains

- N. 0° 1' W., bet. secs. 11 & 12.
Over gently rolling land, desc. grad.
- 30.00 Leave cedar, brs. NW. & SE. Enter valley.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 11 in W., and
S 12 in E. half;
dig pits 18x18x12 ins. N. & S. of cor. 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. in diam. 24 ins. in the ground for cor. of secs. 1, 2, 11 & 12, marked on brass cap, T 22 N R 9 W, in N. half,
S 2 in NW.,
S 1 in NE.,
S 12 in SE., and
S 11 in SW. quadrants;
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, 2nd rate, heavy, clayey.
Scattering cedar, sage brush, good gramma grass.
-
- S. 89° 57' E., on a random line, bet. secs. 1 & 12.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.00 Intersect. East bdy. of Tp. 5 lks. S. of cor. of secs. 1, 6, 7 & 12, which is an iron post 3 ins. in diam., 1 ft. above ground, with brass cap, marked and witnessed as described by the Surveyor-General, whence I run,
- N. 89° 59' W., on a true line, bet. secs. 1 & 12.
Asc. gently, in valley.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 1 in N., and
S 12 in S. half;
dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
At this cor., at noon, clouds obscure the sun, impracticable to observe the latitude.
- 80.00 To cor. of secs. 1, 2, 11 & 12, ~~hereinbefore~~ described.
Land, gently rolling. Soil, 2nd rate, heavy, clayey.
Sparse sage brush, cacti, fine gramma grass.
-
- N. 0° 1' W., on a random line, bet. secs. 1 & 2.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 79.96 Intersect N. bdy. of Tp. 2 lks. W. of cor. of ^{in Book 2,} secs. 1, 2, 35 & 36, recently estab. & described by me, whence I run,
South, on a true line, bet. secs. 1 & 2.
Over gently rolling valley.
- 39.96 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 2 in W., and
S 1 in E. half;
dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 79.96 To cor. of secs. 1, 2, 11 & 12, ~~hereinbefore~~ described.
Land, gently rolling.
Soil, 3rd rate, heavy, some gravell and clay.
Sparse sage brush, good gramma grass, few cacti.
Nov. 16, 1911.

Chains

Nov. 17, 1911.
 At 8h a.m., l.m.t., at the cor. of secs. 2, 3, 34 & 35,
 on the S. bdy. of the Tp., recently estab. & described by me. in Book 2
 I set off 35° 15' N. on the lat. arc, and 18° 47' S. on
 the decl. arc, and determine a meridian with the solar.
 Thence I run,
 N. 0° 1' W., bet. secs. 34 & 35.
 Over mts. land, asc. SW. slope, through dense cedar.
 20.00 Top of ridge, brs. SE. & NW., desc. NE. slope.
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
 the ground for 1/4 sec. cor., marked on brass cap,
 1/4 S. 34 in W., and
 S. 35 in E. half, from which,
 A cedar tree 6 ins. diam. brs. S. 58° W. 25 lks. dist.,
 marked 1/4 S. 34 B T
 A cedar tree 6 ins. diam. brs. S. 34° E. 53 lks. dist.,
 marked 1/4 S. 35 B T.
 48.00 Bottom of slope, NW. & SE. asc. grad.
 54.00 Top of hill, brs. NW. & SE. desc.
 80.00 Foot, brs. NW. & SE.
 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in
 the ground for cor. of secs. 26, 27, 34 & 35, marked on
 brass cap,
 T 22 N R 9 W in N. half,
 S 27 in NW.,
 S 26 in NE.,
 S 35 in SE., and
 S 34 in SW. quadrants, from which,
 A cedar tree 6 ins. diam. brs. N. 48° E. 31 lks. dist.,
 marked T 22 N R 9 W S 26 B T.
 A cedar tree 18 ins. diam. brs. S. 01° E. 32 lks. dist.,
 marked T 22 N R 9 W S 35 B T.
 A cedar tree 16 ins. diam. brs. S. 67° W. 40 lks. dist.,
 marked T 22 N R 9 W S 34 B T.
 A cedar tree 18 ins. diam. brs. N. 87° W. 69 lks. dist.,
 marked T 22 N R 9 W S 27 B T .
 Land, rolling, mts.
 Soil, 3rd rate, stony, gravelly.
 Dense cedar, fair grass.

East, on a random line, bet. secs. 26 & 35.
 40.00 Set temp. 1/4 sec. cor.
 80.02 Intersect N. & S. line 2 1/2 lks. N. of cor. of
 secs. 25, 26, 35 & 36, hereinbefore described, whence I run
 N. 89° 59' W., on a true line, bet. secs. 26 & 35.
 Descend through dense cedar, few pinon, barren limestone
 ledges.
 12.00 Foot of hill, brs. NNW. & SSE.
 30.00 Leave cedar, brs. NW. & SE., enter valley.
 40.01 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
 the ground for 1/4 sec. cor., marked on brass cap,
 1/4 S. 26 in N., and
 S. 35 in S. half,
 dig pits 18x18x12 ins. E. & 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.
 60.00 Enter cedar, brs. NNW. & S., asc. grad.
 80.02 To cor. of secs. 26, 27, 34 & 35, hereinbefore described.
 Land, mts., rolling.
 Soil, 3rd rate, stony, gravelly.
 Cedar, pinon. Good grass in valleys.
 At this cor. at noon, . . . , I set off 18° 50 1/2' S. on the
 decl. arc, and observe the sun on the meridian,
 The resulting lat. is 35° 15 1/2' N.

Chains.

- N. $0^{\circ} 1'$ W., bet. secs. 26 & 27.
 Over rolling land, desc. grad., through dense cedar,
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
 the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 27 in W., and
 S 26 in E. half, from which,
 A cedar tree 8 ins. diam. brs. S. $5\frac{1}{2}^{\circ}$ E. 124 lks. dist.,
 marked $\frac{1}{4}$ S 26 B T.
 A cedar tree 13 ins. diam. brs. S. $10\frac{1}{2}^{\circ}$ W. 114 lks. dist.,
 marked $\frac{1}{4}$ S 27 B T.
 69.00 Asc. SW. slope.
 75.00 Top of hill, brs. NNW. & SSE.
 80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in
 the ground for cor. of secs. 22, 23, 26 & 27, marked on
 brass cap,
 T 22 N R 9 W, in N. half,
 S 22 in NW.,
 S 23 in NE.,
 S 26 in SE., and
 S 27 in SW. quadrants, from which,
 A cedar tree 10 ins. diam. brs. N. $50\frac{1}{4}^{\circ}$ E. 92 lks. dist.,
 marked T 22 N R 9 W S 23 B T.
 A cedar tree 12 ins. diam. brs. S. 79° E. 183 lks. dist.,
 marked T 22 N R 9 W S 26 B T.
 A cedar tree 18 ins. diam. brs. S. 2° W. 63 lks. dist.,
 marked T 22 N R 9 W S 27 B T.
 Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 Soil, 3rd rate, gravelly. Land, rolling, hilly.
 Cedar, some pinon, fair grass.

- S. $39^{\circ} 59'$ E., on a random line, bet. secs. 23 & 26.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.04 Intersect N. & S. line at cor. of secs. 23, 24, 25 & 26,
 herebefore described, whence I run
 N. $89^{\circ} 59'$ W., on a true line, bet. secs. 23 & 26.
 Over gently rolling land, asc. grad., in valley.
 40.02 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
 the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 23 in N., and
 S 26 in S. half,
 dig pits 18x18x12 ins. E. & W. of cor. 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 Asc. ENE. slope, through cedar, and pinon.
 72.00 Top of hill, brs. ESE., & WNW., desc.
 80.04 To cor. of secs. 22, 23, 26 & 27. herebefore described
 Land, rolling. Soil, 3rd rate, gravelly.
 Cedar and pinon. Good gramma grass.

- N. $0^{\circ} 1'$ W., bet. secs. 22 & 23.
 Desc. grad. ENE. slope of wooded hill through cedar.
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
 the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 22 in W., and
 S 23 in E. half, from which,
 A cedar tree 6 ins. diam. brs. N. $87\frac{1}{2}^{\circ}$ E. 68 lks. dist.,
 marked $\frac{1}{4}$ S 23 B T.
 A cedar tree 10 ins. diam. brs. N. $64\frac{1}{2}^{\circ}$ W. 64 lks. dist.,
 marked $\frac{1}{4}$ S 22 B T.
 60.00 Foot of E. slope, asc. SSW. slope.
 80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in
 the ground for cor. of secs. 14, 15, 22 & 23, marked on
 brass cap,
 T 22 N R 9 W in N. half,
 S 15 in NW.,
 S 14 in NE.,
 S 23 in SE., and
 S 22 in SW. quadrants, from which,

Chains.

- A cedar tree 24 ins. diam. brs. N.22°E. 205 lks. dist., marked T 22 N R 9 W S 14 B T.
- A cedar tree 18 ins. diam. brs. S.15°E. 147 lks. dist., marked T 22 N R 9 W S 23 B T.
- A cedar tree 8 ins. diam. brs. S.41° W. 182 lks. dist., marked T 22 N R 9 W S 22 B T.
- A cedar tree 20 ins. diam. brs. N.33°W. 35 lks. dist., marked T 22 N R 9 W S.15 B T.

Land, heavily rolling, broken.
 Soil, 3rd rate, gravelly,
 Scattering cedar, pinon, good gramma grass.
 Nov. 17, 1911.

Nov. 13, 1911. hereinbefore described

At 8h a.m., l.m.t., at the cor. of secs. 14, 15, 22 & 23,
 I set off 35° 17 1/2' N. on the lat. arc, and 19° 1' S. on the
 decl. arc, and determine a meridian with the solar,
 thence I run,

- S. 39° 59' E., on a random line, bet. secs. 14 & 23.
- 40.00 Set temp. 1/4 sec. cor.
- 80.06 Intersect N. & S. line at cor. of secs. 13, 14, 23 & 24,
 whence I run,
 N. 89° 59' W., on a true line, bet. secs. 14 & 23.
 Over rolling land, asc. grad.
- 40.03 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
 the ground for 1/4 sec. cor., marked on brass cap,
 1/4 S 14 in N., and
 S 23 in S. half,
 dig pits 10x18x12 ins. E. & 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.
- 60.00 Enter scattering cedar, brs. N. & S., asc. grad.
- 79.00 Top of low ridge, brs. N & S., desc.
- 80.06 To cor. of secs. 14, 15, 22 & 23. hereinbefore described
 Land, rolling, mts.
 Soil, 3rd rate, gravelly, heavy.
 Scattering cedar, few pinon. Good gramma grass.

N. 0° 1' W., bet. secs. 14 & 15.
 Over rolling stony land, through dense cedar, few pinon.

- 22.00 Old road, brs. E. & W.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
 the ground for 1/4 sec. cor., marked on brass cap,
 1/4 S 15 in W., and
 S 14 in E. half, from which,
 A cedar tree 8 ins. diam. brs. N.14° W. 66 lks. dist.,
 marked 1/4 S 15 B T.
 A cedar tree 14 ins. diam. brs. S.43 1/2° E., 125 lks. dist.,
 marked 1/4 S 14 B T.
- 80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in
 the ground for cor. of secs. 10, 11, 14 & 15, marked on
 brass cap,
 T.22 N R 9 W , in N. half,
 S 10 in NW.,
 S.11 in NE.,
 S 14 in SE., and
 S 15 in SW. quadrants, from which,
 A cedar tree 10 ins. diam. brs. N.54 1/2° E. 110 lks. dist.,
 marked T 22 N R 9 W S 14 B T.
 No other bearings available.
 Raise a mound of stone 3 ft. base, 2 ft. high W. of cor.
 Land, heavily rolling.
 Soil, 3rd rate, gravelly, stony.
 Cedar, some pinon, grass fair.

Chains.

- S. $89^{\circ}59'$ E., on a random line, bet. secs. 11 & 14.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.04 Intersect N. & S. line 3 lks. S. of cor. of
secs. 11, 12, 13 & 14, hereinbefore described, whence I run
West, on a true line, bet. secs. 11 & 14.
Over rolling, stony ground, through clumps of dense cedar.
Ascend gradually.
- 40.02 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 11 in N., and
S 14 in S. half, from which,
A cedar tree 8 ins. diam. brs. N. $76\frac{1}{2}^{\circ}$ E. 158 lks. dist.,
marked $\frac{1}{4}$ S. 11 B T.
A cedar tree 8 ins. diam. brs. S. 46° W. 181 lks. dist.,
marked $\frac{1}{4}$ S 14 B T.
- 60.00 Top of flat ridge, brs. N. & S., desc.
- 70.00 Foot, brs. N. & S., desc. gently.
- 80.04 To cor. of secs. 10, 11, 14 & 15, hereinbefore described.
Land, heavily rolling.
Soil, 3rd rate, gravelly, heavy.
Scattering cedar, sage brush, few cacti. Good grass.
At this cor. at, noon, I set off $19^{\circ}5'$ S. on the
decl. arc, and observe the sun on the meridian.
The resulting lat. is $35^{\circ}18'$ N.

- N. $0^{\circ}1'$ W., bet. secs. 10 & 11.
Over rolling, stony E. slope of hill, through dense
cedar.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam, 26 ins. in
the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 10 in W., and
S 11 in E. half, from which,
A cedar tree 8 ins. diam. brs. S. $63\frac{1}{4}^{\circ}$ E. 150 lks. dist.,
marked $\frac{1}{4}$ S 11 B T.
A cedar tree 18 ins. diam. brs. S. $10\frac{1}{4}^{\circ}$ W. 171 lks. dist.,
marked $\frac{1}{4}$ S 10 B T.
- 70.00 Desc. gentle NE. slope.
- 80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in
the ground for cor. of secs. 2, 3, 10 & 11, marked on
brass cap,
T 22 N R 9 W $\frac{1}{2}$ in N. half,
S 3 in NW,
S 2 in NE.,
S 11 in SE., and
S 10 in SW. quadrants, from which,
A cedar tree 12 ins. diam. brs. N. $80\frac{1}{2}^{\circ}$ E. 50 lks. dist.,
marked T 22 N R 9 W S 2 B T.
A cedar tree 14 ins. diam. brs. S. 65° E. 71 lks. dist.,
marked T 22 N R 9 W S 11 B T.
A cedar tree 12 ins. diam. brs. S. $29\frac{1}{2}^{\circ}$ W. 76 lks. dist.,
marked T 22 N R 9 W S 10 B T.
A cedar tree 16 ins. diam. brs. N. $40\frac{1}{2}^{\circ}$ W. 80 lks. dist.,
marked T 22 N R 9 W S 3 B T.
- Land, heavily rolling, hilly.
Soil, 3rd rate, gravelly, stony.
Cedar, few pinon, sage brush, good native grass.

Subdivision of T. 22 N., R. 9 W.

11

Chains.

- East, on a random line, bet. secs. 2 & 11.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.02 Intersect N. & S. line 3 lks. N. of cor. of
secs. 1, 2, 11 & 12, hereinbefore described, whence I run
N. $89^{\circ}59'$ W., on a true line, bet. secs. 2 & 11.
Over gently rolling valley.
- 40.01 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 2 in N., and
S 11 in S. half,
dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and
raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
- 45.00 Enter scattering cedar, brs. NW. & SE. ascend gradually.
- 80.02 To cor. of secs. 2, 3, 10 & 11, hereinbefore described.
Land, rolling.
Soil, 3rd rate, loose, gravelly, sandy.
Cedar, few pinon, cacti. Good gramma grass.
-
- N. $0^{\circ}1'$ W., on a random line, bet. secs. 2 & 3.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.00 Intersect N. bdy. of Tp. 2 $\frac{1}{2}$ lks. E. of cor. of ^{in Book 2,}
secs. 2, 3, 34 & 35, recently estab. & described by me, whence I run,
S. $0^{\circ}02'$ E., on a true line, bet. secs. 2 & 3.
Over nearly level valley.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 3 in W., and
S 2 in E. half,
dig pits 18x18x12 ins. N. & S. of cor. 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 To cor. of secs. 2, 3, 10 & 11, hereinbefore described.
Land, level.
Soil, 2nd rate, loose, moist, some clay underlying.
Sparse sage brush, fine gramma grass.
Nov. 18, 1911.

Chains.

Nov. 20, 1911.

At 8h a.m., l.m.t., at the cor. of secs. 3, 4, 33 & 34, on the S. bdy. of the Tp., recently estab. & described by me in Book 2 I set off $35^{\circ}15'$ N. on the lat. arc, and $19^{\circ}29'$ S. on the decl. arc, and determine a meridian with the solar.

Thence I run,

N. $0^{\circ}2'$ W., bet. secs. 33 & 34.

Asc. gently, along E. side of narrow valley.

- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 33 in W., and
 S 34 in E. half,

dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.

- 56.83 Road, brs. NNW. & SSE.

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

T 22 N R 9 W, in N. half,

S 28 in NW.,

S 27 in NE.,

S 34 in SE., and

S 33 in SW. quadrants,

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

Land, gently rolling.

Soil, 3rd rate, gravelly, heavy.

Sparse sage brush, cacti. Good gramma grass.

East, on a random line, bet. secs. 27 & 34.

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

- 79.96 Intersect N. & S. line $2\frac{1}{2}$ lks. S. of cor. of secs. 26, 27, 34 & 35, heretofore described, whence I run S. $89^{\circ}59'$ W., on a true line, bet. secs. 27 & 34.

Over mountainous land, ascend through dense cedar.

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

$\frac{1}{4}$ S 27 in N., and

S 34 in S. half, from which,

A cedar tree 20 ins. in diam. brs. N. 51° E. 132 lks. dist., marked $\frac{1}{4}$ S 27 B T.

A cedar tree 20 ins. diam. brs. S. 85° W. 110 lks. dist., marked $\frac{1}{4}$ S 34 B T.

- 47.00 Top of limestone ridge, brs. N. & S., desc. precipitously.

- 58.00 Foot of steep slope, brs. N. & S., desc. gradually.

- 79.96 To cor. of secs. 27, 28, 33 & 34, heretofore described.

Land, mts.

Soil, 3rd rate, stony.

Cedar, pinon, scrub oak, cacti. fair grass, in places.

Chains.

N. $0^{\circ} 2'$ W., bet. secs. 27 & 28,
 Over rolling land, along E. side of valley, asc. grad.
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
 the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 28 in W., and
 S 27 in E. half;,
 dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and
 raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 70.00 Enter scattering cedar, brs. NW. & SE., top of rise,
 thence along W. slope.
 80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in
 the ground for cor. of secs. 21, 22, 27 & 28, marked on
 brass cap,
 T 22 N, R 9 W, in N. half,
 S 21 in NW.,
 S 22 in NE.,
 S 27 in SE.; and
 S 28 in SW. quadrants;
 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, mts.
 Soil, 3rd rate, gravelly,
 No timber.
 Scattering cedar, few cacti, good grass.
 At this cor., at noon, clouds obscure the sun.
 Impracticable to observe the latitude.

N. $89^{\circ} 59'$ E., on a random line, bet. secs. 22 & 27.
 40.00 Set temp: $\frac{1}{4}$ sec. cor.
 79.92 Intersect N. & S. line at cor. of secs. 22, 23, 26 & 27,
 hereinbefore described, whence I run
 S. $89^{\circ} 59'$ W., on a true line, bet. secs. 22 & 27.
 Over mts. land, ascend, through pinon and cedar.
 4.00 Top of hill, brs. N. & S., desc.
 33.00 Bottom of hill, brs. NW. & SE., asc. grad.
 39.96 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
 the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 22 in N., and
 S 27 in S. half; from which,
 A cedar tree 10 ins. diam. brs. N. $46\frac{1}{4}^{\circ}$ E. 83 lks. dist.,
 marked $\frac{1}{4}$ S 22 B T.
 A cedar tree 10 ins. diam. brs. S. $2^{\circ} 10'$ W. 86 lks. dist.,
 marked $\frac{1}{4}$ S 27 B T.
 42.00 Top of ridge, brs. N. & S., desc. W. slope.
 60.00 Enter valley, brs. NNW. & SSE., desc. grad.
 79.92 To cor. of secs. 21, 22, 27 & 28, hereinbefore described.
 Land, mts., rolling.
 Soil, 3rd rate, stony, gravelly.
 Cedar, pinon, good grass in valley.

Chains.

- N. $0^{\circ} 2'$ W., bet. secs. 21 & 22.
 Along gentle W. slope, through scattering cedar.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 21 in W., and
 S 22 in E. half;
 dig pits 18x18x12 ins. N. & S. of cor. 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. in diam. 24 ins. in the ground for cor. of secs. 15, 16, 21 & 22, marked on brass cap,
 T 22 N R 9 W, in N. half;
 S 16 in NW.,
 S 15 in NE.,
 S 22 in SE.; and
 S 21 in SW. quadrants;
 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.,
 from which,
 A cedar tree 10 ins. diam. brs. N. $86\frac{1}{2}^{\circ}$ W. 72 lks. dist.,
 marked T 22 N R 9 W S 16 B T.
 No other bearings available.
 Land, rolling.
 Soil, 3rd rate, gravelly.
 Scattering cedar, cacti. Good native grass.

- N. $89^{\circ} 59'$ E., on a random line, bet. secs. 15 & 22.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 79.88 Intersect N. & S. line 5 lks. N. of cor. of secs. 14, 15, 22 & 23, ~~hereinbefore described~~, whence I run
 N. $89^{\circ} 59'$ W., on a true line, bet. secs. 15 & 22.
 Over mts. land, desc. through scattering cedar.
- 10.00 Draw, 250 lks. wide, ^{course SSE.} asc. grad.
- 15.00 Ascend steep through dense cedar.
- 29.00 Top of dividing ridge, brs. NNW. & SSE., 500 ft. above valley, desc. SW. slope.
- 39.94 Set an iron post 3 ft. long, 1 in. in diam. 10 in. in ground, to bed-rock, in mound of stone for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 15 in N., and
 S 22 in S. half; from which,
 A cedar tree 14 ins. diam. brs. N. 46° E. 12 lks. dist.,
 marked $\frac{1}{4}$ S 15 B T.
 A cedar tree 14 ins. diam. brs. S. 77° E. 103 lks. dist.,
 marked $\frac{1}{4}$ S 22 B T.
- 44.00 Draw, 3 chs. wide, course NW., asc. grad.
- 62.00 Top of spur, brs. NW. & SE., desc.
- 70.00 Leave cedar, brs. N. & S., desc. grad.
- 79.88 To cor. of secs. 15, 16, 21 & 22, hereinbefore described.
 Land, rolling, mts.
 Soil, 3rd rate, gravelly, stony.
 Cedar, pinon, few cacti, scrub oak. Fair grass.
 Nov. 20, 1911.

Chains.

Nov. 21, 1911.

(hereinafter described)

At 8h a.m., l.m.t., at the cor. of secs. 15, 16, 21 & 22,
I set off $19^{\circ}43'$ S. on the decl. arc, and $35^{\circ}17\frac{1}{2}'$ N. on
the lat. arc, and determine a meridian with the solar,
thence I run,

N. $0^{\circ}2'$ W., bet. secs. 15 & 16.

Along gentle W. slope, through scattering cedar.

32.23 Road, brs. E. & W. leave cedar, brs. W. & E.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 16 in W., and
S 15 in E. half;

dig pits $18 \times 18 \times 12$ ins. N. & S. of cor. 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. in diam. 24 ins. in
the ground for cor. of secs. 9, 10, 15 & 16, marked on
brass cap,

T 22 N R 9 W in N. half,

S 9 in NW.,

S 10 in NE.,

S 15 in SE., and

S 16 in SW. quadrants;

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.

Soil, 3rd rate, gravelly,

Few cedars, good grass.

S. $89^{\circ}59'$ E., on a random line, bet. secs. 10 & 15.40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.92 Intersect N. & S. line 7 lks. S. of cor. of
secs. 10, 11, 14 & 15, hereinafter described, whence I run

S. $89^{\circ}58'$ W., on a true line, bet. secs. 10 & 15.

Over mts. land, asc. grad., through scattering cedar.

24.00 Top of ridge, brs. N. & S., desc. steep through dense cedar.

32.30 Gulch, 20 lks. wide, course SSW. asc. scattering cedar.

39.96 Set an iron post 1 in. in diam., 3 ft. long, 26 ins. in
the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 10 in N., and

S 15 in S. half, from which,

A cedar tree 8 ins. diam. brs. S. $10\frac{1}{2}^{\circ}$ W. 74 lks. dist.,
marked $\frac{1}{4}$ S 15 B T.

A cedar tree 20 ins. diam. brs. N. 48° W. 89 lks. dist.,
marked $\frac{1}{4}$ S 10 B T.

41.00 Top of hill brs. N. 5 chs. dist., point on S. slope, desc.

79.96 To cor. of secs. 9, 10, 15 & 16, hereinafter described.

Land, mts., broken.

Soil, 3rd rate, gravelly, stony.

Cedar, some pinon. Good grass.

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

Over rolling land, along gentle W. slope, few cedars.

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

 $\frac{1}{4}$ S 9 in W., and

S 10 in E. half, from which,

A cedar tree 20 ins. diam. brs. S. $82\frac{1}{2}^{\circ}$ E. 261 lks. dist.,
marked $\frac{1}{4}$ S 10 B T.

A cedar tree 20 ins. diam. brs. S. 38° W. 116 lks. dist.,
marked $\frac{1}{4}$ S 9 B T.

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

Chains.

- T 22 N, R 9 W, in N. half,
 S 4 in NW.,
 S 3 in NE.,
 S 10 in SE., and
 S 9 in SW. quadrants;
 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, 3rd rate, gravelly, loose.
 Scattering cedar, in places. Good native grass.
 At this cor., at noon, I set off 19¼7' S., on the
 decl. arc, and observe the sun on the meridian.
 The resulting lat. is 35°19' N.
-
- N. 89°58' E., on a random line, bet. secs. 3 & 10.
 40.00 Set temp. ¼ sec. cor.
 79.96 Intersect N. & S. line 5 lks. N. of cor. of
 secs. 2,3,10 & 11, hereinbefore described, whence I run
 West, on a true line, bet. secs. 3 & 10.
 Over mts. land, asc. through dense cedar.
 34.00 Top of low hill, brs. NNW. & SSE., desc.
 38.00 Foot, brs. NNW. & SSE., thence over rolling land.
 39.98 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
 the ground for ¼ sec. cor., marked on brass cap,
 ¼ S 3 in N., and
 S 10 in S. half, from which,
 A cedar, tree 14 ins. diam. brs. N.29¼°W. 189 lks. dist.,
 marked ¼ S 3 B T.
 A cedar tree 20 ins. diam. brs. S.22°W. 275 lks. dist.,
 marked ¼ S 10 B.T.
- 65.00 Leave cedar, brs. NW. & SE.
 79.96 To cor. of secs. 3,4,9 & 10, hereinbefore described.
 Land, rolling.
 Soil, 3rd rate, gravelly, calcareous, stony.
 Cedar, some pinon, fair grass.
-
- N. 0° 2' W., on a random line, bet. secs. 3 & 4.
 40.00 Set temp. ¼ sec. cor.
 80.04 Intersect N. bdy. of Tp. 7 lks. E. of cor. of ^{in Book 2,}
 secs. 3,4,33 & 34, recently established & described by me, whence I run,
 S. 0° 5' E., on a true line, bet. secs. 3 & 4.
 Over mts. land, desc. through dense cedar.
 25.00 Foot of main slope, desc. grad., through scattering cedar.
 40.04 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
 the ground for ¼ sec. cor., marked on brass cap,
 ¼ S 4 in W., and
 S 3 in E. half,
 dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and
 raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor.
 80.04 To cor. of secs. 3,4,9 & 10, hereinbefore described.
 Land, mts., rolling.
 Soil, 3rd rate, gravelly, stony.
 Cedar, pinon, fair grass in places.

Nov. 21, 1911.

Chains.

Nov. 22, 1911.
 At 9h a.m., l.m.t., at the cor. of secs. 4, 5, 32 & 33, on the S. bdy. of the Tp., recently established & described by me in Book 2, I set off 19° 59' S. on the decl. arc, and 35° 15' N. on the lat. arc, and determine a meridian with the solar. Thence I run,
 N. 0° 3' W., bet. secs. 32 & 33.
 Over rolling land, along gentle E. slope, through scattering cedar.

17.00 Road, brs. NE. & SW.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for 1/4 sec. cor., marked on brass cap, 1/4 S 32 in W., and S 33 in E. half; from which,
 A cedar tree 18 ins. diam., brs. S. 62° E. 44 lks. dist., marked 1/4 S 33 B T.
 A cedar tree 14 ins. diam. brs. S. 78° W. 50 lks. dist., marked 1/4 S 32 B T.

80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for cor. of secs. 28, 29, 32 & 33, marked on brass cap,
 T 22 N R 9 W, in N. half,
 S 29 in NW.,
 S 28 in NE.,
 S 33 in SE., and
 S 32 in SW. quadrants, from which,
 A cedar tree 12 ins. diam. brs. N. 89° E. 257 lks. dist., marked T 22 N R 9 W S 28 B T.
 A cedar tree 18 ins. diam. brs. S. 141° W. 183 lks. dist., marked T 22 N R 9 W S 32 B T.
 A cedar tree 20 ins. diam. brs. N. 39 1/4° W. 261 lks. dist., marked T 22 N R 9 W S 29 B T.
 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, 2nd & 3rd rate, sandy, gravelly, loose.
 Scattering cedar, few pinon, fair grass.

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

40.00 Set temp. 1/4 sec. cor.

80.00 Intersect N. & S. line 5 lks. N. of cor. of secs. 27, 28, 33 & 34, hereinbefore described, whence I run N. 89° 58' W., on a true line, bet. secs. 28 & 33. Across smooth open valley, fine gramma grass.

8.30 Road, brs. N. & S.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for 1/4 sec. cor., marked on brass cap, 1/4 S. 28 in N., and S 33 in S. half,
 dig pits 18x18x12 ins. E. & 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.

59.00 Road, brs. NNW. & SSE.

77.80 Dim road, brs. NNW. & SSE.

80.00 To cor. of secs. 28, 29, 32 & 33, hereinbefore described.
 Land, rolling.
 Soil, 3rd & 2nd rate, loose, sandy, gravelly.
 Fine gramma grass.
 At this cor., at noon, I set off 20° 0 1/2' S. on the decl. arc, and observe the sun on the meridian. The resulting lat. is 35° 15 1/2' N.

Chains.

- N. $0^{\circ} 3'$ W., bet. secs. 28 & 29.
Over gently rolling land, along W. side of valley.
Through scattering cedar.
- 17.00 Dam road, brs. NNW. & SSE.
20.00 Leave cedar, brs. NW. & SE.
40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 29 in W., and
S 28 in E. half,
dig pits 18x18x12 ins. N. & S. of cor. 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. in diam. 24 ins. in
the ground for cor. of secs. 20, 21, 28 & 29, marked on
brass cap,
T 22 N R 9 W, in N. half,
S 20 in NW.,
S 21 in NE.,
S 28 in SE., and
S 29 in SW. quadrants;
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, 2nd rate, sandy, gravelly, loose.
Few cedars, fine grass.

- S. $89^{\circ} 58'$ E., on a random line, bet. secs. 21 & 28.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
80.04 Intersect N. & S. line 5 lks. S. of cor. of
secs. 21, 22, 27 & 28, hereinbefore described, whence I run
West, on a true line, bet. secs. 21 & 28.
Across gently rolling valley, desc. grad.
- 28.00 Road, brs. NNW. & SSE.
40.02 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 21 in N., and
S 28 in S. half,
dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and
raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
- 57.38 Road, brs. N. & S.
Small dam and reservoir in middle of valley, brs. North,
10 chs. dist. asc. grad.
- 80.04 To cor. of secs. 20, 21, 28 & 29, hereinbefore described.
Land, rolling.
Soil, 2nd rate, loose, sandy loam.
Fine grass.

Nov. 22, 1911.

Chains.

Nov. 23, 1911.

hereinbefore described

At 8h a.m., l.m.t., at the cor. of secs. 20, 21, 23 & 29,

I set off 20° 9' S. on the decl. arc, and 35° 16½' N. on the lat. arc, and determine a meridian with the solar.

Thence I run,

N. 0° 3' W., bet. secs. 20 & 21.

Over gently rolling land.

- 5.60 Wash, 30 lks. wide, course ESE., in draw 5 chs. wide, leads to reservoir about 30 chs. to E.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for ¼ sec. cor., marked on brass cap, ¼ S 20 in W., and ¼ S 21 in E. half, dig pits 18x18x12 ins. N. & S. of cor. 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. in diam. 24 ins. in the ground for cor. of secs. 16, 17, 20 & 21, marked on brass cap, T 22 N R 9 W, in N. half, S 17 in NW., S 16 in NE., S 21 in SE., and S 20 in SW. quadrants ; 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, 2nd & 3rd rate, loose, sandy, gravelly. Few scattering cedar. Fine native grass.

East, on a random line, bet. secs. 16 & 21.

- 40.00 Set temp. ¼ sec. cor.
- 80.00 Intersect N. & S. line at cor. of secs. 15, 16, 21 & 22, hereinbefore described, whence I run West, on a true line, bet. secs. 16 & 21. Over gently rolling valley.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for ¼ sec. cor., marked on brass cap, ¼ S 16 in N., and ¼ S 21 in S. half, dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor.
- 65.23 Road, brs. NNW. & SSE.
- 80.00 To cor. of secs. 16, 17, 20 & 21 hereinbefore described Land, gently rolling. Soil, 2nd & 3rd rate, sandy, gravelly, loose, moist. Good gramma grass.

N. 0° 3' W., bet. secs. 16 & 17.

Over level valley.

- 6.00 Road, brs. ESE. & WNW.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for ¼ sec. cor., marked on brass cap, ¼ S 17 in W., and ¼ S 16 in E. half, dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor.
- 43.00 Road, brs. SSE. & NNW.
- 44.60 Road, brs. NW. & SE., Nelson to Seligman.
- 45.80 Road, brs. NNW. & SSE.
- 80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for cor. of secs. 8, 9, 16 & 17, marked on brass cap, T 22 N R 9 W, in N. half, S 8 in NW., S 9 in NE., S 16 in SE., and S 17 in SW. quadrants; dig pits 18x18x12 ins. in each sec. 5½ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high W. of cor. Land, level, gently rolling. Soil, 2nd rate, sandy, loose. Fine grass.

Chains.

- East, on a random line, bet. secs. 9 & 16.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 79.90 Intersect N. & S. line 7 lks. S. of cor. of secs. 9, 10, 15 & 16, hereinbefore described, whence I run S. $89^{\circ}57'$ W., on a true line, bet. secs. 9 & 16. Over gently rolling valley, desc. gently.
- 39.95 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 9 in N., and S 16 in S. half; dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
- 79.90 To cor. of secs. 8, 9, 16 & 17, hereinbefore described. Land, gently rolling. Soil, 3rd rate, gravelly, calcareous. No timber or undergrowth. Good gramma grass. At this cor., at noon, I set off $20^{\circ}13\frac{1}{2}'$ S. on the decl. arc, and observe the sun on the meridian. The resulting lat. is $35^{\circ}18'$ N.
-
- N. $0^{\circ}3'$ W., bet. secs. 8 & 9.
- 40.00 Over gently undulating valley, asc. slightly, Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 8 in W., and S 9 in E. half; dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 65.00 Asc. SW. slope, through scattering cedar, brs. NW. & SE.
- 80.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 4, 5, 8 & 9, marked on brass cap,
T 22 N R 9 W, in N. half,
S 5 in NW.,
S 4 in NE.,
S 9 in SE., and
S 8 in SW. quadrants;
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor., from which,
A cedar tree 20 ins. diam. brs. N. 71° E. 89 lks. dist., marked T 22 N R 9 W S 4 B T.
A cedar tree 14 ins. diam. brs. S. 47° W. 57 lks. dist., marked T 22 N R 9 W S 8 B T.
A cedar tree 10 ins. diam. brs. N. 81° W. 173 lks. dist., marked T 22 N R 9 W S 5 B T.
No other bearings available.
Land, rolling.
Soil, 3rd rate, sandy, calcareous, gravelly, stony.
Good grass in valley.
-
- N. $89^{\circ}57'$ E., on a random line, bet. secs. 4 & 9.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.00 Intersect N. & S. line 7 lks. N. of cor. of secs. 3, 4, 9 & 10, hereinbefore described, whence I run West, on a true line, bet. secs. 4 & 9. Over rolling land, asc. grad.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 4 in N., and S 9 in S. half, from which,
A cedar tree 12 ins. diam. brs. S. $81\frac{1}{2}^{\circ}$ E. 119 lks. dist., marked $\frac{1}{4}$ S 9 B T.
A cedar tree 18 ins. diam. brs. N. 79° W. 153 lks. dist., Marked $\frac{1}{4}$ S 4 B T.
- 65.00 Spur, brs. S. & N., desc.
- 80.00 To cor. of secs. 4, 5, 8 & 9, hereinbefore described. Land, rolling. soil, 3rd rate, gravelly. Fair grass.

Chains.

- N. $0^{\circ} 5'$ W., on a random line, bet. secs. 4 & 5.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.02 Intersect N. bdy. of Tp. 5 lks. E. of cor. of
secs. 4, 5, 32 & 33, recently established & described by me ^{in Book 2,} whence I run,
S. $0^{\circ} 7'$ E., on a true line, bet. secs. 4 & 5.
Over mts. land, along E. slope, through dense cedar.
- 25.00 Desc. SE. slope.
- 40.02 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 5 in W., and
S 4 in E. half, from which,
A cedar tree 14 ins. diam. brs. N. 31° E. 66 lks. dist.,
marked $\frac{1}{4}$ S 4 B T.
A cedar tree 14 ins. diam. brs. N. 47° W. 13 lks. dist.,
marked $\frac{1}{4}$ S 5 B T.
- 46.00 Asc.
- 52.00 Top of NW. end of hill, brs. NW. & SE., desc. grad.
- 80.02 To cor. of secs. 4, 5, 8 & 9. hereinbefore described
Land, mts., broken.
Soil, 3rd rate, stony, gravelly.
Cedar, pinon, few cacti, sparse grass.

Nov. 23, 1911.

Nov. 24, 1911.

- At 8h a.m., l.m.t., at the cor. of secs. 5, 6, 31 & 32, on the
S. bdy. of the Tp., recently established & described by me in Book 2
I set off $20^{\circ} 22'$ S. on the decl. arc, and $35^{\circ} 15'$ N. on
the lat. arc, and determine a meridian with the solar,
Thence I run,
N. $0^{\circ} 3'$ W., bet. secs. 31 & 32.
Over mts. land, asc. grad.
- 24.00 Top of rise, slopes E.
- 30.00 Desc. through scattering cedar.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 31 in W., and
S 32 in E. half, from which,
A cedar tree, 24 ins. diam. brs. N. 1° W. 232 lks. dist.,
marked $\frac{1}{4}$ S 31 B T.
A cedar tree 16 ins. diam. brs. S. 81° E. 354 lks. dist.,
marked $\frac{1}{4}$ S 32 B T.
- 41.00 Wash, 10 lks. wide, course SE., asc. grad.
- 71.00 Spur, brs. E. & W., desc.
- 77.15 Gulch, 30 lks. wide, course SE., asc.
- 80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in
the ground for cor. of secs. 29, 30, 31 & 32, marked on
brass cap,
T 22 N R 9 W, in N. half,
S 30 in NW.,
S 29 in NE.,
S 32 in SE., and
S 31 in SW. quadrants, from which,
A cedar tree 20 ins. diam. brs. N. 28° E. 130 lks. dist.,
marked T 22 N R 9 W S 29 B T.
A pinon tree 10 ins. diam. brs. S. 62° E. 170 lks. dist.,
marked T 22 N R 9 W S 32 B T.
A cedar tree 20 ins. diam. brs. S. $61\frac{1}{2}^{\circ}$ W. 188 lks. dist.,
marked T 22 N R 9 W S 31 B T.
A cedar tree 30 ins. diam. brs. N. 4° W. 45 lks. dist.,
marked T 22 N R 9 W S 30 B T.
- Land, rolling, mts.
Soil, 3rd rate, gravelly, stony, sandy.
Scattering cedar, few pinon, cacti, scrub oak.
Fair grass in places.

Chains.	East, on a random line, bet. secs. 29 & 32.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.06	Intersect N. & S. line at cor. of secs. 28, 29, 32 & 33, hereinbefore described , whence I run
	West, on a true line, bet. secs. 29 & 32.
	Asc. grad., through dense cedar.
30.00	Foot of hill, brs. NW. & SE.
	Ascend steep, through dense scrub oak.
40.03	Top of spur, brs. NE. & SW. desc.
	Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
	$\frac{1}{4}$ S 29 in N., and
	S 32 in S. half,
	raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
50.00	Foot, and along N. slope, asc.
65.00	Top of spur, brs. N. & S., desc. SW. slope.
80.06	To cor. of secs. 29, 30, 31 & 32, hereinbefore described .
	Land, mts.
	Soil, 3rd rate, stony, gravelly.
	Cedar, scrub oak, some pinon.
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	West, on a random line, bet. secs. 30 & 31.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.42	Intersect W. bdy. of Tp. 5 lks. N. of cor. of secs. 25, 30, 31 & 36, recently established & described by me ^{in Book 2,} whence I run, N. $89^{\circ}58'$ E., on a true line, bet. secs. 30 & 31.
	Over mts land, asc. grad. SW. slope, through dense cedar.
39.42	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
	$\frac{1}{4}$ S 30 in N., and
	S 31 in S. half, from which,
	A cedar tree 20 ins. diam. brs. S. 23° E. 70 lks. dist., marked $\frac{1}{4}$ S 31 B T.
	A cedar tree 30 ins. diam. brs. N. 56° W. 50 lks. dist., marked $\frac{1}{4}$ S 30 B T.
46.00	Top, of ridge, brs. NNE. & SSW., desc.
57.00	Head of gulch, course ESE.
79.42	To cor. of secs. 29, 30, 31 & 32, hereinbefore described .
	Land, mts., broken.
	Soil, 3rd rate, stony, gravelly.
	Dense cedar, some pinon, sparse grass.
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	N. $0^{\circ}3'$ W., bet. secs. 29 & 30.
	Over mts. land, asc. through dense cedar.
4.00	Top of divide, brs. E. & W., desc.
16.00	Gulch, course NW., asc.
36.00	Spur, brs. NW. & SE., desc.
40.00	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
	$\frac{1}{4}$ S 30 in W., and
	S 29 in E. half, from which,
	A cedar tree 10 ins. diam. brs. S. 52° E. 56 lks. dist., marked $\frac{1}{4}$ S 29 B T.
	A pinon tree 20 ins. diam. brs. S. 53° W. 23 lks. dist., marked $\frac{1}{4}$ S 30 B T.
60.00	Foot of main slope, brs. E. & W., desc. grad.
80.00	Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for cor. of secs. 19, 20, 29 & 30, marked on brass cap,
	T 22 N R 9 W, in N. half,
	S 19 in NW.,
	S 20 in NE.,
	S 29 in SE., and
	S 30 in SW. quadrants, from which,

Chains.

- A cedar tree 18 ins. diam. brs. N. 25° E. 49 lks. dist.,
marked T 22 N R 9 W S 20 B T.
A cedar tree 20 ins. diam. brs. S. 45° E. 136 lks. dist.,
marked T 22 N R 9 W S 29 B T.
A cedar tree 18 ins. diam. brs. S. 68° W. 53 lks. dist.,
marked T 22 N R 9 W S 30 B T.
A cedar tree 24 ins. diam. brs. N. 53½° W. 81 lks. dist.,
marked T 22 N R 9 W S 19 B T.

Land, mts., broken.

Soil, 3rd rate, gravelly, stony,

Dense cedar, some pinon. Fair grass in places.

At this cor., at noon, clouds obscure the sun.

Impracticable to observe the latitude.

- East, on a random line, bet. secs. 20 & 29.
40.00 Set temp. ¼ sec. cor.
80.02 Intersect N. & S. line at cor. of secs. 20, 21, 28 & 29,
~~hereinbefore described~~, whence I run.
West, on a true line, bet. secs. 20 & 29.
Over grassy valley, asc. gently.
30.85 Road, brs. NNW. & SSE.
40.01 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
the ground for ¼ sec. cor., marked on brass cap,
¼ S 20 in N., and
¼ S 29 in S. half;
dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and
raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor.
49.00 Enter dense cedar timber, brs. N. & S.
80.02 To cor. of secs. 19, 20, 29 & 30, hereinbefore described.
Land, rolling gently.
Soil, 2nd & 3rd rate, sandy, gravelly,
Timber, cedar, some pinon. Good grass.

- S. 89° 58' W., on a random line, bet. secs. 19 & 30.
40.00 Set temp. ¼ sec. cor.
29.30 Intersect W. bdy. of Tp. 3 lks. S. of cor. of
secs. 19, 24, 25 & 30, recently established & described by me ^{in Book 2,} whence I run,
N. 89° 59' E., on a true line, bet. secs. 19 & 30.
Over rolling land, through scattering cedar.
15.00 Draw, 5 chs. wide, course NE.
25.00 Wash, 10 lks. wide, course N. enter dense cedar timber.
29.30 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
the ground for ¼ sec. cor., marked on brass cap,
¼ S 19 in N., and
¼ S 30 in S. half, from which,
A cedar tree 20 ins. diam. brs. N. 36° E. 69 lks. dist.,
marked ¼ S 19 B T.
A cedar tree 30 ins. diam. brs. S. 60° W. 272 lks. dist.,
marked ¼ S 30 B T.
79.30 To cor. of secs. 19, 20, 29 & 30, hereinbefore described.
Land, rolling, broken.
Soil, 3rd rate, gravelly, calcareous.
Cedar, pinon. Fair grass.

Nov. 24, 1911.

Chains.

Nov. 25, 1911.

hereinbefore described

At 8h a.m., l.m.t., at the cor. of secs. 19, 20, 29 & 30

I set off $20^{\circ}34'$ S. on the decl. arc, and $35^{\circ}16\frac{1}{2}'$ N. on the lat. arc, and determine a meridian with the solar. Thence I run,N. $0^{\circ}3'$ W., bet. secs. 19 & 20.

Desc. grad., through dense cedar.

6.00 Leave cedar, brs. E. & W., enter grassy draw.

18.00 Wash, 20 lks. wide, course ENE., asc. leave draw.

20.00 Top of rise, brs. E. & W., enter dense cedar.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 19 in W., and S 20 in E. half, from which,A cedar tree 10 ins. diam. brs. N. 10° E. 54 lks. dist., marked $\frac{1}{4}$ S 20 B T.A cedar tree 14 ins. diam. brs. S. 5° W. 33 lks. dist., marked $\frac{1}{4}$ S 19 B T.

80.00 Set an iron post 3 ft. long, 2 ins. in diam. 10 ins. in the ground, to bed-rock, in mound of stone for cor. of secs. 17, 18, 19 & 20, marked on brass cap,

T 22 N R 9 W, in N. half,

S 18 in NW.,

S 17 in NE.,

S 20 in SE., and

S 19 in SW. quadrants ; , from which,

A cedar tree 14 ins. diam. brs N. $10\frac{1}{2}^{\circ}$ E. 52 lks. dist., marked T 22 N R 9 W S 17 B T.A cedar tree 14 ins. diam. brs. S. 45° E. 78 lks. dist., marked T 22 N R 9 W S 20 B T.A cedar tree 14 ins. diam. brs. S. $35\frac{1}{2}^{\circ}$ W. 178 lks. dist., marked T 22 N R 9 W S 19 B T.A cedar tree 14 ins. diam. brs. N. 15° W. 116 lks. dist., marked T 22 N R 9 W S 18 B T.

Land, rolling, broken.

Soil, 3rd rate, gravelly.

Cedar, few pinon. Fair grass.

East, on a random line, bet. secs. 17 & 20.

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

80.04 Intersect N. & S. line at cor. of secs. 16, 17, 20 & 21, hereinbefore described, whence I run

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

Over gently rolling valley.

20.00 Asc. grad., few cedar trees.

40.02 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 17 in N., and S 20 in S. half,dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor. from which,A cedar tree 10 ins. diam. brs. S. 1° W. 158 lks. dist., marked $\frac{1}{4}$ S 20 B T.

44.40 Road, brs. NNW. & SSE.

60.00 Enter dense cedar brs. N. asc.

80.04 To cor. of secs. 17, 18, 19 & 20, hereinbefore described.

Land, rolling.

Soil, 3rd rate, sandy, calcareous, gravel.

Cedar, few cacti. Good grass in valley.

Chains.

- S. $89^{\circ}59'$ W., on a random line, bet. secs. 18 & 19.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 79.26 Intersect W. bdy. of Tp. 2 $\frac{1}{2}$ lks. S. of cor. of
secs. 13, 18, 19 & 24, recently established & described by me ^{in Book 2,} whence
East, on a true line, bet. secs. 18 & 19. I run,
Over rolling mesa, through dense cedar.
- 39.26 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 18 in N., and
S 19 in S. half, from which,
A cedar tree 30 ins. diam. brs. S. $67\frac{1}{2}^{\circ}$ W. 67 lks. dist.,
marked $\frac{1}{4}$ S 19 B T.
A cedar tree 40 ins. diam. brs. N. $24\frac{3}{4}^{\circ}$ W. 74 lks. dist.,
marked $\frac{1}{4}$ S 18 B T.
- 79.26 To cor. of secs. 17, 18, 19 & 20, hereinbefore described.
Land, rolling.
Soil, 3rd rate, calcareous gravel, stony.
Cedar, fair grass in places.
-
- N. $0^{\circ}3'$ W., bet. secs. 17 & 18.
Over heavily rolling land, desc. grad., through
dense cedar.
- 24.00 Leave cedar, brs. NW. & SE., enter valley.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 18 in W., and
S 17 in E. half,
dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and
raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 41.00 Wagon trail, brs. NW. & SE.
- 44.00 Road, brs. NW. & SE.
- 56.25 Dim road, brs. E. & W.
- 80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in
the ground for cor. of secs. 7, 8, 17 & 18, marked on
brass cap,
T 22 N R 9 W, in N. half,
S 7 in NW.,
S 8 in NE.,
S 17 in SE., and
S 18 in SW. quadrants;
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, 3rd rate, gravelly, sandy.
Cedar. Good grass in valley, scattering sage brush.
-
- East, on a random line, bet. secs. 8 & 17.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 30.06 Intersect N. & S. line 5 lks. N. of cor. of
secs. 8, 9, 16 & 17 hereinbefore described, whence I run
N. $89^{\circ}58'$ W., on a true line, bet. secs. 8 & 17.
Over gently undulating valley.
- 9.35 Road, brs. NNW. & SSE.
- 17.75 Road, centre of valley, brs. NNW. & SSE.
- 40.03 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 8 in N., and
S 17 in S. half,
dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and
raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
- 80.06 To cor. of secs. 7, 8, 17 & 18, hereinbefore described.
Land, rolling, gently. Soil, 3rd & 2nd rate, sandy, loamy.
Fine gramma grass, sparse sage brush, cacti.
At this cor., at noon, I set off $20^{\circ}38'$ S. on the
decl. arc, and observe the sun on the meridian.
The resulting lat. is $35^{\circ}18'$ N.

Chains.	
	West, on a random line, bet. secs. 7 & 18.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.24	Intersect W. bdy. of Tp. 5 lks. N. of cor. of secs. 7, 12, 13 & 18, recently established & described by me ^{in Book 2,} whence I run, N. $89^{\circ}58'$ E., on a true line, bet. secs. 7 & 18. Over rolling land, desc. in pasture of Francis & Campbell.
30.00	Wire fence, brs. N. 20° E. & S. 20° W., leave pasture, in valley.
39.24	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 7 in N., and S 18 in S. half, dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
79.24	To cor. of secs. 7, 8, 17 & 18, hereinbefore described. Land, rolling, Soil, 3rd rate, sandy, calcareous gravel. Sage brush, few cacti. Good grass.
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	N. $0^{\circ}3'$ W., bet. secs. 7 & 8.
	Over gently undulating valley.
40.00	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 7 in W., and S 8 in E. half, dig pits 18x18x12 ins. N. & S. of cor. 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. in diam. 24 ins. in the ground for cor. of secs. 5, 6, 7 & 8, marked on brass cap, T 22 N R 9 W, in N. half, S 6 in NW., S 5 in NE., S 8 in SE., and S 7 in SW. quadrants; 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, gently undulating. Soil, 2nd rate, loamy, calcareous clay underlying. Sparse sage brush, cacti. Good gramma grass.
<hr/>	
	S. $89^{\circ}58'$ E., on a random line, bet. secs. 5 & 8.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect cor. of secs. 4, 5, 8 & 9, hereinbefore described , whence I run N. $89^{\circ}58'$ W., on a true line, bet. secs. 5 & 8. Over mts. land, desc. SW. slope, through scattering cedar.
20.00	Foot, brs. NW. & SE., enter valley, leave cedar.
37.70	Road, brs. NNW. & SSE.
40.00	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 5 in N., and S 8 in S. half, dig pits 18x18x12 ins. E. & W. of cor. 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	Main road, brs. NNW. & SSE.
80.00	To cor. of secs. 5, 6, 7 & 8, hereinbefore described. Land, mts., rolling. Soil, 2nd & 3rd rate, sandy, gravelly, . Cedar, few pinon. cacti, fair grass in valley.

Chains.

- S. 89° 53' W., on a random line, bet. secs. 6 & 7.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 79.20 Intersect W. bdy. of Tp. 5 lks. S. of cor. of
secs. 1, 6, 7 & 12, recently established & described by me ^{in Book 2,} whence I run,
East, on a true line, bet. secs. 6 & 7.
Across level valley, fine grass.
- 39.20 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 6 in N., and
S 7 in S. half;
dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and
raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
- 79.20 To cor. of secs. 5, 6, 7 & 8, hereinbefore described.
Land, level.
Soil, 2nd rate, sandy, heavy calcareous gravel, loamy.
Sparse sage brush and cacti. Fine native grass.
-
- N. 0° 7' W., on a random line, bet. secs. 5 & 6.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.04 Intersect N. bdy. of Tp. 12 lks. E. of cor. of ^{in Book 2,}
secs. 5, 6, 31 & 32, recently established & described by me, whence I run,
S. 0° 12' E., on a true line, bet. secs. 5 & 6.
Over gently undulating valley.
- 40.04 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 6 in W., and
S 5 in E. half,
dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and
raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 43.00 Road, brs. NNW. & SSE.
- 80.04 To cor. of secs. 5, 6, 7 & 8, hereinbefore described.
Land, gently undulating.
Soil, 3rd rate, gravelly, sandy, loose., dry.
Sparse sage brush. Good native grass.

Nov. 25, 1911.

- General Description. -

This Township is in general rolling or hilly, being smooth in the NE. & NW. portions.

There is some cedar timber in parts of the Tp., in the higher portions, while the valleys are covered with a fine growth of grama or native grass. Nearly all of the Tp. is good grazing land, and the valley would produce well, if irrigated.

There is no water in the Tp., and from the indications and test wells in several portions of this district, water lies several hundred feet underground.

There are no indications of mineral in the Tp., the outcroppings on the higher ridges and hills being barren limestone.

No settlers are located in this Township.

Jesse B. Wright
U. S. Surveyor.

Subdivisions Group 15

CERTIFICATE OF ASSISTANTS.
(same applies to Books "D", "H", "N", "P" & "R")

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability,
Jesse B. Wright, U. S. Surveyor, during the periods and in the capacities
stated opposite our several signatures, in surveying all those parts or portions of the

Subdivisional Lines,

Tps. 22 & 23 N.-R. 9 W., Tps. 23, 24 & 25 N.-R. 7 W., & T. 26 N.-R. 8 W.

under

Group No. 15,

in

of the Gila & Salt River Base & Meridian, in the State of Arizona,

which are represented in the foregoing field notes as having been executed by him, and under his 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.	ENDED.	
<u>Hubert W. Worcester</u>	<u>Nov. 1, 1911.</u>	<u>Jan. 21, 1912.</u>	<u>Chairman.</u>
<u>Henry R. Harvey</u>	<u>Nov. 1, 1911.</u>	<u>Jan. 21, 1912.</u>	<u>Flagman.</u>
<u>Elmer Welch</u>	<u>Nov. 7, 1911.</u>	<u>Jan. 21, 1912.</u>	<u>Moundman.</u>
<u>John H. Bates</u>	<u>Nov. 1, 1911.</u>	<u>Jan. 21, 1912.</u>	<u>Moundman.</u>
<u>Samuel Kennedy</u>	<u>Nov. 1, 1911.</u>	<u>Jan. 21, 1912.</u>	<u>Chairman.</u>
<u>Frank D. Dand</u>	<u>Nov. 1, 1911.</u>	<u>Dec. 30, 1911.</u>	<u>Axeman.</u>
<u>Bert H. Miller</u>	<u>Jan. 7, 1912.</u>	<u>Jan. 12, 1912.</u>	<u>Chairman.</u>

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

Jesse B. Wright
U. S. Surveyor.

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Subdivisions Group 15

FINAL OATH OF UNITED STATES SURVEYOR.
(same applies to Books "D", "H", "N", "P" & "R")

I, Jesse B. Wright, 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 28th day of August, 1911, 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
Subdivision of Tps. 22 & 23 N., R. 9 W.
Subdivision of Tps. 23, 24 & 25 N., R. 7 W.
Subdivision of T. 26 N., R. 8 W. under
Group 15,

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

Jesse B. Wright
U.S. Surveyor.

Subscribed by said Jesse B. Wright, and sworn to before me }
this 15th day of October, 1912



Frank S. Ingalls
SURVEYOR-GENERAL OF ARIZONA

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,
Phoenix, Arizona, April 21, 1913

The foregoing field notes of the survey of
the subdivision lines of Township 22 North, Range 9 West
Gila & Salt River Base & Meridian
Arizona

executed by Jesse B. Wright, U.S. Surveyor
under his special instructions ^{for Group 15} dated August 28, 1911, 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. Ingalls
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.