

Book K
2303 BOOK 2303
FIELD NOTES

64
1

OF THE SURVEY OF THE

2303

Subdivision Lines of T₂₂N, R₁₃W

2303

Of the *Glad R.* Meridian,

In the State of *Territory of Arizona*

EXECUTED BY

James B. Wright

In the capacity of U. S. Surveyor..., under instructions dated *Sept. 16, 1910*,
issued by the United States Surveyor General to govern surveys included in
Group No. *9*, which were approved by the Commissioner of the General Land
Office, *Sept. 28*, 1910, pursuant to authority contained in the Act of
Congress dated *February 27, 1899*.

2303

Survey commenced *July 7*, 191*1*

Survey completed *July 11*, 191*1*

2303

2303

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IA

For Catts, see Book B.

INDEX DIAGRAM.

Township 22 N, Range 13 W.

6	25	5	19	4	15	3	10	2	6	1
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Note:

6-151

For E. Bdy. see Book A. Group 9
 " D. & W. Bds. see Book A " 10

Chains.

Survey commenced Feb. 21, 1911, and executed with a W. & L. E. Gurley light mountain transit, special make, unnumbered, with Burt's patent solar attachment. The horizontal limb of the instrument is provided with two double verniers placed opposite to each other and each reading to 1' of arc, which is also the least reading of the verniers of the latitude and declination arcs. Before beginning the survey of the subdivision of this Township, I examine, test and adjust the levels, the line of collimation, and standards of the instrument, and also the polar axis, and the solar lines and lenses of the solar apparatus.

Then, having all parts of the instrument in precise adjustment as to tests; in order to test the solar apparatus, by comparing the results of observations on the sun, for meridians, made during p.m. & a.m. hours, respectively, with a true meridian as determined by observation of Polaris; I proceed as follows: -

At 8h p.m., l.m.t., at the cor. of secs. 1, 2, 35 & 36, on the S. bdy. of the Tp., as re-established by me and heretofore described, lat. $35^{\circ}15'$ N., long. $113^{\circ}57'53''$ W. I set off $15^{\circ}51'$ S. on the decl. arc, and $35^{\circ}15'$ N. on the lat. arc, and determine a meridian with the solar, and mark a point in the meridian thus determined by a tack in a stake driven firmly in the ground 5 chs. N. of my station.

At 10h 25m p.m., l.m.t., I observe Polaris at W. elongation, in accordance with instructions in the "Manual", and mark the line thus determined by a tack in a stake driven firmly in the ground 6 chs. N. of my station.

Feb. 22, 1911.

Feb. 23, 1911.

At 8h a.m., l.m.t., I set off the azimuth of Polaris, $1^{\circ}25'$ to the East, and mark the true meridian thus determined by a tack in the stake driven in the ground 5 chs. N. of my station, which point falls 20 ins. S. of the point in the meridian as determined by the solar on preceding afternoon.

Then I set off $15^{\circ}40'$ S. on the decl. arc, and $35^{\circ}15'$ N. on the lat. arc, and determine a meridian with the solar, which meridian coincides with the meridian as determined by observation of Polaris.

The solar apparatus, by p.m. & a.m. observations, defines positions for meridians, about $21''$ W., and identical with the true meridian as determined by Polaris observation. Therefore, from these observations, I conclude that my instrument is in satisfactory adjustment.

The magnetic bearing of the true meridian, at 8h a.m., is N. $15^{\circ}20'$ W.; the angle thus determined gives the magnetic declination as $15^{\circ}20'$ E.

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

Chains.

- N. $0^{\circ} 1'$ W., bet. secs. 35 & 36.
Over rolling land, drains to SW. dense cedar. 101.
- 10.00 Wash, 50 lks. wide, course SW.
- 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, thence through scattering cedar.
- 73.00 Wash, 30 lks. wide, course SW.
- 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. 13 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 cedar tree 15 ins. diam. brs. N. $1^{\circ} 54'$ E. 182 lks. dist., marked T. 22 N., R. 13 W. S. 25 B.T.
A cedar tree 18 ins. diam. brs. N. $60\frac{3}{4}^{\circ}$ W. 285 lks. dist., marked T. 22 N., R. 13 W. S. 26 B.T.
A cedar tree 10 ins. diam. brs. S. $63^{\circ} 40'$ W. 303 lks. dist., marked T. 22 N., R. 13 W. S. 35 B.T.
A cedar tree 12 ins. diam. brs. S. 37° E. 231 lks. dist., marked T. 22 N., R. 13 W. S. 36 B.T.
- Land, rolling.
Soil, 3rd rate, gravelly.
No timber
Undergrowth, cedar, palonegro, cacti. Good native grass.
-
- S. $89^{\circ} 57'$ E., on a random line, bet. secs. 25 & 36.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.04 Intersect E. bdy. of Tp. at point 7 lks. S. of cor. of secs. 25, 30, 31 & 36, whence I run,
West, on a true line, bet. secs. 25 & 36.
Over rolling land, desc. grad., through scattering cedar.
- 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. 25 in N., and
S. 36 in S. half; from which,
A cedar tree 10 ins. diam. brs. N. 69° E. 13 lks. dist., marked $\frac{1}{4}$ S. 25 B.T.
A cedar tree 14 ins. diam. brs. S. $25\frac{3}{4}^{\circ}$ W. 139 lks. dist., marked $\frac{1}{4}$ S. 36 B.T.
- 77.65 Wash, 40 lks. wide, course SSW.
- 80.04 To cor. of secs. 25, 26, 35 & 36,
Land, rolling.
Soil, 3rd rate, gravelly, sandy.
Scattering cedar, palonegro. Good grass.
At this cor. at noon, clouds obscure the sun.
Impracticable to observe lat.

Chains.

- N. 0° 1' W., bet. secs. 25 & 26.
Over rolling land, drains to SW., through dense cedar.
- 2.73 Wash, 70 lks. wide, course SW.
- 39.25 Arroyo, 30 lks. wide, course SW.
- 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 5 ins. diam. brs. S. 61° W. 45 lks. dist., marked $\frac{1}{4}$ S. 26 B.T.
A cedar tree 8 ins. diam. brs. N. 82 $\frac{1}{4}$ ° E. 86 lks. dist., marked $\frac{1}{4}$ S. 25 B.T.
- 41.00 Top of knell, brs. SW. & NE., desc. gently.
Leave cedar, 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. 23, 24, 25 & 26, marked on brass cap,
T. 22 N., R. 13 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. N. & S. of cor. 3 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, palonegro, cacti. Good native grass.
-
- East, on a random line, bet. secs. 24 & 25.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.08 Intersect E. bdy. of Tp. at point 2 lks. S. of cor. of secs. 19, 24, 25 & 30, whence I run,
S. 89° 59' W., on a true line, bet. secs. 24 & 25.
Over gently rolling land, desc. grad., through scattering cedar, and oak brush.
- 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. 24 in N., and
S. 25 in S. half; from which,
A cedar tree 18 ins. diam. brs. S. 33 $\frac{1}{2}$ ° W. 278 lks. dist., marked $\frac{1}{4}$ S. 25 B.T.
A cedar tree 6 ins. diam. brs. N. 44° E. 214 lks. dist., marked $\frac{1}{4}$ S. 24 B.T.
- 80.08 To cor. of secs. 23, 24, 25 & 26.
Land, rolling. Soil, 3rd rate, gravelly, sandy.
Scattering cedar, palonegro, scrub oak. Good grass.
-
- N. 0° 1' W., bet. secs. 23 & 24.
Over gently rolling land, through scattering cedar.
- 7.27 Arroyo, 30 lks. wide, course WSW.
- 34.80 Wash, 15 lks. wide, course WSW.
- 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.
- 79.60 Wash, 20 lks. wide, course W.
- 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. 13 W. in N. half,
S. 14 in NW.,
S. 13 in NE.,
S. 24 in SE., and
S. 23 in SW. quadrants,
raise a mound of stone 3 ft. base, 2 ft. high W. of cor.
Land, rolling. Soil, 3rd rate, gravelly, sandy.
Cedar, palonegro, cacti, greasewood. Good native grass.

Chains

N. 89° 59' W., on a random line, bet. secs. 13 & 24.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.00 Intersect E. bdy. of Tp. at point 3 lks. N. of cor. of
 secs. 13, 18, 19 & 24, whence I run,
 West, on a true line, bet. secs. 13 & 24.
 Over rolling land, desc. grad., through scattering
 palonegro, cholla cacti. Sparse 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. 13 in N. half,
 $\frac{1}{4}$ S. 24 in S. half,
 raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high N. of cor.
 No bearings available. Pits impracticable.
 63.00 Dim road, brs. NW. & SE.
 80.00 To cor. of secs. 13, 14, 23 & 24.
 Land, rolling.
 Soil, 3rd rate, gravelly,
 Scattering palonegro, cacti, greasewood. Fair grass in
 places. Feb. 3, 1911.

Feb. 4, 1911.
 Rainy, stormy, all day, no field work possible.

Feb. 5, 1911.
 At 8h a.m., 1.m.t., at the cor. of secs. 13, 14, 23 & 24,
 I set off 16° 5' S. on the decl. arc, and 35° 17' N. on the
 lat. arc, and determine a true meridian with the solar.
 Thence I run,

N. 0° 1' W., bet. secs. 13 & 14.
 Over heavily rolling, broken land,
 Wash, 20 lks. wide, course SW., asc. grad.
 1.00 Road, brs. NW & SE.
 35.00 Top of W. point of long ridge, brs. W. & E., desc. 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. 14 in W., and
 $\frac{1}{4}$ S. 13 in E. half,
 raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
 41.80 Wash, 20 lks. wide, course WNW.,
 57.15 Dim road, brs. E. & W.
 67.30 Wash, 80 lks. wide, course W., asc. grad.
 76.50 Wash, 50 lks. wide, course WSW., asc.
 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. 13 W. in N. half,
 S. 11 in NW.,
 S. 12 in NE.,
 S. 13 in SE., and
 S. 14 in SW. quadrants,
 raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high W. of cor.
 No bearings available. Pits impracticable.
 Land, broken, rolling.
 Soil, 3rd rate, gravelly, stony.
 Scattering palonegro, cacti, sage brush. Good grazing.

Chains

- East, on a random line, bet. secs. 12 & 13.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 79.94 Intersect E. bdy. of Tp. at point 7 lks. S. of cor. secs. 7, 12, 13 & 18, whence I run, S. $89^{\circ} 57'$ W., on a true line, bet. secs. 12 & 13.
Over mts., broken, stony land, desc. grad.
- 4.00 Gulch, 50 lks. wide, course SW.
Desc. grad. along N. side of wash, runs W.
- 39.97 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,
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
- 69.60 Wash, 50 lks. wide, course SW.
- 79.94 To cor. of secs. 11, 12, 13 & 14.
Land, broken, mts.
Soil, 3rd rate, gravelly, stony.
Scattering palonegro, greasewood, sage brush, cacti.
Good native grass in places.
-
- N. $0^{\circ} 1'$ W., bet. secs. 11 & 12.
Over broken, rolling land, asc. grad.
- 37.00 Wash, 50 lks. wide, course W., asc.
- 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,
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 70.00 Main wash, 250 lks. wide, course WNW., asc. steeper.
- 72.00 Asc. steep.
- 80.00 Top of rocky spur, brs. WSW. and ENE.
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. 13 W. in N. half,
S. 2 in NW.,
S. 1 in NE.,
S. 12 in SE., and
S. 11 in SW. quadrants,
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
No bearings available. Pits impracticable.
Land, broken, mts. rolling.
Soil, 3rd rate, gravelly, stony.
Scattering palonegro, greasewood, cacti, few cedars.
Good native grass in places.
At this cor. at apparent noon, I set off $16^{\circ} 3\frac{1}{2}'$ S. on the decl. arc, and observe the sun on the meridian.
The resulting lat. is $35^{\circ} 19\frac{1}{2}'$ N.

C chains.

- N. $89^{\circ}57'$ E., on a random line, bet. secs. 1 & 12.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.04 Intersect E. bdy. of Tp. at point $2\frac{1}{2}$ lks. N. of cor. of
 sec. 1, 6, 7 & 12, whence I run,
 S. $89^{\circ}58'$ W., on a true line, bet. secs. 1 & 12.
 Over mts. land, desc. through dense palenegro, cacti.
 4.00 Gulch, 50 lks. wide, course SW., asc.
 21.00 Top of SW. point of spur, brs. SW. & NE., desc. grad.
 along SSW. slope, leave dense undergrowth.
 40.02 Impracticable to set iron post, therefore, I
 Set a malapais stone, $24 \times 12 \times 8$ ins., on barren bed-rock,
 in mound of stone, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face,
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
 No bearings available. Pits impracticable.
 Asc. grad. from cor. on S. side of ridge.
 80.04 To cor. of secs. 1, 2, 11 & 12.
 Land, mts., broken.
 Soil, 3rd rate, gravelly, stony., barren in places.
 Palenegro, cacti, greasewood. Good grass in places.
-
- on a true line
 N. $0^{\circ}1'$ W., bet. secs. 1 & 2.
 Over rough mts. land,
 1.50 Desc. MNW. slope.
 20.55 Gulch, 80 lks. wide, course W., asc.
 34.05 Ledge of blue traprock, brs. NW. & SE.
 The large flat surfaces of this ledge on N. side is
 covered with many indian hieroglyphics, and signs.
 desc. prec.
 36.55 Gulch, 50 lks. wide, course W., asc. steep.
 40.00 Impracticable to set iron post, therefore I
 Set a syenite stone $28 \times 12 \times 10$ ins. 21 ins. in the ground
 for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and
 raise a mound of stone 3 ft. base, 2 ft. high W. of cor.
 No bearings available. Pits impracticable.
 50.55 Top of ridge, brs. W. & E. desc.
 A shaft, 4×6 ft. about 60 ft. deep, brs. E. 20 chs.
 62.55 A small frame house, brs. East 2 chs. dist.
 64.65 Dim road, brs. E. & W. thence over very broken stony land.
 66.25 Gulch, 80 lks. wide, course W.,
 70.93 Gulch, 80 lks. wide, course SW.
 78.55 Gulch, 50 lks. wide, course SW. asc.
 83.00 Small spur, very stony, brs. W. & E., desc.
 90.55 Intersect S. bdy. of T. 23 N., R. 13 W., at a point
 whence the $\frac{1}{4}$ sec. cor. on S. bdy. of Sec. 36,
 brs. East, 6.05 chs. dist., which is a granite boulder
 in place, $4 \times 4 \times 3$ ft. above ground, marked and witnessed
 as described by the Surveyor General.
 At point of intersection, it being impracticable to set
 an iron post, I
 Set a malapais stone, $24 \times 14 \times 12$ ins., on barren boulders,
 in mound of stone, for closing cor. of secs. 1 & 2,
 marked C.C. on S., with 1 groove on E., & 5 grooves on W. faces.
 raise a mound of stone 4 ft. base, 3 ft. high S. of cor.
 No bearings available. Pits impracticable.
 Cor. is on S. side of stony gulch, ground covered
 with large boulders. near foot of steep SW. slope.
 Land, broken, mts., rough.
 Soil, 3rd & 4th rate, gravelly, stony.
 Scattering palenegro, paloverde, cacti, scrub oak,
 sparse grass.
 Feb. 5, 1911.

Chains.

- Feb. 6, 1911.
At 8h a.m., l.m.t., at the cor. of secs. 2, 3, 34 & 35,
on the S. bdy. of Tp.,
I set off $15^{\circ}46'$ S. on the decl. arc, and $35^{\circ}15'$ N. on the
lat. arc, and determine a true meridian with the solar.,
Thence I run.
- N. $0^{\circ}1'$ W. bet. secs. 34 & 35.
Over rolling, broken, land.
- 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. 34 in W., and
S. 35 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.
- 52.00 Wash, 80 lks. wide, in draw 8 chs. wide, course W.
- 54.00 Wash, 20 lks. wide, course 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. 26, 27, 34 & 35, marked on
brass cap,
T. 22 N., R. 13 W. in N. half,
S. 27 in NW.,
S. 26 in NE.,
S. 35 in SE., and
S. 34 in SW. quadrants,
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
Land, rolling, Soil, 3rd rate, gravelly, sandy.
Scattering greasewood, sage brush, palonegre. Good grass.
-
- S. $89^{\circ}57'$ E., on a random line, bet. secs. 26 & 35.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.02 Intersect N. & S. line at point 5 lks. S. of cor. of
secs. 25, 26, 35 & 36, whence I run,
N. $89^{\circ}59'$ W., on a true line, bet. secs. 26 & 35.
Over rolling land, desc. grad.
- 1.65 wash, 70 lks. wide, course SW. asc.
- 6.95 Top of flat ridge, brs. SW. & NE., desc. grad.
- 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. 26 in N. and
S. 35 in S. half,
dig pits $18 \times 18 \times 12$ 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 Middle of draw 6 chs. wide, course SW.
- 80.02 To cor. of secs. 26, 27, 34 & 35.
Land, rolling. Soil, 3rd rate, sandy, gravelly.
No timber. Undergrowth, sparse greasewood, sage brush.
cacti. Good native grass.
-
- N. $0^{\circ}1'$ W., bet. secs. 26 & 27.
Over rolling land,
- 15.00 Draw 4 chs. wide, course SW.
- 30.00 Knoll, brs. WSW. & ENE., desc. 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. 27 in W., and
S. 26 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.
- 50.00 Middle of draw, 4 chs. wide, course SW., asc. grad.
- 60.00 Knoll, flat, ridge, brs. SW. & NE., desc. gently.
- 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. 13 W. in N. half,
S. 22 in NW., S. 23 in NE., S. 26 in SE. and
S. 27 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, sandy. Sparse cacti. good grass.

Chains.	S. 89°59' E., on a random line, bet. secs. 23 & 26.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.08	Intersect N. & S. line at cor. of secs. 23, 24, 25 & 26, whence I run,
	N. 89°59' W., on a true line, bet. secs. 23 & 26.
	Over rolling land, through scattering cedar, cacti.
18.00	Wash, 30 lks. wide, course WSW.
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. 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.
45.00	Draw 4 chs. wide, course SW. asc. grad.
60.00	Top of knell, brs. SW. & NE., desc. grad.
80.08	To cor. of secs. 22, 23, 26 & 27.
	Land, rolling. Soil, 3rd rate, gravelly, sandy. Few cedar, cacti. Good native grass. At this cor. at apparent noon, I set off 15° 45' S. on the decl. arc, and observe the sun on the meridian. The resulting lat. is 35° 17' N.
	N. 0° 1' W., bet. secs. 22 & 23.
	Over rolling land,
38.15	Dim road, brs. NW. & SE. in draw, 4 chs. wide, course SW.
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, 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. 14, 15, 22 & 23, marked on brass cap, T. 22 N., R. 13 W. in N. half, S. 15 in NW., S. 14 in NE., S. 23 in SE., and S. 22 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, loose, moist in places. Scattering sage brush, greasewood. Good native grass.
	S. 89°59' E., on a random line, bet. secs. 14 & 23.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect N. & S. line at point $2\frac{1}{2}$ lks. S. of cor. of secs. 13, 14, 23 & 24, whence I run, West, on a true line, bet. secs. 14 & 23. Over rolling land, desc. grad.
.70	Wash, 20 lks. wide, course WSW., asc. grad.
8.50	Knell, brs. SW. & NE., desc. 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. 14 in N. half, and S. 23 in S. half, raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor. No bearings available. Pits impracticable.
80.00	To cor. of secs. 14, 15, 22 & 23. Land, rolling. Soil, 3rd rate, sandy, gravelly, loose, moist in places. Sparse greasewood, sage brush, cacti. Good native grass. Feb. 6, 1911.

Chains.

Feb. 7, 1911.
At 8h a.m., l.m.t., at the cor. of secs. 14, 15, 22 & 23,
I set off $15^{\circ}20'$ S. on the decl. arc, and $35^{\circ}17\frac{1}{2}'$ N. on the
lat. arc, and determine a true meridian with the solar.
Thence I run.

N. $0^{\circ}1'$ W., bet. secs. 14 & 15.

31.00 Over rolling land, drains to W., fair grazing. open.
Road, brs. W. & E., 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. 15 in W., and
S. 14 in E. half,

60.00 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.
Wash, 50 lks. wide, in draw 5 chs. wide, course WNW.

77.90 Wash, 50 lks. wide, course W., asc.

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. 13 W. in N. half,

S. 10 in NW.,

S. 11 in NE.,

S. 14 in SE., and

S. 15 in SW. quadrants,

raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.

No bearings available. Pits impracticable.

Land, rolling.

Soil, 3rd rate, sandy, gravelly, loose.

Sparse vegetation or undergrowth. Good native grass.

East, on a random line, bet. secs. 11 & 14.

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

80.02 Intersect N. & S. line at cor. of secs. 11, 12, 13 & 14,
whence I run,

West, on a true line, bet. secs. 11 & 14.

Over rolling, broken land, drains to W., descending grad.

89.00 Old road, brs. NW. & SE.

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. 11 in N., and
S. 14 in S. half,

76.20 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
Wash, 40 lks. wide, course WSW.

80.02 To cor. of secs. 10, 11, 14 & 15.

Land, rolling, somewhat broken.

Soil, 3rd rate, gravelly, sandy.

Sparse palenegro, cacti, sage brush. Good native grass.

N. $0^{\circ}1'$ W., bet. secs. 10 & 11.

Over rolling, land, drains to W.

1.00 Wash, 20 lks. wide, course SW.

27.15 Wash, 15 lks. wide, course WSW.

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,

48.00 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
Draw 3 chs. wide, course WSW.,

59.00 Dim road, brs. NW. & SE.

75.00 Wash, 250 lks. wide, course WNW., asc.

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. 13 W. in N. half,

S. 3 in NW., S. 2 in NE., S. 11 in SE., and

S. 10 in SW. quadrants,

raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.

Land, rolling, broken. Soil, 3rd rate, gravelly, sandy.

Scattering palenegro, cacti. Good grazing.

Chains.

East, on a random line, bet. secs. 2 & 11.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.96 Intersect N. & S. line at cor. of secs. 1, 2, 11 & 12,
 whence I run,
 West, on a true line, bet. secs. 2 & 11.
 Over heavily rolling land, desc.
 35.00 Foot of main slope of long spur, brs. NNE. & SSW., desc.
 grad.
 37.80 Wash, 20 lks. wide, course WSW.
 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. 2 in N., and
 S. 11 in S. half,
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
 50.90 Wash, 80 lks. wide, course SW.
 79.96 To cor. of secs. 2, 3, 10 & 11.
 Land, mts., rolling.
 Soil, 3rd rate, stony, gravelly.
 Scattering palonegro, cacti, tesseta. Good grazing.

N. 0° 1' W., on a true line, bet. secs. 2 and 3.
 Over heavily rolling land, desc.
 7.00 Wash, 50 lks. wide, course W., asc.
 15.00 Low ridge, brs. W. & E., desc.
 25.50 Old road, in wash, course W., 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. 3 in W., and
 S. 2 in E. half,
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 67.00 Wash, 50 lks. wide, course SW.
 81.00 Wash, 50 lks. wide, course SSW., asc.
 90.50 Intersect S. bdy. of T. 23 N., R. 13 W. at a point
 whence $\frac{1}{4}$ sec. cor. on S. bdy. of sec. 35,
 brs. East, 6.20 chs. dist., which is a granite rock
 in place, 5x4x4 ft. above ground, marked and witnessed
 as described by the Surveyer General,
 At point of intersection, it being impracticable to
 set an iron post, I
 Set a granite stone 20x10x10 ins. on bed-rock, in mound of
 stone for closing cor. of secs. 2, & 3, marked C.C. on S.,
 with 2 grooves on E. & 4 grooves on W. faces, and
 raise a mound of stone 3 ft. base, 2 ft. high S. of cor.
 No bearings available. Pits impracticable.
 Land, rolling, mts., broken.
 Soil, 3rd rate, gravelly, stony.
 Undergrowth, scattering palonegro, cacti, greasewood.
 Fair grass in smooth land.

Feb. 7, 1911.

Chains.

- Feb. 8, 1911.
At 8h a.m., l.m.t., at the cor. of secs. 3, 4, 33 & 34,
on the S. bdy. of Tp.,
I set off 15° 10' S. on the decl. arc, and 35° 15' N. on the
lat. arc, and determine a true meridian with the solar.
Thence I run,
N. 0° 2' W., bet. secs. 33 & 34.
Over rolling land, desc. grad.
19.90 Ravine, course N.E.
33.90 Gulch, 20 lks. wide, course E.
40.00 Gulch 30 lks. wide, course ESE. asc.
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, from which,
A cedar tree 10 ins. diam. brs. N. 85° E. 66 lks. dist.,
marked $\frac{1}{4}$ S. 34 B.T.
A cedar tree 10 ins. diam. brs. West, 82 lks. dist.,
marked $\frac{1}{4}$ S. 33 B.T.
44.00 Top of flat ridge, brs. ESE. & WNW., desc.
60.00 Foot of main slope, enter flat, E. & W.
75.00 Wash, 50 lks. wide, course E., in draw 6 chs. wide,
A small reservoir and dam is in same about 6 chs. E.
79.00 Leave draw, asc.
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. 13 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, mts., rolling, broken.
Soil, 3rd rate, gravelly, sandy.
Scattering cedar, palonegro. Good grass in draws.
-
- S. 89° 57' E., on a random line, bet. secs. 27 & 34.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
79.98 Intersect N. & S. line at point 7 lks. S. of cor. of
secs. 26, 27, 34 & 35, whence I run,
West, on a true line, bet. secs. 27 & 34.
Over heavily rolling land, desc. grad.
28.00 Wash, 30 lks. wide, in draw 4 chs. wide, course SW.
27.00 Enter flat of Little Sandy wash, brs. N. & S.
35.00 Small reservoir $\frac{1}{4}$ mile to N. also
Small reservoir $\frac{1}{4}$ mile to S.
39.99 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,
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.
42.00 Little Sandy wash, 40 lks. wide, course S.
42.50 Road, Hackberry to Sandy and Signal, brs. N. & S.
44.00 Leave valley, asc.
60.00 Top of knoll, near S. end, brs. S. & N., desc. grad.
75.00 Desc.
79.98 To cor. of secs. 27, 28, 33 & 34.
Land, rolling.
Soil, 3rd rate, sandy, gravelly, loose, moist in places.
Scattering palonegro, cacti, tesselata. Good native grass.

Chains

N. 0° 2' W., bet. secs. 27 & 28.
 Over rolling land, through scattering cedar. asc.
 13.00 Top of W. side of round knoll, brs. W. & E., desc. grad.
 34.00 Enter draw, course E.
 36.00 New corral, brs. W. 4 chs. dist.
 38.00 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. 28. in W., and
 $\frac{1}{4}$ 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.
 42.90 Wash, 20 lks. wide, course ESE. Leave draw. asc.
 59.40 Top of knoll, brs. ESE. & WNW., desc.
 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. 13 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, heavily rolling.
 Soil, 3rd rate, sandy, gravelly.
 Sparse undergrowth. Good native grass,
 At this cor. at apparent noon I set off $15^{\circ} 8\frac{1}{2}'$ S. on the
 decl. arc, and observe the sun on the meridian.
 The resulting lat. is $35^{\circ} 17'$ N.

East, on a random line, bet. secs. 22 & 27.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.00 Intersect N. & S. line at cor. of secs. 22, 23, 26 & 27,
 whence I run,
 West, on a true line, bet. secs. 22 & 27.
 Over broken, rolling land, descending gradually.
 10.72 Draw, 4 chs. wide, course SSW., near head.
 14.00 Draw, 3 chs. wide, course SSW. Enter valley of Sandy wash.
 38.00 Draw, 8 chs. wide, course SSW.
 38.83 Road, Hackberry to Sandy and Signal, brs. N. & S.
 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 N., and
 $\frac{1}{4}$ S. 27 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.
 66.00 Draw, 3 chs. wide, course SSE. Leave valley, asc. grad.
 69.28 Draw, 2 chs. wide, course SE.
 80.00 To cor. of secs. 21, 22, 27 & 28.
 Land, broken, rolling. open.
 Soil, 3rd rate, sandy, gravelly.
 No timber or undergrowth. Good native grass.

Chains.

- No 0° 2' W., bet. secs. 21 & 22.
 Over rolling land, drains ESE.
- 10.00 Draw 4 chs. wide, course SE.
- 30.00 Draw 4 chs. wide, course ESE.
- 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. 13 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.
 Land, rolling. Soil, 3rd rate, sandy. open.
 Scant undergrowth. Good native grass.
-
- East, on a random line, bet. secs. 15 & 22.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.02 Intersect N. & S. line at cor. of secs. 14, 15, 22 & 23, whence I run,
 West, on a true line, bet. secs. 15 & 22.
 Over rolling, open land, good grass, gravelly soil.
- 24.00 Draw 4 chs. wide, course SW.
- 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. 15 in N., and
 S. 22 in S. half,
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
- 54.17 Main road, Hackberry to Sandy & Signal, brs. N. & S. in low divide between waters of Truxton Canyon and Sandy, brs. E. & W. asc. grad.
- 80.02 To cor. of secs. 15, 16, 21 & 22.
 Land, rolling. Soil, 3rd rate. sandy, gravelly. open.
 No timber or undergrowth. good native grass, in places.
-
- N. 0° 2' W., bet. secs. 15 & 16.
 Over rolling land, drains NE., desc. 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. 16 in W., and
 S. 15 in E. half,
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 52.28 Main road, Hackberry to Sandy & Signal, brs. NNW. & SSE.
- 56.00 Wash, 50 lks. wide, course NNW.
- 69.20 Wash, 10 lks. wide, course WNW., asc. grad. land drains to WNW.
- 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. 13 W. in N. half,
 S. 9 in NW.,
 S. 10 in NE.,
 S. 15 in SE., and
 S. 16 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, dry.
 Scant undergrowth, Good native grass.

Chains.
 East, on a random line, bet. secs. 10 & 15.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.04 Intersect. N. & S. line at point 5 lks. S. of cor. of secs. 10, 11, 14 & 15, whence I run, S. $89^{\circ}58'$ W., on a true line; bet. secs. 10 & 15.
 29.04 ^{1.50} Wash, 20 lks. wide, course S.W. Over rolling land, desc. grad. Old road, brs. NW. & SE:
 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. 10 in N., and S. 15 in S. half, raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
 43.75 Draw, 3 chs. wide, course WSW..
 72.00 Wash, 50 lks. wide, course N., asc. grad.
 80.04 To cor. of secs. 9, 10, 15 & 16.
 Land, rolling.
 Soil, 3rd rate, sandy, gravelly.
 Scant undergrowth, few mesquite, tesseta. Good grass.

N. $0^{\circ}2'$ W., bet. secs. 9 & 10.
 Over rolling land, desc. grad.
 12.65 Wash, 50 lks. wide, course NW.
 19.00 Draw, 4 chs. wide, course W. asc. grad.
 37.65 Road, 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. 9 in W., and S. 10 in E. half, raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 40.50 Top of low round butte, desc. grad.
 66.00 Draw 8 chs. wide, course W. asc. grad.
 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,
 T. 22 N., R. 13 W. in N. half,
 S. 4 in NW.,
 S. 3 in NE.,
 S. 10 in SE.; and
 S. 9 in SW. quadrants,
 raise a mound of stone 3 ft. base, 2 ft. high W. of cor.
 Land, rolling.
 Soil, 3rd rate, gravelly, sandy.
 Scant undergrowth, tesseta, mesquite, cacti.
 Good native grass.

Chains.

N. 89°58' E., on a random line, bet. secs. 3 & 10.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.04 Intersect N. & S. line at point 2 lks. N. of cor. of
 secs. 2, 3, 10 & 11, whence I run,
 S. 89°59' W., on a true line, bet. secs. 3 & 10.
 Over rolling land, desc. grad., in valley.
 13.00 Wash, 20 lks. wide, course NW.
 34.00 Enter wash, 200 lks. wide, course WNW.
 39.50 Leave wash, runs WNW.
 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. 3 in N., and
 S. 10 in S. half,
 raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high N. of cor.
 47.40 Wash, 20 lks. wide, course WNW.
 57.00 Dim road, brs. WNW. & ESE.
 65.84 Dim road, brs. NNE. & SSW.
 80.04 To cor. of secs. 3, 4, 9 & 10.
 Land, rolling. Soil, 3rd rate, gravelly, sandy.
 Undergrowth, sparse mesquite, tesselata, cacti. Good grass.

N. 0° 2' W., on a true line, bet. secs. 3 and 4.
 Over rolling land,
 6.60 Wash, 30 lks. wide, course SW., at junction of 2 washes
 from NE. & ENE.
 31.80 Old road, brs. WNW. & ESE.
 35.00 Draw, 4 chs. wide, course WSW., asc.
 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 W., and
 S. 3 in E. half,
 raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high W. of cor.
 42.00 Spur, brs. SW. & NE., desc.
 50.00 Gulch, 50 lks. wide, course SW., asc. grad.
 78.00 Flat spur, brs. WSW. & ENE., desc. grad.
 88.85 Gulch, 80 lks. wide, course W.
 90.15 Intersect S. bdy. of T. 23 N., R. 13 W. at a point,
 whence the $\frac{1}{4}$ sec. cor. on S. bdy. sec. 34 of said Tp.,
 brs. East, 6.45 chs. dist., which is a malapis stone
 12x8x6 ins. above ground, marked and witnessed as
 described by the Surveyor General.
 At point of intersection, I
 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in
 the ground for closing cor. of secs. 3 & 4, marked on
 brass cap,
 C.C. S. of centre,
 T. 23 N., S. 33, S. 34 in N.,
 T. 22 N. in S., and
 R. 13 W. in W. half,
 S. 3 in SE., and S.
 S. 4 in SW. quadrants,
 raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high S. of cor.
 No bearings available. Pits impracticable.
 Land, rolling, broken.
 Soil, 3rd rate, gravelly, stony.
 Scattering palonegro, cacti. Fair grazing.

Feb. 8, 1911.

Chains.

Feb. 9, 1911.
 At 8h a.m., l.m.t., at the cor. of secs. 4, 5, 32 & 33,
 on the S. bdy. of the Tp.,
 I set off 14° 51' S. on the decl. arc, and 35° 15' N. on the
 lat. arc, and determine a true meridian with the solar.
 Thence I run,
 N. 0° 3' W., bet. secs. 32 & 33.
 Over mts. land, along steep E. slope, of volcanic mtn.
 35.00 Stony spur, brs. ENE. & WSW., desc. N. 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. 32 in W., and
 S. 33 in E. half,
 raise a mound of stone 2 ft. base, 1 1/2 ft. high W. of cor.
 49.30 Wash, 50 lks. wide, course ENE., foot of main slope, brs.
 NE. & SW.
 70.75 Wash, 50 lks. wide, course E.
 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. 13 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 10 ins. diam. brs. N. 12° E. 55 lks. dist.,
 marked T. 22 N., R. 13 W. S. 28 B.T.
 No other bearings available. Pits impracticable.
 Raise a mound of stone 2 ft. base, 1 1/2 ft. high W. of cor.
 Land, mts., rolling. Soil, 3rd rate, gravelly, stony.
 Scattering palonegro, cacti, few cedars. Good native grass.

S. 89° 57' E., on a random line, bet. secs. 28 & 33.
 40.00 Set temp. 1/4 sec. cor.
 79.96 Intersect. N. & S. line at point 5 lks. S. of cor. of
 secs. 27, 28, 33 & 34, whence I run,
 N. 89° 59' W., on a true line, bet. secs. 28 & 33.
 Over rolling land, drains to SE., asc. grad., through
 scattering cedar.
 36.50 Gulch, 50 lks. wide, course ESE., asc.
 39.98 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; from which,
 A cedar tree 10 ins. diam. brs. N. 13° E. 92 lks. dist.,
 marked 1/4 S. 28 B.T.
 A cedar tree 10 ins. diam. brs. S. 5° W. 109 lks. dist.,
 marked 1/4 S. 33 B.T.
 57.69 Wash, 50 lks. wide, course ESE.
 66.75 Wash, 30 lks. wide, course NNE.
 71.25 Same wash, course ENE. as at 57.69.
 75.40 Same wash, course ESE.
 79.96 To cor. of secs. 28, 29, 32 & 33.
 Land, rolling, broken., Soil, 3rd rate, sandy, gravelly.
 Scattering cedar, palonegro, cacti. Good grazing.

N. 0° 3' W., bet. secs. 28 & 29.
 Over heavily rolling, broken, land, desc. grad.
 .67 Wash, 30 lks. wide, course E.
 5.83 Wash, 30 lks. wide, course ESE.
 1911 Draw 4 chs. wide, course ESE. asc. grad.
 28.00 Knoll, brs. E. & W. desc. grad.
 36.00 Draw, 6 chs. wide, course ESE., asc. grad.
 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. 29 in W., and
 S. 28 in E. half,
 raise a mound of stone 2 ft. base, 1 1/2 ft. high W. of cor.

Chains.

66.00 Draw, 4 chs. wide, course ESE, turns SE.
 76.00 Draw, 2 chs. wide, course SE., near head, asc. grad.
 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. 13 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 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.
 Scattering palonegro, few cedar, cacti. Good native grass.

S. 89°59' E., on a random line, bet. secs. 21 & 28.
 40.00 Set temp. 1/4 sec. cor.
 80.00 Intersect. N. & S. line at a point 7 1/2 lks. S. of cor. of secs. 21, 22, 27 & 28, whence I run,
 S. 89°58' W., on a true line, bet. secs. 21 & 28.
 Over rolling land, asc. grad.
 39.00 Dim road, brs. NW. & SE. in draw 4 chs. wide, course SE.
 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. 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 1/2 ft. base, 1 1/2 ft. high N. of cor.
 80.00 To cor. of secs. 20, 21, 28 & 29.
 Land, rolling, open.
 Soil, 3rd rate, sandy, gravelly, loose, dry.
 Sparse mesquite, cacti. Good grazing.

N. 0° 3' W., bet. secs. 20 and 21.
 Over gently rolling land, drains to SE.
 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. 20 in W., and
 S. 21 in E. half,
 dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high W. of cor.
 71.50 Old 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. 16, 17, 20 & 21, marked on brass cap,
 T. 22 N., R. 13 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. 5 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, loose, dry.
 Sparse undergrowth. Good native grass.
 At this cor. at apparent noon I set off 14°49' S. on the dec. arc, and observe the sun on the meridian.
 The resulting lat. is 35°18' N.

Chains.	N. 89° 58' E., on a random line, bet. secs. 16 & 21.
40.00	Set temp. 1/4 sec. cor.
79.96	Intersect. N. & S. line at point 5 lks. N. of cor. of secs. 15, 16, 21 & 22, whence I run, West, on a true line, bet. secs. 16 & 21. Over rolling land, asc. grad.
36.00	Draw, 4 chs. wide, course NNE.
39.98	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. 16 in N., and S. 21 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.
79.96	To cor. of secs. 16, 17, 20 & 21. Land, rolling. Soil, 3rd rate, sandy, gravelly, loose, dry. Sparse undergrowth, Good native grass.
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	N. 0° 3' W., bet. secs. 16 & 17. Over gently rolling land, ascend grad.
38.00	Low flat ridge, 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. 17 in W., and S. 16 in E. half, dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high W. of cor.
48.00	Low flat spur, brs. NE. & SW., desc. grad.
74.77	Wash, 20 lks. wide, course NE.
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. 13 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. 5 1/2 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high W. of cor. Land, rolling, Soil, 3rd rate, light, sandy loam. Sparse undergrowth, cacti. Good native short grass.
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	East, on a random line, bet. secs. 9 & 16.
40.00	Set temp. 1/4 sec. cor.
80.00	Intersect. N. & S. line at point 7 lks. S. of cor. of sec. 9, 10, 15 & 16, whence I run, S. 89° 57' W., on a true line, bet. secs. 9 & 16. Over rolling land.
13.88	Wash, 10 lks. wide, course N.
15.22	Main road, brs. NNW. & SSE., asc.
30.00	Top of flat ridge, ends 15 chs. to NNE., brs. NNE. & SSW.,
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. 9 in N., and S. 16 in S. half, raise a mound of stone 2 ft. base, 1 1/2 ft. high N. of cor.
41.00	Desc.
49.00	Wash, 30 lks. wide, course NNE.
69.85	Wash, 40 lks. wide, course NE., asc. grad.
80.00	To cor. of secs. 8, 9, 16 & 17. Land, rolling. Soil, 3rd rate, sandy, gravelly, loose, dry. Scattering cacti, sage brush. Good short grass.

Chains.	N. 0° 3' W., bet. secs. 8 & 9. Over gently rolling land, desc. 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. 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.
54.75	Wash, 20 lks. wide, course NE.
63.90	Wash, 20 lks. wide, course NE.
72.80	Wash, 40 lks. wide, course NE.
78.80	Old road, 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. 13 W. in N. half, S. 5 in NW., S. 4 in NE., S. 9 in SE., and S. 8 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, dry. Sparse undergrowth? Fair grazing.
40.00	N. 89° 57' E., on a random line, bet. secs. 4 & 9. Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect. N. & S. line at cor. of secs. 3, 4, 9 & 10, whence I run, S. 89° 57' W., on a true line, bet. secs. 4 & 9. Over gently rolling valley, desc. grad.
16.53	Wash, 120 lks. wide, course WSW.
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, raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high N. of cor.
41.62	Main road, brs. NNW. & SSE.
53.00	Main wash, 200 lks. wide, in middle of valley, course N.
58.00	Wash, 20 lks. wide, course NNE., asc. grad.
75.50	Wash, 20 lks. wide, course NE., asc.
80.00	To cor. of secs. 4, 5, 8 & 9. Land, rolling, broken. Soil, 3rd rate, gravelly, dry. Sparse undergrowth, good native grass.
6.45	N. 0° 3' W., on a true line bet. secs. 4 and 5. Over rolling land, desc. grad. Wash, 20 lks. wide, course NW.
18.00	Draw, 150 lks. wide, near head, course ENE.
24.00	Draw, 200 lks. wide, " " " "
37.45	Draw, 150 lks. wide, " " " "
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 W., and S. 4 in E. half, raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high W. of cor.
57.56	Wash, 30 lks. wide, course ENE.
71.25	Wash, 20 lks. wide, course ENE.
74.55	Main wash, 150 lks. wide, course NNW.
90.20	Intersect. S. bdy. of T. 23 N., R. 13 W. at a point whence the $\frac{1}{4}$ sec. cor. on S. bdy. sec. 33 of said Tp., brs. East, 6.86 chs. dist., which is a malpais stone 10x10x6 ins. above ground, marked and witnessed as described by the Surveyor General. At pt. of intersection, Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for closing cor. of secs. 4 & 5, marked on brass cap, C.C.S. of centre, T. 23 N., S. 32, S. 33 in N., T. 22 N. in S. and R. 13 W. in W. half; S. 4 in SE., and S. 5 in SW. quadrants, raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, S. of cor. Land, rolling. Soil, 3rd rate, gravelly. Feb. 9, 1911.

Chains.

- Feb. 10, 1911.
At 8h a.m., l.m.t., at the cor. of secs. 5, 6, 31 & 32,
on the S. bdy. of the Tp.,
I set off $14^{\circ}31'$ S. on the decl. arc, and $35^{\circ}15'$ N. on the
lat. arc, and determine a true meridian with the solar.
Thence I run,
N. $0^{\circ}3'$ W., bet. secs. 31 & 32.
Over mts. land, asc. steep SW. slope.
- 30.00 Top of divide, brs. NW. & SE. butte on same is 10 chs. to
NW., thence along E. slope.
- 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,
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 42.00 Desc. NE. slope.
- 52.00 Head of gulch, course NW., turns to N., and NE. asc.
- 60.00 Same gulch, course NNE., asc.
- 66.00 Top of spur, brs. NE. & SW., desc.
- 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. 13 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 10 ins. diam. brs. S. 50° E. 30 lks. dist.,
marked T. 22 N., R. 13 W. S. 32 B.T.
No other bearings available. Pits impracticable.
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
Land, mts. Soil, 3rd rate, stony, gravelly.
Scattering cedar, palonegro, cacti. Fair grass.
-
- S. $89^{\circ}57'$ E., on a random line, bet. secs. 29 & 32.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.02 Intersect. N. & S. line at point 2 lks. S. of cor. of
secs. 28, 29, 32 & 33, whence I run,
N. $89^{\circ}58'$ W., on a true line, bet. secs. 29 & 32.
Over mts. land, asc. broken NNE. slope.
- 5.55 Wash, 80 lks. wide, course ENE.
- 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. 29 in N., and
S. 32 in S. half; from which,
A cedar tree 10 ins. diam. brs. N. 20° E. 143 lks. dist.,
marked $\frac{1}{4}$ S. 29 B.T.
A cedar tree 18 ins. diam. brs. S. 85° W. 70 lks. dist.,
marked $\frac{1}{4}$ S. 32 B.T.
- 52.50 Gulch, 50 lks. wide, course NE.
- 61.35 Gulch, 50 lks. wide, course NE.
- 80.02 To cor. of secs. 29, 30, 31 & 32.
Land, mts., broken.
Soil, 3rd rate, gravelly, dry.
Scattering cedar, palonegro. Fair grazing.

Chains.

- N. $89^{\circ}57'$ W., on a random line, bet. secs. 30 & 31.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.32 Intersect. W. bdy. of Tp. at point 5 lks. S. of cor. secs. 25, 30, 31 & 36, whence I run, S. $89^{\circ}55'$ E., on a true line, bet. secs. 30 & 31.
 Over mts. land, asc. SW. slope, through scattering cedar.
 39.32 Top of divide, brs. NW. & SE.
 Set an iron post 3 ft. long, 1 in. in diam. 10 ins. in ground on bed-rock, in mound of stone, 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 6 ins. diam. brs. N. 57° E. 34 lks. dist., marked $\frac{1}{4}$ S. 30 B.T.
 A cedar tree 6 ins. diam. brs. S. 88° E. 100. lks. dist., marked $\frac{1}{4}$ S. 31 B.T.
 41.00 Desc. NE. slope.
 60.20 Wash, 20 lks. wide, course NE., near head, asc.
 74.00 Top of flat spur, brs. NE. & SW., desc. grad.
 79.32 To cor. of secs. 29, 30, 31 & 32.
 Land, mts., broken.
 Soil, 3rd rate, gravelly, stony.
 Scattering cedar, palonegro, scrub oak, cacti. Fair grass.
-
- N. $9^{\circ}3'$ W., bet. secs. 29 & 30.
 Over heavily rolling, broken, land, desc. grad.
 12.92 Wash, 40 lks. wide, course ENE.
 22.94 Wash, 50 lks. wide, course E.
 29.70 Wash, 30 lks. wide, course ESE., 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. 30 in W., and
 S. 29 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.
 66.93 Wash, 20 lks. wide, course E.
 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. 13 W. in N. half,
 S. 19 in NW.,
 S. 20 in NE.,
 S. 29 in SE., and
 S. 30 in SW. quadrants,
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 Land, broken, rolling.
 Soil, 3rd rate, gravelly, loose, dry.
 Few cedars, palonegro. Fair grass.
-
- S. $89^{\circ}58'$ E., on a random line, bet. secs. 20 & 29.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.02 Intersect N. & S. line at point 5 lks. S. of cor. of secs. 20, 21, 28 & 29, whence I run, West, on a true line, bet. secs. 20 & 29.
 Over rolling land, asc. grad.
 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. 20 in N., and
 S. 29 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.
 78.40 Wash, 30 lks. wide, course ESE., asc.
 80.02 To cor. of secs. 19, 20, 29 & 30.
 Land, rolling.
 Soil, 3rd rate, gravelly.
 Few cedars, palonegro, cacti. Good native grass.
 At this cor. at noon, clouds obscure the sun.
 Impracticable to observe the lat.

Chains.

- N. $89^{\circ}55'$ W., on a random line, bet. secs. 19 & 30.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.22 Intersect W. bdy. of Tp. at point 12 lks. N. of cor. of
 secs. 19, 24, 25 & 30, whence I run,
 East, on a true line, bet. secs. 19 & 30.
 Over gently rolling land, desc. grad.
 .80 Wash, 50 lks. wide, course ENE.
 4.45 Same wash, course ESE.
 39.22 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 N., and
 $\frac{1}{4}$ S. 30 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.
 79.22 To cor. of secs. 19, 20, 29 & 30.
 Land, rolling.
 Soil, 3rd rate, sandy, gravelly, loose.
 Scattering palonegro, scrub oak, few cedars. Good grass.

- N. $0^{\circ}3'$ W., bet. secs. 19 & 20.
 1.50 Wash, 30 lks. wide, course ESE.
 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
 $\frac{1}{4}$ S. 20 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. 17, 18, 19 & 20, marked on
 brass cap,
 T. 22 N., R. 13 W. in N. half,
 S. 18 in NW.,
 S. 17 in NE.,
 S. 20 in SE., and
 S. 19 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, loose.
 Sparse undergrowth, Good native grass.

- East, on a random line, bet. secs. 17 & 20.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.00 Intersect N. & S. line at point 12 lks. S. of cor. of
 secs. 16, 17, 20 & 21, whence I run,
 S. $89^{\circ}55'$ W., on a true line, bet. secs. 17 & 20.
 Over gently rolling land, asc. grad.
 4.70 Old 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. 17 in N., and
 $\frac{1}{4}$ 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.
 80.00 To cor. of secs. 17, 18, 19 & 20.
 Land, rolling.
 Soil, 3rd rate, sandy, gravelly, loose, dry.
 Scattering scrub oak, cacti. Good native grass.

Chains

- West, on a random line, bet. secs. 18 & 19.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 79.12 Intersect W. bdy. of Tp. at a point 7 lks. N. of cor. of
whence I run, } secs. 13, 18, 19, 24
N. $89^{\circ}57'$ E., on a true line, bet. secs. 18 & 19.
Over gently rolling land, desc. grad.
- 21.12 Old road, brs. NNE. & SSW.
- 39.12 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,
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.
- 79.12 To cor. of secs. 17, 18, 19 & 20.
Land, rolling. Soil, 3rd rate, sandy, gravelly.
Scattering scrub oak, cacti. Good native grass.
Feb. 10, 1911.

Feb. 11, 1911.

- At 8h a.m., l.m.t., at the cor. of secs. 17, 18, 19 & 20,
I set off $14^{\circ}12'$ S. on the decl. arc, and $35^{\circ}17'$ N. on the
lat. arc, and determine a true meridian with the solar.
Thence I run,
N. $0^{\circ}3'$ W., bet. secs. 17 & 18.
Over gently rolling land,
- 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.
- 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. 13 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, sandy, gravelly.
Sparse scrub oak, cacti. Good native bunch grass.

- N. $89^{\circ}55'$ E., on a random line, bet. secs. 8 & 17.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.00 Intersect N. & S. line at point 5 lks. N. of cor. of
secs. 8, 9, 16 & 17, whence I run,
S. $89^{\circ}57'$ W., on a true line, bet. secs. 8 & 17.
Over gently rolling land, asc. grad. drains to NE.
- 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. 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.
- 50.14 Dim road, brs. NNW. & SSE.
- 59.00 Wash, 100 lks. wide, course NNE.
- 80.00 To cor. of secs. 7, 8, 17 & 18.
Land, rolling. Soil, 3rd rate, sandy, gravelly, loose., dry.
Sparse scrub oak, cacti. Good native grass.

Chains.	
40.00	S. $89^{\circ}57'$ W., on a random line, bet. secs. 7 & 18. Set temp. $\frac{1}{4}$ sec. cor.
79.10	Intersect W. bdy. of Tp. at point 5 lks. S. of cor. of secs. 7, 12, 13 & 18, whence I run,
	N. $89^{\circ}59'$ E., on a true line, bet. secs. 7 & 18. Over gently rolling land, through scattering cedar.
11.33	Dim road, brs. NE. & SW.
39.10	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, from which, A cedar tree 10 ins. diam. brs. S. 34° E. 61 lks. dist., marked $\frac{1}{4}$ S. 18 B.T. A cedar tree 6 ins. diam. brs. N. 38° E. 159 lks. dist., marked $\frac{1}{4}$ S. 7 B.T.
39.23	Dim road, brs. NNE. & SSW.
62.50	Wash, 30 lks. wide, course NE.
79.10	To cor. of secs. 7, 8, 17 & 18. Land, rolling. Soil, 3rd rate, sandy, gravelly. loose. Scattering cedar, scrub oak, cacti. Good native grass.
18.50	N. $0^{\circ}3'$ W., bet. secs. 7 & 8. Over gently rolling land, drsins to NE., desc. grad. Wash, 25 lks. wide, course NE.
24.20	Wash, 20 lks. wide, course NE.
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. 3 ft. 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. 13 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, rolling. Soil, 3rd rate, sandy, gravelly. Scattering cedar, scrub oak, palonegro. Good grass. At this cor. at apparent noon I set off $14^{\circ}10'$ S. on the decl. arc, and observe the sun on the meridian. The resulting lat. is $35^{\circ}19'$ N.
40.00	N. $89^{\circ}57'$ E., on a random line, bet. secs. 5 & 8. Set temp. $\frac{1}{4}$ sec. cor.
80.06	Intersect. N. & S. line at cor. of secs. 4, 5, 8 & 9, whence I run,
	S. $89^{\circ}57'$ W., on a true line, bet. secs. 5 & 8. Over rolling land, asc. grad., scattering scrub oak.
1.31	Old road, brs. NW. & SE.
24.85	Wash, 80 lks. wide, course NE.,
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. 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.
45.00	Enter scattering cedar, brs. N. & S.
68.00	Old road, brs. NNW. & SSE.
80.06	To cor. of secs. 5, 6, 7 & 8. Land, rolling. Soil, gravelly. Scattering cedar, scrub oak, cacti. Good grass,

Chains.

- S. 89°59' W., on a random line, bet. secs. 6 & 7.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.06 Intersect W. bdy. of Tp. at point 5 lks. N. of cor. of
 secs. 1, 6, 7 & 12, whence I run,
 N. 89°57' E., on a true line, bet. secs. 6 & 7.
 Over rolling land, desc. grad.
 18.00 Wash, 30 lks. wide, course NE.
 32.52 Dim road, brs. NNE. & SSW.
 39.06 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,
 $\frac{3}{4}$ S. 6 in N., and
 S. 7 in S. half; from which,
 A cedar tree 6 ins. diam. brs. N.3°W. 176 lks. dist.,
 marked $\frac{1}{4}$ S. 6 B.T.
 A cedar tree 12 ins. diam. brs. S.61 $\frac{1}{4}$ °W. 202 lks. dist.,
 marked $\frac{1}{4}$ S. 7 B.T.
 57.60 Wash, 30 lks. wide, course NE.
 59.90 Dim road, brs. NE. & SW.
 79.06 To cor. of secs. 5, 6, 7 & 8.
Land, rolling.
 Soil, 3rd rate, gravelly.
 Scattering cedar, scrub oak, cacti. Good native grass.
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- N. 0° 3' W., on a true line, bet. secs. 5 and 6.
 Over rolling land, desc. grad.
 12.20 Wash, 15 lks. wide, course NE.
 15.20 Dim road, brs. SE. & NW.
 25.70 Wash, 20 lks. wide, course ENE.
 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,
 $\frac{3}{4}$ 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.
 76.70 Dim road, brs. NE. & SW., in wash, 250 lks. wide, course
 NE.
 82.35 Wash, 40 lks. wide, course NE.
 89.80 Intersect S. bdy. of T. 23 N., R. 13 W. at a point
 whence the $\frac{1}{4}$ sec. cor. on S. bdy. sec. 32 of said Tp.,
 brs. East, 7.05 chs. dist., which is a malpais stone
 10x7x6 ins. above ground, marked and witnessed as
 described by the Surveyor General.
 At point of intersection, I
 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in
 the ground for closing cor. of secs. 5 & 6, marked on
 brass cap,
 C.C. on S. of centre,
 T. 23 N., S. 31, S. 32, in N.,
 T. 22 N. in S., and
 R. 13 W. in W. half,
 S. 5 in SE., and
 S. 6 in SW. quadrants,
 dig pits 24x18x12 ins., crosswise, on each line, E. & W.,
 3 ft., and S. of cor. 7 ft. dist., and
 raise a mound of earth 4 ft. base, 2 ft. high S. of cor.
 No bearings available. Pits impracticable.
 Land, rolling. Soil 3rd rate, gravelly, dry.
 Few cedars, palonegro, scrub oak, mesquite. Good grass.
 Feb. 11, 1911.
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General Description.

T. 22 N., R. 13 W. is somewhat mts. or broken in the
 NE. & SW. portions, and rolling in the SE. and NW. por-
 tions. The soil is in general loose, and dry, but would
 produce well in much of the land in the centre of the
 Tp., if irrigated. There is no water or timber in the Tp.
 There are no settlers in the Tp., which is mostly good
 grazing land.

Jesse R. Wright
 U.S. Surveyor.

91 26

APPROVAL.

BOOK 23043

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix Ariz March 25, 191*7*

The foregoing field notes of the survey of *the subdivisions of T 22 N. R 13 W.*
G. S. P., Meridian, Arizona

executed by *Jesse B. Wright* U.S. Surveyor
under his special instructions dated *Sept. 16*, 191*0*, 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.

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