

Book M BOOK 2305
2305
FIELD NOTES

123

2305

OF THE SURVEY OF THE

Subdivisional Lines of T. 19 N. R. 13 W.

2305

Of the G. and S. P. Meridian,

In the State of Territory of Arizona

EXECUTED BY

Jess 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 July 27, 1899

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Survey commenced March 1, 1911

Survey completed March 17, 1911

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For Oaths, see Book B.

BOOK 2305
INDEX DIAGRAM.

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For N, P, E, Mid W. Bldg. see
Book D, Group 10

Chains.

Survey commenced March 1, 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 established by W. O. Secor, and by him described, lat. $34^{\circ}59'40''$ N., long. $115^{\circ}37'11''$ W., I set off $7^{\circ}42'2''$ S. on the decl. arc, and $34^{\circ}59'$ 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 8h 45m 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.

March 1, 1911.

March 2, 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 .30 ins. E. of the point in the meridian as determined by the solar on preceding afternoon.

Then I set off $7^{\circ}26'$ S. on the decl. arc, and $34^{\circ}59'$ 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 the stake 5 chs. N. of my station, which point falls .30 ins. E. of the meridian point determined by observation of Polaris. The solar apparatus, by p.m. & a.m. observations, defines positions for meridians about 15° W. & E., respectively, of the true meridian determined by Polaris observations. Therefore, I conclude that my instrument is in satisfactory adjustment.

The magnetic bearing of the true meridian, at 8h a.m., is N. $15^{\circ}30'$ W.; the angle thus determined gives the magnetic declination as $15^{\circ}30'$ E.

From the cor. above described,

I run, as per instructions;

N. $0^{\circ}1'$ W., bet. secs. 35 & 36.

Over mts. rough land, along E. edge of divide. descending.

36.00 Head of canyon, course ESE., asc.

40.00 Impracticable to set iron post.

Set a granite stone 24x14x10 ins. 18 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. No bearings available. Pits impracticable.

46.00 Top of E. side of high rocky butte on divide near apex, desc. prec. NE. slope.

52.00 Head of canyon, course SE., asc. steep.

62.00 Top of dividing ridge, brs. SW. & NE., 2500 ft. above broken valley to W., desc. steep NW. slope.

Chains.

- 80.00 Impracticable to set iron post. Land too rough to be traversed by a pack animal; therefore I set a granite stone 24x15x10 ins. 18 ins. in the ground for cor. of secs. 25, 26, 35 & 36, marked with 1 notch on S. & E. edges, and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor. No bearings available. Pits, impracticable.
Land, very rough and mountainous.
Soil, 3rd & 4th rate, very stony, gravelly.
No timber.
Undergrowth, palonegro, few cacti. Good grazing.
-
- S. 89° 57' E.
on a random line, bet. secs. 25 & 36.
- 40.00 Set temp. ¼ sec. cor.
80.12 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 very rough, stony, mts. land asc.
40.06 Top of high dividing ridge, brs. N. & S.
Impracticable to set iron post, therefore, I
Set a granite stone 24x10x10 ins. 18 ins. in the ground
for ¼ sec. cor., marked ¼ on N. face, and
raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.
A high rocky peak brs. N. of cor. about 30 chs. dist.
Desc. NW. slope.
- 80.12 To cor. of secs. 25, 26, 35 & 36.
Land, rough, mountainous.
Soil, 3rd rate, stony.
Scattering palonegro, cacti. Dense scrub oak in places.
Fair native grass.
At this cor. at noon,, I set off 7° 23' S. on the
decl. arc, and observe the sun on the meridian.
The resulting lat. is 35° 0' N.
-
- N. 0° 1' W., bet. secs. 25 & 26.
Over mts. land, desc.
- 3.00 Canyon, 150 lks. wide, 150 ft. deep, course SW.
Asc. through dense scrub oak.
- 34.23 Top of long spur, brs. W. & E., desc. steep NE. slope.
- 40.00 Impracticable to set iron post.
Set a granite stone 20x10x10 ins. 15 ins. in the ground
for ¼ sec. cor., marked ¼ on W. face, and
raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
- 43.00 Head of gulch, course NW., asc.
- 55.00 Spur, brs. W. & E., desc.
- 62.00 Gulch 50 lks. wide, course NW., near head, asc.
- 73.00 Spur, brs. W. & E., desc.
- 76.00 Head of gulch, course W., asc.
- 80.00 Impracticable to set iron post.
Set a granite stone 30x14x10 ins., on bed-rock, in mound
of stone, for cor. of secs. 23, 24, 25 & 26, marked with
2 notches on S. & 1 notch on E. edges, and raise a mound
of stone 2 ft. base, 1½ ft. high W. of cor.
Soil, 3rd rate, stony. Land, very rough, and mountainous.
Scattering palonegro, cacti.
Good native grass.

Chains.

- East, on a random line, bet. secs. 24 & 25.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.10 Intersect E. bdy. of Tp. at point 5 lks. N. of cor. of secs. 19, 24, 25 & 30, whence I run, N. $89^{\circ}58'$ W., on a true line, bet. secs. 24 & 25. Over mts. land, desc. steep W. slope.
- 5.00 Canyon, 150 lks. wide, course SSE., asc. very broken ESE. slope.
- 30.00 Gulch, 50 lks. wide, course NE., near head.
- 40.05 Impracticable to set iron post. Set a granite stone $24 \times 10 \times 8$ ins. 18 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor. No bearings available. Pits impracticable.
- 71.00 Top of high rocky ridge, brs. S. & N., Elev. 4800 ft. above sea-level. desc. prec. W. slope.
- 80.10 To cor. of secs. 23, 24, 25 & 26. Land, rough, mountainous. Soil, 3rd rate, stony, gravelly. Scattering palonegro, cacti, scrub oak. Good grazing. March 2, 1911.
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- March 3, 1911.
- At 8h a.m., l.m.t., at the cor. of secs. 23, 24, 25 & 26, I set off $7^{\circ}3'$ S. on the decl. arc, and $35^{\circ}1'$ N. on the lat. arc, and determine a true meridian with the solar. Thence I run, N. $0^{\circ}1'$ W., bet. secs. 23 & 24. Over very rough mts. land, along steep, broken W. slope. descending.
- 4.00 Gulch, 50 lks. wide, course W., near head, asc. steep.
- 9.00 Top of long ridge, brs. WNW. & ESE., desc. through dense scrub oak.
- 35.00 Gulch 50 lks. wide, course WNW., near head, asc. grad.
- 40.00 Impracticable to set iron post. Mark cross(x) on porphyry ledge $2 \times 2 \times 1$ ft. above ground, with $\frac{1}{4}$ on W. of cross, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Thence along steep, broken W. slope. descending.
- 64.40 Gulch 50 lks. wide, course WNW. near head.
- 79.80 Gulch 30 lks. wide, course W., asc.
- 80.00 Impracticable to set iron post. Set a granite stone $24 \times 14 \times 10$ ins. 18 ins. in the ground for cor. of secs. 13, 14, 23 & 24, marked with 3 notches on S. & 1 notch on E. edges, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. No bearings available. Pits impracticable. Land, rough, mountainous. Soil, 3rd rate, stony, gravelly. Palonegro, , cacti. greasewood, scrub oak. Fair grass.
-
- S. $89^{\circ}58'$ E., 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 5 lks. N. of cor. of secs. 13, 18, 19 & 24, whence I run, N. $89^{\circ}56'$ W., on a true line, bet. secs. 13 & 24. Over mts. rough, stony land, desc. SW. slope.
- 4.00 Head of gulch, course SSW., asc. prec.
- 11.00 Top of high rocky divide, brs. SW. & N.E., desc. prec.
- 38.50 Gulch 40 lks. wide, course WNW., near head, desc. grad.
- 40.00 Impracticable to set iron post. Set a granite stone $24 \times 14 \times 10$ ins. 18 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 49.00 Enter same gulch as above, thence down meanderings of gulch, many small turns NW. & SW.
- 79.80 Same gulch, course SW.
- 80.00 To cor. of secs. 13, 14, 23 & 24. Land, mts. very rough. Soil, 4th rate, stony. Palonegro, scrub oak, and other brush, Sparse grass.

Chains.

N. 0° 1' W., bet. secs. 13 & 14.
 Over mts. land, along broken W. slope., asc.
 5.00 Knoll, brs. W. & E., desc. grad.
 27.15 Wash, 50 lks. wide, course WNW., asc.
 30.00 Point of flat spur, brs. W. & E., desc.
 35.00 Gulch 30 lks. wide, course W., runs into box canyon at
 20 chs. to W. asc.
 39.00 Low spur, brs. SW. & NE., desc. grad.
 40.00 Set a granite stone 24x12x10 ins. 18 ins. in the ground
 for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound
 of stone 2 ft. base, 1 1/2 ft. high W. of cor.
 Impracticable to set iron post.
 48.00 Low broad gap in ridge, brs. WNW. & ESE.
 A high rocky butte brs. NW. 20 chs. dist. desc.
 64.70 Wash, 80 lks. wide, course WNW., asc.
 71.00 Flat spur, pt. brs. WNW. & ESE., desc.
 74.45 Wash, 30 lks. wide, course NW., asc. steep.
 80.00 Set a granite stone 24x15x10 ins. 18 ins. in the ground
 for cor. of secs. 11, 12, 13 & 14, marked with 4 notches
 on S. & 1 notch on E. edges, and raise a mound of stone
 2 ft. base, 1 1/2 ft. high W. of cor. No bearings available.
 Impracticable to set iron post.
 Land, mts., broken.
 Soil, 3rd rate, gravelly.
 Palonegro, cacti, scrub oak, few cedar. Grass fair.

S. 89° 56' E., on a random line, bet. secs. 12 & 13.
 40.00 Set temp. 1/4 sec. cor.
 80.08 Intersect E. bdy. of Tp. at point 7 lks. S. of cor. of
 secs. 7, 12, 13 & 18, whence I run,
 N. 89° 59' W., on a true line, bet. secs. 12 & 13.
 Over mts. land, desc. along N. side of long ridge.
 35.00 Cross spur, desc. along SSW. slope of same.
 40.04 Set a granite stone 24x12x10 ins. 18 ins. in the ground
 for 1/4 sec. cor., marked 1/4 on N. face, and
 raise a mound of stone 2 ft. base, 1 1/2 ft. high N. of cor.
 Impracticable to set iron post.
 From cor., desc. on spur, main ridge.
 76.00 Desc. SW. point from main spur.
 80.08 To cor. of secs. 11, 12, 13 & 14.
 Land, mts.
 Soil, 3rd rate, stony, gravelly.
 Palonegro, few cedars, scrub oak, cacti.
 Sparse grass.

March 3, 1911.

Chains.

March 4, 1911.

At 8h a.m., l.m.t., at the cor. of secs. 11, 12, 13 & 14, I set off 6°40' S. on the decl. arc, and 35°3' N. on the lat. arc, and determine a true meridian with the solar. Thence I run,

N. 0° 1' W., bet. secs. 11 & 12.

- Over broken W. slope, through dense palonegro, 22.60 Gulch, 150 lks. wide, course WNW. asc.
 31.30 Spur, brs. W. & E., desc.
 37.25 Gulch, 50 lks. wide, course W., asc. grad.
 40.00 Impracticable to set iron post.
 Set a granite stone 24x10x10 ins. 18 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 42.30 Gulch, 50 lks. wide, course W., asc. steep.
 46.50 Spur, brs. W. & E., desc.
 53.40 Wash, 50 lks. wide, course W., near head.
 60.50 Spur, brs. W. & E., desc.
 65.00 Gulch, 50 lks. wide, course WSW., near head. asc. steep.
 69.00 Sharp spur, brs. W. & E., desc. steep.
 78.00 Wash, 120 lks. wide, course W. asc.
 80.00 Impracticable to set iron post.
 Set a granite stone 20x12x8 ins. 15 ins. in the ground for cor. of secs. 1, 2, 11 & 12., marked with 5 notches on S. & 1 notch on E. edges, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Ne bearings available.
 Land, mts.
 Soil, 3rd rate, stony, gravelly.
 Palonegro, scrub oak, cacti. Fair grazing.

S. 89°59' E., on a random line, bet. secs. 1 & 12.

- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.10 Intersect W. bdy. of Tp. at point $2\frac{1}{2}$ lks. S. of cor. of secs. 1, 6, 7 & 12, whence I run, West, on a true line, bet. secs. 1 & 12.
 Over mts., stony land, desc. along S. side of ridge.
 35.00 Spur, from ridge, brs. SW. & NE., ridge, turns WNW., desc.
 40.05 Impracticable to set iron post.
 Set a granite stone 24x10x10 ins. 18 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
 49.60 Gulch, 120 lks. wide, course WNW.
 64.20 Same gulch, course WSW.
 80.10 To cor. of secs. 1, 2, 11 & 12.
 Land, mts. Soil, 3rd rate, stony.
 Scattering palonegro, scrub oak, sparse grass.
 At this cor. at noon, l.m.t., clouds obscure the sun.
 Impracticable to observe the latitude.

N. 0° 1' W., on a random line, bet. secs. 1 & 2.

- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.90 Intersect N. bdy. of Tp. at point 2 lks. W. of cor. of secs. 1, 2, 35 & 36, whence I run, South, on a true line, bet. secs. 1 & 2.
 Over mts. land, desc. steep.
 23.00 Bee Canyon, 300 lks. wide, 200 ft. deep, course W., asc. prec.
 39.90 Impracticable to set iron post.
 Set a granite stone 24x10x8 ins. 18 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 41.00 Top of long ridge, brs. W. & E., desc.
 50.00 Gulch, 50 lks. wide, course SW., near head. asc.
 55.00 Point of spur, brs. SW. & NE. desc.
 60.00 Gulch, 120 lks. wide, course W., asc. steep N. slope.
 68.90 Top of long ridge, brs. W. & E., desc.
 79.90 To cor. of secs. 1, 2, 11 & 12.
 Land, mts., rough. Soil, 3rd rate, stony, gravelly.
 Palonegro, cacti. sparse grass. March 4, 1911.

C chains.

- March 6, 1911.
 At 8h a.m., l.m.t., at the cor. of secs. 2, 3, 34 & 35,
 on the S. bdy. of the Tp., as established by W. O. Secor,
 and by him described,
 I set off $5^{\circ}54'$ S. on the decl. arc, and $34^{\circ}59'$ 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 mts. land, along prec. NW. slope.
- 11.00 Canyon, 300 lks. wide, course W., asc. steep S. slope.
 39.00 Top of ridge, brs. WNW. & ESE., desc.
 40.00 Impracticable to set iron post.
 Set a granite stone $24 \times 12 \times 8$ ins. 18 ins. in the ground
 for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 52.00 Gulch, 200 lks. wide, 300 ft. deep, course WNW., asc.
 steep SW. slope.
 80.00 Impracticable to set iron post .
 Set a granite stone $20 \times 10 \times 10$ ins. 15 ins. in the ground
 for cor. of secs. 26, 27, 34 & 35, marked with 1 notch on
 S. & 2 notches on E. edges, and raise a mound of stone
 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. No bearings available.
 Land, mts., broken.
 Soil, 3rd rate, stony.
 Scattering palonegro, cacti. Sparse grass.
-
- S. $89^{\circ}57'$ E., on a random line, bet. secs. 26 & 35.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.90 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 mts. land, through scattering scrub oak.
 .60 Canyon 80 lks. wide, course SW., thence along broken
 SSW. slope.
 36.90 Canyon 80 lks. wide, course SSW., near head, asc. steep
 SE. slope.
 39.95 Impracticable to set iron post.
 Set a granite stone $24 \times 16 \times 8$ ins. 18 ins. in the ground
 for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
 50.24 Asc. prec. SE. slope.
 78.88 Top of steep ascent. Top of high rocky peak is 20 lks. S.
 Desc. prec. NW. slope.
 79.90 To cor. of secs. 26, 27, 34 & 35.
 Land, mts., very rough, last $\frac{1}{2}$ mile.
 Soil, 3rd rate, stony.
 Scattering plaonegro, scrub oak, cacti. Sparse grass.
 At this cor. at noon, l.m.t., I set off $5^{\circ}51'$ S. on the
 decl. arc, and observe the sun on the meridian.
 The resulting lat. is $35^{\circ}0'$ N.
-
- N. $0^{\circ}1'$ W., bet. secs. 26 & 27.
 Over mts. land, desc. prec. NW. slope.
- 16.00 Foot of prec. descent. thence desc. WNW. slope of mtn.
 40.00 Impracticable to set iron post.
 Set a granite stone $24 \times 16 \times 10$ ins. 18 ins. in the ground
 for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 Asc. from cor., SW. slope.
 52.00 Top of W. slope, Top of butte brs. E. 12 chs. dist.,
 desc. NW. slope.
 80.00 Impracticable to set iron post.
 Set a white quartz stone $30 \times 12 \times 6$ ins. 24 ins. in the
 ground for cor. of secs. 22, 23, 26 & 27, marked with 2
 notches on S. & E. edges, and raise a mound of stone, 2
 ft. base, $1\frac{1}{2}$ ft. high W. of cor. No bearings available.
 Land, mts., very rough. Soil, 3rd rate, stony.
 Sparse vegetation.

Chains

- S. 89°59' E., on a random line, bet. secs. 23 & 26.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.92 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 mts. land, desc. steep stony W. slope.
 10.00 Gulch, 80 lks. wide, course NW., asc.
 36.75 Top of sharp, high ridge, brs. NW. & SE., desc. steep,
 SW. slope. of mts.
 39.96 Impracticable to set iron post.
 Set a granite stone 24x12x8 ins. 18 ins. in the ground
 for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound
 of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
 58.50 Canyon, 80 lks. wide, course WNW. asc. along N. slope.
 63.10 Spur, brs. N. & S., desc.
 72.00 Canyon, same as above, in turn, course SW. to NW., asc.
 73.00 Top of ascent., thence along N. slope.
 79.92 To cor. of secs. 22, 23, 26 & 27.
 Land, mts. very rough.
 Soil, 3rd rate, stony.
 Palonegro, cacti, sparse grass. March 6, 1911.

March 7, 1911.

- At 8h a.m., l.m.t., at the cor. of secs. 22, 23, 26 & 27,
 I set off 5°31' S. on the decl. arc, and 35°1' N. on the
 lat. arc, and determine a true meridian with the solar.
 Thence I run,
 N. 0° 1' W., bet. secs. 22 & 23.
 Over mts. land, desc.
 2.00 Desc. prec. bluff, into gulch.
 3.50 Gulch, 150 lks. wide, 200 ft. deep, course WNW., asc.
 prec.
 5.00 Top of bluff, brs. WNW. & ESE.
 Thence over rough, stony W. slope of mts.
 40.00 Impracticable to set iron post.
 Set a granite stone 20x10x8 ins. 15 ins. in the ground
 for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound
 of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 65.00 Desc. grad. NW. slope, near foot of main slope.
 80.00 Impracticable to set iron post.
 Set a granite stone 24x14x12 ins. 18 ins. in the ground
 for cor. of secs. 14, 15, 22 & 23, marked with 3 notches
 on S. & 2 notches on E. edges, and raise a mound of stone
 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. No bearings available.
 Land, mts., broken.
 Soil, 3rd rate, stony.
 Palonegro, cacti, some scrub oak. Sparse grass.

- S. 89°59' E., on a random line, bet. secs. 14 & 23.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.90 Intersect N. & S. line at point 5 lks. N. of cor. of
 secs. 13, 14, 23 & 24, whence I run,
 N. 89°57' W., on a true line, bet. secs. 14 & 23.
 Over mts. land, desc.
 .80 Gulch, 80 lks. wide, course NW.
 1.40 Same gulch, course SW.
 3.20 Same gulch, course NW. leave gulch and asc.
 10.00 Small spur, brs. NW. & SE., near point, desc.
 16.00 Gulch, 30 lks. wide, course NNW.
 23.00 Spur, brs. NW. & SE.
 27.80 Canyon, 150 lks. wide, 150 ft. deep, course NNW., asc.
 prec. E. slope.
 39.95 Set a granite stone 24x14x10 ins. 18 ins. in the ground
 for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound
 of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
 Impracticable to set iron post.
 45.80 Top of high rocky ridge, brs. NNW. & SSE., desc. prec.
 NW. slope.

chains.

79.90 To cor. of secs. 14, 15, 22 & 23.
 Land, mts., very rough, stony, and broken.
 Soil, 3rd & 4th rate, stony.
 Palonegro, scrub oak, few cedars. Sparse grass.
 At this cor. at noon, I set off $5^{\circ} 27\frac{1}{2}'$ S. on the
 decl. arc, and observe the sun on the meridian.
 The resulting lat. is $35^{\circ} 1\frac{1}{2}'$ N.

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

Over mts. land, desc. grad.

24.50 Mouth of box canyon, 300 lks. wide, course W.

28.00 Asc. steep.

40.00 Impracticable to set iron post.

Set a granite stone $24 \times 12 \times 12$ ins. 18 ins. in the ground
 for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound
 of stone 2 ft. base; $1\frac{1}{2}$ ft. high W. of cor.

47.90 Top of high ridge, brs. WSW. & ENE., desc. along steep
 stony NW. slope.

61.50 Desc. steep. N. slope.

72.00 Gulch, 150 lks. wide, 300 ft. deep, course W., asc. prec.

76.20 Top of sharp rocky ridge, brs. W. & E., desc.

80.00 Impracticable to set iron post.

Set a granite stone $24 \times 10 \times 7$ ins. 18 ins. in the ground
 for cor. of secs. 10, 11, 14 & 15, marked with 4 notches on
 S. & 2 notches on E. edges, and raise a mound of stone. 2
 ft. base, $1\frac{1}{2}$ ft. high W. of cor. No bearings available.

Land, very rough, stony and mountainous.

Soil, 3rd rate, stony.

Scattering palonegro, cacti. Sparse grass.

S. $89^{\circ} 57'$ E., on a random line, bet. secs. 11 & 14.

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

79.88 Intersect N. & S. line at point 5 lks. N. of cor. of
 secs. 11, 12, 13 & 14, whence I run,

N. $89^{\circ} 55'$ W., on a true line, bet. secs. 11 & 14.

Over mts. land, desc.

6.00 Gulch, 80 lks. wide, course NW.

Asc. broken, stony NE. slope. of ridge, through dense
 palonegro, and other brush.

39.94 Impracticable to set iron post.

Set a granite stone $19 \times 14 \times 7$ ins. 13 ins. in the ground
 for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound
 of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.

46.50 Top of high rocky ridge, brs. NNW. & SSE., desc.

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

Land, mts., rough.

Soil, 3rd rate, stony.

Palonegro, scrub oak, cacti, and other brush. Sparse grass.

March 7, 1911.

Chains.

March 8, 1911.

At 8h a.m., l.m.t., at the cor. of secs. 10, 11, 14 & 15,
I set off $5^{\circ}7\frac{1}{2}'$ S. on the decl. arc, and $35^{\circ}2\frac{1}{2}'$ N. on the
lat. arc, and determine a true meridian with the solar.

Thence I run,

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

Over mts. land, desc. prec. N. slope.

Through dense palonegro, and other brush.

- 1.00 Gulch, 80 lks. wide, course NW. near head, asc. steep.
8.00 Rocky ridge, brs. NW. & SE., desc.
15.40 Desc. steep.
22.70 Canyon, 80 lks. wide, 100 ft. deep, course WNW., asc. prec.
30.00 Sharp rocky ridge, brs. NW. & SE., near point, desc. steep.
35.00 Desc. prec.
38.00 Canyon 250 lks. wide, 200 ft. deep, course W., asc. prec.
40.00 Impracticable to set iron post.
Set a granite stone 18x12x6 ins., 12 ins. in the ground
for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
49.90 Ridge, brs. SW. & NE., desc. steep NW. slope.
61.00 Gulch, 50 lks. wide, course WSW., asc.
75.90 Top of flat ridge, brs. WSW. & ENE.
80.00 Impracticable to set iron post.
Set a granite stone 20x14x8 ins. 15 ins. in the ground
for cor. of secs. 2, 3, 10 & 11, marked with 5 notches on
S. & 2 notches on E. edges, and raise a mound of stone
2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. No bearings available.
Land, very rough, and broken, mts.
Soil, 3rd rate, stony.
Palonegro, cacti, and other brush. Sparse grass.

S. $89^{\circ}55'$ E., on a random line, bet. secs. 2 & 11.

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

79.80 Intersect N. & S. line at cor. of secs. 1, 2, 11 & 12,
whence I run,

N. $89^{\circ}55'$ W., on a true line, bet. secs. 2 & 11.

Over mts. land, along S. slope, descending.

- 7.35 Wash, 80 lks. wide, course WNW.
14.45 Wash, same as above, course WSW. asc.
34.00 Flat spur, from ridge, brs. SW. & NE., desc.
39.90 Impracticable to set iron post.

Set a granite stone 24x14 x10 ins. 18 ins. in the ground
for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound
of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.

55.00 Gulch 30 lks. wide, course SW., near head, asc. grad.
along SSE. slope.

79.80 To cor. of secs. 2, 3, 10 & 11.

Land, mts. Soil, 3rd rate, gravelly, stony.

Scattering palonegro, cacti. Sparse grass.

At this cor. at noon, I set off $5^{\circ}4\frac{1}{2}'$ S. on the
decl. arc, and observe the sun on the meridian.

The resulting lat. is $35^{\circ}3'$ N.

N. $0^{\circ}1'$ W., on a random line, bet. secs. 2 & 3.

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

79.70 Intersect cor. of secs. 2, 3, 34 & 35 on N. bdy. of Tp.,
whence I run,

S. $0^{\circ}1'$ E., on a true line, bet. secs. 2 & 3.

Over rough mts. land, desc. through palonegro & scrub oak.

- 4.70 Wild Bee Canyon, 4 chs. wide, 300 ft. deep, course WNW., asc.
19.70 Top of ridg, brs. WNW. & ESE., desc.
31.70 Wash, 20 lks. wide, course NW., asc.
39.70 Top of flat ridge, brs. WNW. & ESE. Impracticable to set iron
post.

Set a granite stone 20x16x8 ins. 15 ins. in the ground
for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.

Chains.

43.45 Desc.
 47.70 Gulch 50 lks. wide, course NW., asc.
 50.44 Ridge, brs. NW. & SE., desc.
 67.70 Gulch, 30 lks. wide, course WSW., asc.
 79.70 To cor. of secs. 2, 3, 10 & 11.
 Land, mts.
 Soil, 3rd rate, gravelly, stony.
 Palonegro, scrub oak, cacti. Sparse grass.
 March 8, 1911.

March 9, 1911.

At 8h a.m., l.m.t.; at the cor. of secs. 3, 4, 33 & 34, on the S. bdy. of Tp., as established by W.O. Secor, and by him described, I set off $4^{\circ}44'$ S. on the decl. arc, and $34^{\circ}59'$ N. on the lat. arc, and determine a true meridian with the solar., Thence I run,

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

Over valley of Sandy River wash, through dense mesquite tesseta, and other brush. asc.

7.00 Foot of bank of gulch brs. E. & W., asc. steep.
 7.20 Top of point 15 ft. high, brs. W. & E., desc.
 14.10 Desc. steep bank, into Sandy wash.
 15.00 Foot of bank of Sandy River wash, brs. SSW. & NNE., thence in wash of Little Sandy River.
 35.00 Leave wash, course SSE. asc. slightly.
 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, raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 48.51 Foot of main slope of mts., asc. SW. slope.
 58.00 Top of rise, thence along WNW. slope, desc. grad.
 70.00 Mouth of canyon, 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. 27, 28, 33 & 34, marked on brass cap,
 T. 19 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,
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 Land, rolling, mts.
 Soil, 2nd & 3rd rate, sandy, gravelly.
 Mesquite, tesseta, willow, cacti, and other brush.

S. $89^{\circ}57'$ E., on a random line, bet. secs. 27 & 34.

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

79.92 Intersect N. & S. line at point 5 lks. S. of cor. of secs. 26, 27, 34 & 35, whence I run,

N. $89^{\circ}59'$ W., on a true line, bet. secs. 27 & 34.

Over mts. land, desc. steep WNW. slope.

39.00 Desc. prec. NW. slope, through dense brush.

39.96 Impracticable to set iron post.

Set a granite stone $24 \times 18 \times 10$ ins. 18 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.

48.00 Canyon, 150 lks. wide, 100 ft. deep, course SW., asc.

68.29 Top of peak, brs. WSW. & ENE., desc.

79.92 To cor. of secs. 27, 28, 33 & 34.

Land, rough and mts.

Soil, 3rd rate, stony.

Palonegro, scrub oak, cacti. Sparse grass.

At this cor. at noon, I set off $4^{\circ}41'$ S. on the decl. arc, and observe the sun on the meridian.

The resulting lat. is $35^{\circ}0'$ N.

Chains.

N. 0° 2' W., bet. secs. 27 & 28.
 Over mts. land, ascending along W. slope. near foot.
 16.73 Top of rise, desc. to gulch, 100 ft. deep.
 19.00 Gulch, 50 lks. wide, course W., asc.
 30.00 W. point of spur from mts., brs. W. & E., desc.
 38.84 Desc. abruptly.
 40.00 Impracticable to set iron post.
 Set a granite stone 24x10x10 ins. 18 ins. in the ground
 for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of
 stone 2 ft. base, 1 1/2 ft. high W. of cor.
 43.00 Canyon, 150 lks. wide, 300 ft. deep, course W., asc.
 71.70 Top of sharp spur from mts., brs. W. & E., desc.
 steep into gulch 300 ft. deep.
 78.00 Gulch, 150 lks. wide, , mouth of same is 8 chs. W.
 where it joins Little Sandy.
 80.00 Impracticable to set iron post.
 Set a granite stone 24x14x8 ins. 18 ins. in the ground
 for cor. of secs. 21, 22, 27 & 28, marked with 2 notches on
 S. & 3 notches on E. edges, and raise a mound of
 stone 2 ft. base, 1 1/2 ft. high W. of cor. No bearings avail.
 Land, mts., broken, rolling.
 Soil, 3rd rate, gravelly.
 Mesquite, tesseta, greasewood, willow, cacti. Sparse grass.

S. 89° 59' E., on a random line, bet. secs. 22 & 27.
 40.00 Set temp. 1/4 sec. cor.
 79.90 Intersect N. & S. line at point 2 1/2 lks. S. of cor. of
 secs. 22, 23, 26 & 27, whence I run,
 West, on a true line, bet. secs. 22 & 27.
 Over mts. land, along steep N. slope.
 18.00 Desc. prec.
 20.00 Gulch 30 lks. wide, course N., near head, asc.
 29.34 Spur, brs. NW. & SE., desc. prec. W. slope.
 39.85 Impracticable to set iron post.
 Set a granite stone 24x14x10 ins. 18 ins. in the ground
 for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound
 of stone 2 ft. base, 1 1/2 ft. high N. of cor.
 Cor. on spur, brs. NW. & SE., continue to descend.
 61.00 Gulch, 50 lks. wide, course WSW., near head. thence along
 N. side of canyon. prec. S. slope.
 79.90 To cor. of secs. 21, 22, 27 & 28.
 Land, mts.,
 Soil, 3rd rate, stony.
 Palonegro, mesquite, tesseta, greasewood, cacti.
 Sparse grass.

March 9, 1911.

Chains.

- March 10, 1911.
 At 8h a.m., l.m.t., at the cor. of secs. 21, 22, 27 & 28,
 I set off $4^{\circ}20\frac{1}{2}'$ S. on the decl. arc, and $35^{\circ}1'$ N. on the
 lat. arc, and determine a true meridian with the solar.
 Thence I run,
 N. $0^{\circ}2'$ W., bet. secs. 21 & 22.
 Asc. grad. in valley of Little Sandy River, through
 dense mesquite, tesselata, willow and other brush.
- 8.00 Wash, 50 lks. wide, course SW., asc.
 25.00 Top of spur from mts., brs. SW. & NE., desc.
 28.00 Foot, and enter main valley, brs. SW. & NE.
 32.80 Road, brs. NE. & SW.
 As point for $\frac{1}{4}$ sec. cor. will fall in wash, at
 33.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
 the ground for witness cor. to $\frac{1}{4}$ sec. cor.,
 marked on brass cap,
 WC. $\frac{1}{4}$ S. of centre.
 S. 21 in SW., and
 S. 22 in SE. quadrants,
 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.
- 33.40 Enter wash of Little Sandy, course SSW., (dry).
 40.00 Point for $\frac{1}{4}$ sec. cor. in wash.
 64.00 Leave main wash, course SSE and NNW.
 W. edge of wash and foot of high rocky mtn. is 4 chs. W.
 Road and E. edge of valley is 5 chs. to E., brs. N. & S.
- 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. 19 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,
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 Land, rolling, broken,
 Soil, 2nd & 3rd rate, sandy, gravelly.
 Mesquite, tesselata, greasewood, willow, and other brush.
 Grass sparse.
-
- East, on a random line, bet. secs. 15 & 22.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.96 Intersect N. & S. line at point 7 lks. N. of cor. of
 secs. 14, 15, 22 & 23, whence I run,
 N. $89^{\circ}57'$ W., on a true line, bet. secs. 15 & 22.
 Over broken, rolling land, desc. grad. very stony ground.
- 23.00 Enter wash, 280 lks. wide, course WSW.
 33.00 Leave wash, course WSW., asc.
 39.98 Impracticable to set iron post,
 Set a granite stone 24x12x8 ins. 18 ins. in the ground for
 $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of
 stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
- 43.00 Wash, 30 lks. wide, course WSW., asc.
 63.00 Top of point, brs. WSW. & ENE., desc.
 73.35 Road, foot of main slope, brs. NNW. & SSE.
 79.96 To cor. of secs. 15, 16, 21 & 22.
 Land, mts., rolling.
 Soil, 3rd rate, stony.
 Palonegro, greasewood, and other brush. Sparse grass.
 At this cor. at noon, I set off $4^{\circ}17\frac{1}{2}'$ S. on the
 decl. arc, and observe the sun on the meridian.
 The resulting lat. is $35^{\circ}2'$ N.

Chains.

- N. $0^{\circ} 2'$ W., bet. secs. 15 & 16.
Asc. grad. in valley of Little Sandy wash, through dense mesquite, tesseta, willow and other brush.
- 11.40 Road, brs. NNW. & SSE.
- 19.00 House of A.B.Fancher, brs. W. 9.50 chs.dist., called the Windmill Ranch . consisting of House corral, windmill, etc.
- 26.00 Leave dense brush, 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. 16 in W., and S. 15 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.
- 65.50 Draw, 300 lks. wide, course W.
- 67.30 Leave valley, brs. NW. & SE., asc.
- 73.76 Top of spur, brs. SW. & NE., desc.
- 77.00 Gulch, 50 lks. wide, course SW., near head, asc.
- 80.00 Top of low narrow ridge, brs. NE. & SW.
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. 19 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,
raise a mound of stone 2 ft.base, 1 $\frac{1}{2}$ ft.high W. of cor.
Land, rolling, mts.
Soil, sandy, gravelly, 2nd & 3rd rate.
Mesquite, willow, tesseta, greasewood, cacti. Sparse grass.

- S. $89^{\circ} 57'$ E., on a random line, bet. secs. 10 & 15.
Set temp. $\frac{1}{4}$ sec. cor.
- 40.00
80.02 Intersect N. & S. line at point 5 lks. N. of cor. of secs. 10,11,14 & 15, whence I run,
N. $89^{\circ} 55'$ W., on a true line, bet. secs. 10 & 15.
Over mts. land, asc. through dense brush.
- 10.75 Ridge, brs. WNW. & ESE., desc.grad.
- 31.40 Desc. steep NW. slope.
- 35.00 Gulch 30 lks. wide, course WNW. ,asc.
- 40.01 Impracticable to set iron post.
Set a granite stone 24x12x6 ins. 18 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high N. of cor.
- 52.00 Gulch, 40 lks. wide, course S. 60° W.
asc.
- 68.00 Top of flst spur, brs. SW. & NE., desc.
- 76.00 Small gulch, 20 lks. wide, course SW., asc.
- 80.02 To cor. of secs. 9,10,15 & 16.
Land, mts., broken.
Soil, 3rd rate, stony.
Scattering mesquite, tesseta, cacti, and other brush.
March 10, 1911.

March 11, 1911.

- At 8h a.m., 1.m.t., at the cor. of secs. 9,10,15 & 16,
I set off $3^{\circ} 57'$ S. on the decl. arc, and $35^{\circ} 3'$ N. on the lat. arc, and determine a true meridian with the solar.
Thence I run,
N. $0^{\circ} 2'$ W., bet. secs. 9 & 10.
Over mts. land, over rough points of foot hills, through dense mesquite and other brush. desc.
- 10.75 Wash, 50 lks. wide, course W.
- 27.00 Wash, 50 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. 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.

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Chains.
 48.00 Wash, 50 lks. wide, course WSW.
 61.00 Asc. steep SE. slope of ridge.
 70.00 Ridge, brs. SW. & NE., desc. NW. slope.
 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. 19 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 2 ft. base, 1 1/2 ft. high W. of cor.
 Land, mts., broken.
 Soil, 3rd rate, gravelly.
 Mesquite, tesseta, greasewood, cacti. Sparse grass.

S. 89° 55' E., on a random line, bet. secs. 3 & 10.
 40.00 Set temp. 1/4 sec. cor.
 80.04 Intersect N. & S. line at point 7 lks. N. of cor. of secs. 2, 3, 10 & 11, whence I run,
 N. 89° 52' W., on a true line, bet. secs. 3 & 10 .
 Over mts. land, asc.
 3.00 Top of ridge, brs. NNE. & SSW., desc. stony NW. slope.
 22.00 Gulch 50 lks. wide, course WSW., asc. grad.
 40.02 Impracticable to set iron post.
 Set a granite stone 22x10x10 ins. 17 ins. in the ground for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone 3 ft. base, 2 ft. high N. of cor.
 64.00 Asc. SE. slope.
 62.00 Flat ridge, brs. WSW. & ENE., desc.
 80.04 To cor. of secs. 3, 4, 9 & 10.
 Land, mts., broken.
 Soil, 3rd rate, stony.
 Palonegro; mesquite, and other brush. Sparse grass.

N. 0° 2' W. on a random line, bet. secs. 3 & 4.
 40.00 Set temp. 1/4 sec. cor.
 79.58 Intersect N. bdy. of Tp. at cor. of secs. 3, 4, 33 & 34; whence I run,
 S. 0° 2' E., on a true line, bet. secs. 3 & 4.
 Over broken hilly land, asc.
 7.08 Top of rise, brs. SE. & NW., desc.
 10.58 Enter valley of Little Sandy, brs. NE. & SW., thence through dense greasewood, mesquite, tesseta.
 36.68 Road, brs. NNE. & SSW.
 As point for 1/4 sec. cor. will fal in wash, at
 37.58 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for witness cor. to 1/4 sec. cor., marked on brass cap,
 WC. 1/4 in N. half,
 S. 3 in NE., and
 S. 4 in NW. quadrants,
 raise a mound of stone 2 ft. base, 1 1/2 ft. high W. of cor.
 38.58 Enter wash of Little Sandy, course SSW.
 39.58 Cor. point for 1/4 sec. cor. in wash.
 42.18 Leave wash, course SSW.
 44.78 Road, brs. NW. & SE.
 70.43 Road, brs. N. 25° E. & S. 25° W. and wash, course SW.
 75.58 Leave valley and dense greasewood, and asc.
 79.58 To cor. of secs. 3, 4, 9 & 10.
 Land, broken, rolling.
 Soil, 3rd rate, gravelly, sandy.
 Mesquite, greasewood, tesseta, cacti. Sparse grass.

March 11, 1911.

Chains.

March 13, 1911.

At 8h a.m., l.m.t., at the cor. of secs. 4, 5, 32 & 33, on the S. bdy. of Tp. as established by W. O. Secor, and by him described,

I set off $3^{\circ}10'S$ on the decl. arc, and $34^{\circ}59'N$ on the lat. arc, and determine a true meridian with the solar.

Thence I run,

N. $0^{\circ}3'W$, bet. secs. 32 & 33.

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. 32 in W., and S. 33 in E. half,

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

66.00 Enter wash, course E.

79.30 Leave wash, course E., asc.

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. 19 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,

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

Land, broken, rolling.

Soil, 2nd & 3rd, rate, sandy, gravelly.

Scattering greasewood, mesquite, cacti. Good native grass.

S. $89^{\circ}57'E$, on a random line, bet. secs. 28 & 33.

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

80.00 Intersect N. & S. line at point 2 lks. S. of cor. of secs. 27, 28, 33 & 34, whence I run,

N. $89^{\circ}58'W$, on a true line, bet. secs. 28 & 33.

Over stony sandy broken rolling, land, through dense greasewood, in valley of Little Sandy.

5.00 Desc. prec.

8.50 E. edge of Sandy Wash, course S. $8^{\circ}E$.

19.00 West edge of Sandy Wash, " " "

25.20 Road, brs. S. & N.

31.70 Road, Hackberry to Sandy and Signal, brs. NE. & SW., turns W. at 5 chs. to SW.

40.00 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. 28 in N., and S. 33 in S. half,

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

46.00 Wash, 20 lks. wide, course SE., near head, asc.

55.00 Top of S. end of flat ridge, brs. SSE. & NNW. thence along near S. edge of broken mesa.

80.00 To cor. of secs. 28, 29, 32 & 33.

Land, mts., broken, rolling.

Soil, 2nd & 3rd rate, sandy, gravelly, stony.

Mesquite, greasewood, tesselata, and other brush. cacti.

Sparse grass.

Chains.	
	N. $0^{\circ} 3'$ W., bet. secs. 28 & 29.
	Over heavily rolling land, drains E., through scattering palonegro, tesseta, cacti.
21.00	Desc. grad.
28.33	Wash, 80 lks. wide, course E., asc. grad.
30.60	Low ridge, brs. E. & W., 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. 28, in W., and S. 28 in E. half, raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
45.20	Wash, 220 lks. wide, course E. asc. grad.
55.00	E. point of flat spur from broken mesa, brs. WNW. & ESE. Desc. grad.
68.00	Wash, 20 lks. wide, course SE.
79.00	Asc.
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. 19 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, 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. Mesquite, palonegro, tesseta, greasewood, sage brush. Fair grass in places. At this cor. at noon, I set off $3^{\circ} 7'$ S. on the decl. arc, and observe the sun on the meridian. The resulting lat. is $35^{\circ} 01'$ N.
	S. $89^{\circ} 58'$ E., on a random line, bet. secs. 21 & 28.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.02	Intersect N. & S. line at point $4\frac{1}{2}$ lks. S. of cor. of secs. 21, 22, 27 & 28, whence I run, West, on a true line, bet. secs. 21 & 28. Over mts. land, desc.
5.00	Gulch, course SW., asc. prec.
15.29	Top of spur, brs. SW. & NE., desc.
19.50	Foot of slope of foot hills, enter valley of Little Sandy, brs. N. & S.
23.40	Road, brs. N. & S.
25.90	E. bank of wash of Little Sandy, course SSW.
33.75	West bank of Little Sandy, course SSW., also mouth of wide wash from W. brs. N. 6 chs. 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. 21 in N., and S. 28 in S. half, raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
45.50	Asc. gravel bluff, brs. NW. & SE.
49.00	Top of broken mesa, brs. NW. & SE. Thence along near S. rim of same.
80.02	To cor. of secs. 20, 21, 28 & 29. Land, Mts., rolling, broken. Soil, 2nd & 3rd rate, sandy, gravelly, stony. Palonegro, mesquite, tesseta, greasewood, Sparse grass.

Chains.	N. 0° 3' W., bet. secs. 20 & 21. Over rolling land. drains to E.
28.00	Wash, 200 lks. wide, course S. 80° 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. 20 in W., and S. 21 in E. half, raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
65.00	Wash, 80 lks. wide, course E., asc. grad.
80.00	Top of flat spur, near E. point, brs. ESE. & WNW. 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. 19 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, raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Land, rolling. Soil, 3rd rate, sandy, gravelly. Scattering palonegro, mesquite, cacti. Good native grass.
40.00	East, on a random line, bet. secs. 16 & 21. Set temp. $\frac{1}{4}$ sec. cor.
79.98	Intersect N. & S. line at point 5 lks. N. of cor. of secs. 15, 16, 21 & 22, whence I run, N. 89° 58' W., on a true line, bet. secs. 16 & 21. Over rolling land, through dense mesquite, willow, and other brush, in valley of Sandy.
1.00	E. edge of Sandy wash, course SSE.
3.00	Middle of Little Sandy wash, course S. 10° E.
5.00	W. bank of Sandy, asc.
8.00	Foot of E. slope of mts., brs. N. & S., asc. steep.
37.00	Top of high ridge, brs. NNE. & SSW., desc.
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. 16 in N. and S. 21 in S. half, raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
54.00	Foot of main W. slope of mtn., brs. NNE. & SSW., desc. grad.
55.00	Wash, 100 lks. wide, course N., asc. grad.
72.00	Asc. steep E. point.
79.00	Top of point,
79.98	To cor. of secs. 16, 17, 20 & 21. Land, rolling, mts. Soil, 3rd rate, gravelly, stony. Mesquite, tesseta, willow, cacti., greasewood. Good short native grass. The land in this locality is overstocked with cattle, consequently the grass is sparse and thin. March 13, 1911.

Chains

- March 14, 1911.
At 8h a.m., l.m.t., at the cor. of secs. 16, 17, 20 & 21,
I set off $2^{\circ}46\frac{1}{2}'$ S. on the decl. arc, and $35^{\circ}2'$ N. on the
lat. arc, and determine a true meridian with the solar.
Thence I run,
N. $0^{\circ}3'$ W., bet. secs. 16 & 17.
Over broken, rolling land, through scattering palonegro,
cacti. descending.
- 13.35 Wash, 100 lks. wide, in draw 5 chs. wide, course ESE.
asc. grad.
- 30.00 Flat ridge, brs. ESE. & WNW., 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. 17 in W., and
S. 16 in E. half,
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
Asc. grad. from cor.
- 50.00 Flat ridge, brs. E. & W. desc. grad.
- 56.00 Draw 80 lks. wide, course ESE., near head, asc. grad.
- 63.00 Flat spur, brs. E. & W., desc. to broad draw.
- 65.00 Enter broad draw, course E.
- 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. 19 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,
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
Land, broken, rolling, broken.
Soil, 3rd rate, gravelly, sandy.
Palonegro, cacti, sage brush. Sparse grass.
-
- S. $89^{\circ}58'$ E., on a random line, bet. secs. 9 & 16.
40.00 set temp. $\frac{1}{4}$ sec. cor.
- 80.00 Intersect N. & S. line at point 5 lks. S. of cor. of
secs. 9, 10, 15 & 16, whence I run,
West, on a true line, bet. secs. 9 & 16.
Over broken rolling land, desc.
- 20.00 Foot of main slope, of ms., enter valley, brs. NE. & SW.
- 29.00 Main road, brs. N. & S.
- 36.00 E. bank of Little Sandy wash, course SSE., enter wash,
- 40.00 Point for $\frac{1}{4}$ sec. cor. falls in wash, course SSE.
- 42.00 W. edge of wash, brs. SSE. & NNW., leave wash, asc. grad.
- 43.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
the ground, marked on brass cap,
WC. $\frac{1}{4}$ in E. half,
S. 9 in NW., and
S. 16 in SW. quadrants,
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
From cor., asc. grad. in broad draw. S. of main wash, E.
- 80.00 To cor. of secs. 8, 9, 16 & 17.
Land, broken, rolling.
Soil, 2nd & 3rd rate, sandy, gravelly.
Mesquite, tesseta, cacti., scattering. Grass, fair.
-
- N. $0^{\circ}3'$ W., bet. secs. 8 & 9.
Over very broken land,
- 3.85 Wash, 200 lks. wide, course E., asc. grad.
- 14.00 Top of flat ridge, ends $\frac{1}{2}$ mile to E., brs. E. & W.
desc. grad.
- 28.00 Wash, 50 lks. wide, course ESE., asc. grad.
- 38.35 Top of ridge, brs. ESE. & WNW., desc. grad.

Chains.

- 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 $\frac{1}{4}$ S. 9 in E. half, raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 44.00 Wash, 40 lks. wide, course ESE., asc. grad.
- 52.00 Flat ridge, brs. ESE. & WNW., desc. grad.
- 60.00 Wash, 102 lks. wide, course ESE., in draw 8 chs. wide. asc.
- 70.00 Flat ridge, brs. ESE. & WNW., desc. grad.
- 75.00 Wash, 20 lks. wide, course ESE., asc. grad.
- 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. 19 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, broken. Soil, 3rd rate, gravelly. Palonegro, cacti, tesseta, sage brush. Sparse grass. At this cor. at noon, clouds obscure the sun, Impracticable to observe the latitude.

- East, on a random line, bet. secs. 4 & 9.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.10 Intersect N. & S. line at point 5 lks. N. of cor. of secs. 3, 4, 9 & 10, whence I run, N. $89^{\circ}58'$ W., on a true line, bet. secs. 4 & 9. Over rolling, broken land, desc. grad.
- 6.00 Main road, brs. NNE. & SSW.
- 26.00 Enter Sandy wash, course SSW.
- 31.00 Leave wash, course SSW., asc. grad.
- 38.00 Asc. NE. slope of spur, near E. point.
- 40.05 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 $\frac{1}{4}$ S. 9 in S. half, raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
- 45.00 Top of flat ridge, brs. ESE. & WNW., thence along near S. edge.
- 60.00 Desc. from flat ridge. 40 ft. to draw, brs. WNW. & ESE.
- 80.10 To cor. of secs. 4, 5, 8 & 9. Land, broken, rolling. Soil, 3rd rate, gravelly. Scattering palonegro, cacti. Good native grass.

- N. $0^{\circ}3'$ W., on a random line, bet. secs. 4 & 5.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 79.84 Intersect N. bdy. of Tp. at point 19 lks. W. of cor. of secs. 4, 5, 32 & 33, whence I run, S. $0^{\circ}5'$ W., on a true line, bet. secs. 4 & 5. Over broken rolling land,, asc.
- 5.00 Ridge, brs. E. & W., desc. grad.
- 7.00 Enter draw, brs. E. & W.
- 19.84 Wash, 150 lks. wide, course E.
- 25.00 Leave draw, brs. ESE. & WNW., asc.
- 33.00 Ridge, brs. ESE. & WNW., desc. grad.
- 39.84 Wash, 40 lks. wide, course ESE., asc. grad. Pt. for $\frac{1}{4}$ sec. cor.
- 40.84 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for witness cor. to $\frac{1}{4}$ sec. cor., marked on brass cap, WC. $\frac{1}{4}$ in N. half,, S. 5 in SW., and S. 4 in SE. quadrants, raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 48.00 Flat ridge, brs. E. & W., desc. grad.
- 60.62 Wash, 40 lks. wide, course E., asc. grad.
- 68.00 Flat ridge, brs. ESE., desc. grad.
- 79.84 To cor. of secs. 4, 5, 8 & 9. Land, broken, Soil, 3rd rate. Sparse grass. March 14, 1911.

Chains.	
	<p>March 15, 1911. At 8h a.m., l.m.t., at the cor. of secs. 5, 6, 31 & 32, on the S. bdy. of Tp., as established by W. O. Secor, and by him described, I set off 2° 23' S. on the decl. arc, and 34° 59' N. on the lat. arc, and determine a true meridian with the solar. Thence I run, N. 0° 3' W., bet. secs. 31 & 32. Over mts. land, asc.</p>
5.25	Ridge, brs. ESE., & WNW., desc. over rough foot hills, through scattering palonegro and scrub oak. desc.
19.00	Draw, course N. 60° E., 5 chs. wide.,
23.00	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. 31 in W., and $\frac{1}{4}$ S. 32 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.
44.65	Ridge, brs. ENE. & WSW., desc.
63.40	Enter wash, course E.
74.60	Leave wash, course E., asc. grad.
78.80	Top of flat spur, brs. ENE. & WSW., near point to E., 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. 19 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, raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Land, mts., broken, rolling. Soil, 3rd rate, gravelly. Palonegro, mesquite, tesseta, cacti. Good native grass.
	<hr/> <p>S. 89° 57' E., on a random line, bet. secs. 29 & 32.</p>
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.02	Intersect N. & S. line at cor. of secs. 28, 29, 32 & 33, whence I run, N. 89° 57' W., on a true line, bet. secs. 29 & 32. Over broken rolling mts. land, asc. grad.
31.00	Top of flat narrow ridge, brs. ESE. & WNW.
36.00	Desc.
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 $\frac{1}{4}$ S. 32 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 W. of cor.
41.00	Wash, 30 lks. wide, course ESE., asc.
49.38	Flat ridge, brs. ESE. & WNW., near SE. point, desc.
58.00	Draw 4 chs. wide, course ESE., asc. grad.
66.00	Asc. from draw, along top of ridge.
80.02	To cor. of secs. 29, 30, 31 & 32. Land, broken, mts., rolling. Soil, 3rd rate, stony, gravelly. Palonegro, cacti, few cedars, Good native grass in draws. At this cor. at noon, I set off 2° 20' S. on the decl. arc, and observe the sun on the meridian. The resulting lat. is 35° 0' N.

Chains.

- N. 89°57' W., on a random line, bet. secs. 30 & 31.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 78.98 Intersect W. bdy. of Tp. at point 2 $\frac{1}{2}$ lks. N. of cor. of
 secs. 25, 30, 31 & 36, whence I run,
 S. 89°58' E., on a true line, bet. secs. 30 & 31.
 Over mts. land, desc. grad. along top of ridge.
 4.90 Top of ridge, turns ESE. & WNW., desc.
 9.90 Bottom of descent. thence along N. foot of ridge, S. of wash.
 As point for $\frac{1}{4}$ sec. cor. will fall in wash, at
 35.98 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
 the ground for witness cor. to $\frac{1}{4}$ sec cor.,
 marked on brass cap,
 WC. $\frac{1}{4}$ W. of centre, in W. half,
 S. 30 in NE., and
 S. 31 in SE. quadrants,
 raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high N. of cor.
 38.98 Wash, 80 lks. wide, course ESE., asc. bluff 100 ft. high,
 leave valley of wash, asc. grad. along SSE. slope.
 65.10 Top of mesa, brs. ESE. & WNW., broken.
 78.98 To cor. of secs. 29, 30, 31 & 32.
 Land, broken, mts.
 Soil, 3rd rate, gravelly.
 Palonegro, cacti, scrub oak, few cedars. Good grass.

- N. 0° 3' W., bet. secs. 29 & 30.
 Over broken land,
 6.00 Desc. from mesa, brs. WNW. & ESE.
 12.00 Wash, 50 lks. wide, course ESE., asc.
 18.00 Top of mesa, brs. ESE. & WNW.,
 35.00 N. edge of mesa, brs. ESE. & WNW., 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,
 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.
 48.43 Wash, 15 lks. wide, course E., asc.
 57.00 Top of flat ridge, brs. ESE. & WNW.
 65.00 Desc. grad.
 79.00 Point of small spur, brs. NE. & SW., desc. steep.
 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. 19 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.
 Palonegro, scrub oak, few cedars. Good grass in places.

- S. 89°57' E., on a random line, bet. secs. 20 & 29.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.04 Intersect N. & S. line at point 2 lks. S. of cor. of
 secs. 20, 21, 28 & 29, whence I run,
 N. 89°58' W., on a true line, bet. secs. 20 & 29.
 Over heavily rolling land, asc.
 10.00 Spur, brs. ESE. & WNW., desc.
 16.30 Wash, 30 lks. wide, course ESE., near head, asc.
 30.00 Ridge, brs. ENE. & WSW.
 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. 20 in N., and S. 29 in S. half, and
 raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high N. of cor.

Chains.

65.00 Desc. from ridge, brs. ESE. & WNW.
 69.00 Enter draw, brs. ESE. & WNW.
 73.00 Wash, 30 lks. wide, course SE. asc. grad.
 80.04 To cor. of secs. 19, 20, 29 & 30,
 Land, mts., broken, rolling.
 Soil, 3rd rate, gravelly.
 Palonegro, greasewood, cacti, mesquite, tesseta,
 sage brush. Good native grass.

March 15, 1911.

March 16, 1911.

At 8h a.m., l.m.t., at the cor. of secs. 19, 20, 29 & 30,
 I set off $1^{\circ}59'S$ on the decl. arc, and $35^{\circ}1'N$ on the
 lat. arc, and determine a true meridian with the solar.
 Thence I run,
 N. $89^{\circ}58'W$, on a random line, bet. secs. 19 & 30.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 78.90 Intersect W. bdy. of Tp. at cor. of secs. 19, 24, 25 & 30,
 whence I run,
 S. $89^{\circ}58'E$, on a true line, bet. secs. 19 & 30.
 Over mts. land, asc.
 5.00 Top of spur from ridge, brs. SE. & NW., cross same and
 along S. slope.
 18.00 Knoll, brs. SE. & NW., desc. grad. along S. slope.
 38.90 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 $18 \times 18 \times 12$ 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.
 43.00 Wash, 30 lks. wide, course ENE., asc. grad.
 along near foot of N. slope.
 78.90 To cor. of secs. 19, 20, 29 & 30,
 Land, mts., rolling.
 Soil, 3rd rate, gravelly.
 Palonegro, mesquite, few cedars, sage brush. Good grass.

N. $0^{\circ}3'W$, bet. secs. 19 & 20.

Over heavily rolling land, broken.

1.55 Wash, 30 lks. wide, course ESE.
 7.50 Leave draw, brs. ESE. & WNW., asc.
 8.00 Top of long flat ridge, brs. ESE. & WNW.,
 12.00 Desc.
 25.00 Enter draw, brs. ESE. & WNW.
 29.00 Wash, 30 lks. wide, course E.
 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. 19 in W., and
 $\frac{1}{4}$ S. 20 in E. half,
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 41.00 Flat ridge, brs. ESE. & WNW., desc. grad.
 47.00 Wash, 30 lks. wide, course ESE., near head, asc. grad.
 49.00 Top of ridge, low and flat, brs. E. & W., desc. grad.
 56.00 Wash, 10 lks. wide, course ESE.
 62.00 Leave draw, brs. E. & W., asc.
 68.00 Top of ridge, brs. ESE. & WNW., desc. grad.
 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. 19 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,
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 Land, broken, rolling. Soil, 3rd rate gravelly.
 Scattering palonegro, cacti. Good grazing.

Chains.

S. 89°58' E., on a random line, bet. secs. 17 & 20.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.06 Intersect N. & S. line at cor. of secs. 16,17 20 & 21,
 whence I run,
 N. 89°58' W., on a true line, bet. secs. 17 & 20.
 Over broken, heavily rolling land, along near foot of
 S. slope of ridge. descending.
 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. 17 in N., and
 S. 20 in S. half,
 raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high N. of cor.
 Enter broad draw, brs ESE. & WNW.
 65.00 Wash, 30 lks. wide, course ESE. asc. grad.
 80.06 To cor. of secs. 17,18,19 & 20.
 Land, mts., rolling.
 Soil, 3rd rate, gravelly.
 Palonegro, greasewood, sage brush, cacti. Good grass.
 At this cor. at noon, I set off 1°56'S. on the
 decl. arc, and observe the sun on the meridian.
 The resulting lat. is 35° 2' N.

N. 89°58' W., on a random line, bet. secs. 18 & 19,
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 78.75 Intersect W. bdy. of Tp. at point 2 lks. S. of cor. of
 secs. 13,18,19 & 24, whence I run,
 S. 89°57' E., on a true line, bet. secs. 18 & 19.
 Over broken rolling land, desc. NNE. slope, over
 succession of sharp spurs, through dens palonegro,
 and other brush.
 38.75 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,
 raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high N. of cor.
 48.00 Wash, 30 lks. wide, course ESE. , asc. grad.
 71.00 Spur, brs. SE. & NW., desc.
 78.75 To cor. of secs. 17,18,19 & 20.
 Land, broken, heavily rolling.
 Soil, 3rd rate, gravelly.
 Palonegro, mesquite, tesseta, sage brush. Fair grass.

N. 0° 3' W., bet. secs. 17 & 18.
 Over heavily rolling, broken land, descending gradually.
 10.00 Wash, 30 lks. wide, course SE, near head, asc.
 30.00 Ridge, brs. ESE. & WNW., 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. 18 in W., and
 S. 17 in E. half,
 raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high W. of cor.
 44.00 Wash, 50 lks. wide, course ESE., asc. grad.
 58.00 Wash, 20 lks. wide, course ESE., near head.
 72.00 Ridge, low and flat, brs. ESE. & WNW., desc. grad.
 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. 19 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,
 raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high W. of cor.
 Land, broken, heavily rolling.
 Soil, 3rd rate, gravelly.
 Palonegro, greasewood, tesseta, scattering. Fair grass.

Chains

S. 89°58' E., on a random line, bet. secs. 8 & 17.
 40.00 Set temp. 1/4 sec. cor.
 80.00 Intersect N. & S. line at cor. of secs. 8,9,16 & 17,
 whence I run,
 N. 89°58' W., on a true line, bet. secs. 8 & 17.
 Over heavily rolling land, asc. grad.
 Through dense greasewood, and other brush.
 15.00 Leave draw, brs. SE. & NW., asc.
 16.00 Top of sharp ridge, point is 2 chs. to SE., brs. ESE.&WNW.
 19.00 Desc. 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. 8 in N., and
 1/4 S.17 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.
 75.00 Asc. low ridge, leave draw, brs. ESE. & WNW.
 80.00 To cor. of of secs. 7,8,17 & 18.
 Land, heavily rolling, broken.
 Soil, 3rd rate, gravelly.
 Dense greasewood, sage brush. Scattering palonegro, tesseta,
 mesquite, cacti. Good native grass.
 March 16, 1911.

March 17, 1911.
 At 8h a.m., l.m.t., at the cor. of secs. 7,8,17 & 18,
 I set off 1°35 1/2' S. on the decl. arc, and 35° 3' N. on the
 lat. arc, and determine a true meridian with the solar.
 Thence I run,
 N. 89°57' W., on a random line, bet. secs. 7 & 18.
 40.00 Set temp. 1/4 sec. cor.
 78.69 Intersect W. bdy. of Tp. at point 2 1/2 lks. S. of cor. of
 secs. 7,12,13 & 18, whence I run,
 S. 89°56' E., on a true line, bet. secs. 7 & 18.
 Over broken, heavily rolling land, desc.
 10.00 Wash, 50 lks. wide, course SE., asc. grad.
 20.00 Ridge, brs. ESE. & WNW., cross same and along S. slope.
 38.69 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. 7 in N., and
 1/4 S.18 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.
 46.69 Ridge, brs. ESE. & WNW., desc. grad. on same.
 78.69 To cor. of secs. 7,8,17 & 18.
 Land, broken, heavily rolling.
 Soil, 3rd rate, gravelly, dry.
 Palonegro, mesquite, cacti, few cedars. Good grass.

N. 0° 3' W., bet. secs. 7 & 8.
 Over broken heavily rolling land, through scant brush,
 19.50 Top of flat mesa ridge, brs. ESE. & WNW., N. edge, desc.
 22.77 Enter broad draw, brs. ESE. & WNW., dense greasewood.
 37.90 Main wash of draw, 80 lks. wide, course ESE., asc. prec.
 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. 7 in W., and
 1/4 S. 8 in E. half,
 raise a mound of stone 2 ft. base, 1 1/2 ft. high W. of cor.
 44.00 Top of flat ridge, brs. ESE. & WNW. across broken ridges.
 67.00 Sharp hog back, brs. ESE. & WNW.,
 77.00 Sharp ridge, 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. 5,6,7 & 8, marked on brass cap,
 T. 19 N., R. 13 W. in N. half,
 S.6 in NW., S.5 in NE., S.8 in SE., & S.7 in SW. quadrants,
 raise a mound of stone 2 ft. base, 1 1/2 ft. high, W. of cor.
 Land, broken. Soil, 3rd rate, gravelly.
 Greasewood, mesquite, tesseta, cacti. Good native grass.

- Chains.
- S. 89°58' E., on a random line, bet. secs. 5 & 8.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 79.96 Intersect N. & S. line at point 5 lks. N. of cor. of secs. 4, 5, 8 & 9, whence I run, N. 89°56' W., on a true line, bet. secs. 5 & 8. Over very broken, heavily rolling land, desc. grad.
- 13.05 Wash, 20 lks. wide, course ESE., asc. grad.
- 20.00 Top of low flat ridge, brs. ESE. & WNW., thense along S. edge of same.
- 35.00 Spur, brs. SE. & NW., desc. grad.
- 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. 5 in N., and S. 8 in S. half, raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
- 58.00 Wash, 10 lks. wide, course SE., asc. grad.
- 78.00 Top of E. point of spur, brs. ESE. & WNW.
- 79.96 To cor. of secs. 5, 6, 7 & 8. Land, broken, rolling. Soil, 3rd rate, gravelly, sandy. Greasewood, palonegro, tesseta. Good native grass. At this cor. at noon, . . . , I set off 1°32' S. on the decl. arc, and observe the sun on the meridian. The resulting lat. is 35°3 $\frac{1}{2}$ ' N.
-
- N. 89°56' W., on a random line, bet. secs. 6 & 7.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 78.60 Intersect W. bdy. of Tp. at point 3 lks. S. of cor. of secs. 1, 6, 7 & 12, whence I run, S. 89°55' E., on a true line, bet. secs. 6 & 7. Over succession of spurs, ESE. & WNW.
- 35.00 Asc. SW. slope of ridge.
- 37.00 Ridge, brs. SE. & NW.
- 38.60 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, raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor. Desc. from cor., NE. slope.
- 52.00 Enter draw, brs. ESE. & WNW.
- 54.00 Wash, 20 lks. wide, course SE.
- 56.00 Leave draw, brs. SE. & NW., asc. prec.
- 58.60 Top of ridge, brs. SE. & NW., W. edge of broken mesa. Desc. grad.
- 69.70 On spur, brs. ESE. & WNW., desc. on same.
- 78.60 To cor. of secs. 5, 6, 7 & 8. Land, broken, heavily rolling. Soil, 3rd rate, gravelly, sandy. Greasewood, mesquite, palonegro, few cedars. Good grass.
-
- N. 0° 5' E., on a random line, bet. secs. 5 & 6.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 79.84 Intersect N. bdy. of Tp. at point 7 lks. E. of cor. of secs. 5, 6, 31 & 32, whence I run, S. 0° 2' W., on a true line, bet. secs. 5 & 6. Over broken lad, drains ESE. asc.
- 1.00 Small ridge, brs. ESE. & WNW., desc. to draw.
- 9.00 Wash, 50 lks. wide, in draw 4 chs. wide, course ESE.
- 21.84 Wash, 80 lks. wide, course ESE., asc. grad.
- 39.84 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, raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.

Chains.

- 51.04 Wash, 20 lks. wide, course ESE., leave draw, asc.
- 59.84 Ridge, brs. ESE. & WNW., desc. grad.
- 70.00 Asc.
- 74.84 Small spur, brs. E. & W.,
- 79.84 To cor. of secs. 5,6,7 & 8.
Land, broken, rolling.
Soil, 3rd rate, gravelly.
Scattering greasewood, sage brush, tesseta.
Good coarse native bunch grass.

March 17, 1911.

---General Description

T. 19 N., R. 13 W.

This Township is very rough and mountainous in the NE. & SE. portions, and broken and rolling in the NW. & SW. portions; with some level land in the narrow valley of Little Sandy River in the interior.

The soil in the mountainous portions is mostly a dry worthless granite gravel, very stony in places.

There is no timber in any portion of the Tp.

The vegetation is mostly a scant growth of Palonegro, greasewood, cacti, and other worthless shrubs, with considerable mesquite in the narrow valleys of the main washes and Little Sandy.

The only water in the Township is that developed at the well and windmill of A.B. Fancher, known as the Windmill Ranch, in the SE. $\frac{1}{4}$ of sec. 16.

Fancher has built substantial dwelling, corrals and outbuildings, and otherwise improved and cleared about 80 acres of land in the SW. $\frac{1}{4}$ of sec. 16.

The land in this Township is of no value except for grazing purposes, and is now overstocked for that purpose.

There is some good fertile land along the valley of Little Sandy, which could be developed and watered, as it is evident that water may be secured at comparatively slight depth, from 40 to 80 ft. in places.

Jesse B. Wright
U. S. Surveyor

APPROVAL.

BOOK 2305

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OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix Ariz. March 7th, 1912

The foregoing field notes of the survey of

the subdivisions of T19N. R13W,

G & R Meridian, Arizona.

executed by

Jesse B. Wright, U.S. Surveyor

under his special instructions dated

Sept. 16,

1910

, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank S. Galloway

U. S. Surveyor General.