

Book L.

BOOK 2304

92

FIELD NOTES

2304

OF THE SURVEY OF THE

2304

Subdivision Lines T18 N. R 13 W.

2304

Of the Grand D. R. Meridian,

In the State of Territory of Arizona

EXECUTED BY

Jose 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, 1911, 1899.

2304

Survey commenced July 14, 1911

Survey completed July 28, 1911

2304

2304

For Oaths, see Book B.

BOOK 2304

INDEX DIAGRAM.

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Note: For Boundaries see Book D, Group 10.

Chains.

Survey commenced Feb. 14, 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 3h 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. $34^{\circ}54'$ S., long. $113^{\circ}57'11''$ W., I set off $13^{\circ}7\frac{1}{2}'$ S. on the decl. arc, and $34^{\circ}54'$ N. on the lat. arc, and determine a meridian with the solar, and make 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 9h 48m 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. 14, 1911.

Feb. 15, 1911.

At 8h a.m., l.m.t., I set off the azimuth of Polaris, $1^{\circ}25\frac{1}{2}'$ 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 $12^{\circ}52'$ S. on the decl. arc, and $34^{\circ}54'$ 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 $15''$ 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. $15^{\circ}30'$ W.; the angle thus determined gives the magnetic declination as $15^{\circ}30'$ E.

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

Chains.

N. 0° 1' W., bet. secs. 35 & 36.
 Over mts. land, along broken SW. slope, asc. through
 palonegro, and cacti, land, stony and gravelly, sparse
 grass.

34.50 Ridge, brs. WNW. & ESE., desc.
 39.00 Wash, 200 lks. wide, 30 ft. deep, 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. 35 in W., and
 $\frac{1}{4}$ S. 36 in E. half,
 raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high W. of cor.
 Thence along broken W. slope.

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, 18 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,
 raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high W. of cor.
 Land, mts., broken.
 Soil, 3rd rate, gravelly, stony, dry.
 Palonegro, cacti, and other brush. Sparse grass. No timber.

East, on a random line, bet. secs. 25 & 36,
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.20 Intersect E. bdy. of Tp. at cor. of secs. 25, 30, 31 & 36,
 whence I run,
 West; on a true line, bet. secs. 25 & 36.
 Over broken rolling land, desc. grad.

40.10 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. 25 in N., and
 $\frac{1}{4}$ S. 36 in S. half,
 raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high N. of cor.

80.20 To cor. of secs. 25, 26, 35 & 36.
 Land, broken, rolling.
 Soil, 3rd rate, gravelly, stony, loose, dry, barren.
 Palonegro, cacti. Sparse grass. No timber in this Tp.
 At this cor. at apparent noon I set off 12° 50' S. on the
 dec. arc, and observe the sun on the meridian.
 The resulting lat. is 34° 55' N.

N. 0° 1' W., bet. secs. 25 & 26.
 Over broken, mts. land, along W. slope, through dense
 mesquite, tesseta, greasewood,

17.60 Gulch 50 lks. wide, course W., asc.
 19.18 Point of spur, brs. W. & E., desc. abruptly.
 20.50 Foot of bluff, brs. W. & E.
 35.00 Wash, 80 lks. wide, course SW.
 As point for $\frac{1}{4}$ sec. cor. will fall in wash, at
 39.60 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. 25 in SE., and
 S. 26 in SW. quadrants,
 raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high W. of cor.

40.30 Wash, 80 lks. wide, course SSE.
 42.00 Leace wash, from ENE., asc.
 43.00 Top of bank, brs. W. & E., thence along broken W. slope.
 47.10 Wash, 80 lks. wide, course WSW.
 56.00 Wash, 30 lks. wide, course WSW.
 72.00 Asc. grad.

Chains.

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. 18 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,
 raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
 Land, broken, rolling.
 Soil, 2nd & 3rd rate, sandy, gravelly, loose, dry.
 Mesquite, tesseta, greasewood, palonegro, cacti,
 sparse grass.

East, on a random line, bet. secs. 24 & 25.
 40.00 Set temp. ¼ sec. cor.
 80.40 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 rolling, land, desc. grad.; through dense greasewood, tesseta.
 40.20 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for ¼ sec. cor., marked on brass cap,
 ¼ S. 24 in N., and
 S. 25 in S. half,
 raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.
 46.00 Wash, 80 lks. wide, course SW.
 55.00 Asc. SE. slope. leave undergrowth.
 61.00 Top of spur, brs. SW. & NE. ends 5 chs. to SW. desc.
 68.00 Gulch 20 lks. wide, course SSW., near head, asc. grad.
 80.40 To cor. of secs. 23, 24, 25 & 26.
 Land, rolling, broken.
 Soil, 3rd rate, gravelly, stony.
 Greasewood, tesseta, palonegro, cacti. sparse grass.
 Feb. 15, 1911.

Feb. 16, 1911.
 At 8h a.m., l.m.t. at the cor. of secs. 23, 24, 25 & 26.
 I set off 12°32' S. on the decl. arc, and 34°56' N. on the lat. arc, and determine a true meridian with the solar.,
 Thence I run,
 N. 0°-1' W., bet. secs. 23 & 24.
 Over broken land, near foot of W. slope.
 22.00 Gulch 30 lks. wide, course W.
 32.00 Gulch 20 lks. wide, course W., asc.
 36.00 Top of small spur, brs. W. & E., desc.
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for ¼ sec. cor., marked on brass cap,
 ¼ S. 23 in W., and
 S. 24 in E. half,
 raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
 42.00 Gulch 20 lks. wide, course W. asc.
 48.00 Top of W. side of butte on spur, brs. W. & E., desc.
 68.00 Granite wash, 50 lks. 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. 13, 14, 23 & 24,
 marked on brass cap,
 T. 18 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 2 ft. base, 1½ ft. high W. of cor.
 Land, rolling broken.
 Soil, 3rd rate, gravelly, dry.
 Scattering greasewood, paloverde, sparse grass.

Chains.

- N. $89^{\circ}59'$ E., on a random line, bet. secs. 13 & 24.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.42 Intersect E. bdy. of Tp. at point 5 lks. S. of cor. of secs. 13, 18, 19 & 24, whence I run, S. $89^{\circ}57'$ W., on a true line, bet. secs. 13 & 24. Over rough mts. land, asc. through dense palonegro, cacti, and other brush.
- 6.00 Top of spur, brs. SW. & NE., desc. steep W. slope
- 22.00 Gulch 50 lks. wide, course SW. asc. steep SE. slope.
- 40.21 Top of high granite ridge, brs. S. & N. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 13 in N., and S. 24 in S. half, raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor. Desc. steep W. slope.
- 77.00 Wash, 80 lks. wide, course SW.
- 80.42 To cor. of secs. 13, 14, 23 & 24. Land, rough, mts. Soil, 3rd rate, gravelly, stony. barren, dry, in places. Palonegro, cacti, and othe brush, sparse grass. At this cor. at apparent noon I set off $12^{\circ}29\frac{1}{2}'$ S. on the decl. arc, and observe the sun on the meridian. The resulting lat. is $34^{\circ}56\frac{1}{2}'$ N.
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- N. $0^{\circ}1'$ W., bet. secs. 13 & 14. Over rough, broken mts. land, asc. grad. along ESE. slope granite gravel, through dense palonegro.
- 8.00 Top of small butte, brs. W. 3 chs. dist.
- 15.00 Dividing ridge, brs. NE. & SW., desc. grad. NW. slope.
- 32.00 Granite wash, 50 lks. wide, course SW. asc.
- 40.00 Impracticable to set iron post, Set a granite stone $30 \times 20 \times 12$ ins. 24 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.
- 48.00 Low saddle in ridge, brs. W. & E., thence on spur from same, desc.
- 53.85 N. point of granite spur.
- 58.18 S. rim of Trout Creek canyon, desc. prec.
- 65.00 Trout Creek, 180 lks. wide, course WSW., permanent stream of flowing water, 4 ins. deep, 20 lks. wide, Asc. prec. SE. slope.
- 71.25 E. point of spur above creek, desc. abrupt.
- 76.00 Trout Creek, 180 lks. wide, course SE.
- 78.00 Asc. prec.
- 80.00 Impracticable to set iron post. Set a trap rock $24 \times 14 \times 10$ ins., on bed-rock, in mound of stone 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, $1\frac{1}{2}$ ft. high W. of cor. from which, A paloverde tree, 6 ins. in diam. brs. N. 35° E. 85 lks. dist., marked T. 18 N., R. 13 W. S. 12 B.T. No other bearings available, pits impracticable. Beyond this cor., the land is extremely rough, and mts., and impracticable and impossible to be traversed by a pack animal, therefore I set stones fro corners instead of the iron posts as furnished by the Government. Land, very rough, mts. Soil, 3rd rate, stony, dry. Undergrowth, palonegro, cacti, and other brush. No timber. Sparse grass in places.

Chains.

- N. 89° 57' E., on a random line, bet. secs. 12 & 13.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.30 Intersect E. bdy. of Tp. at point 7 lks. N. of cor. of
 secs. 7, 12, 13 & 18, whence I run,
 West, on a true line, bet. secs. 12 & 13.
 Over mts. land, along steep, broken N. slope.
 40.15 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.
 No bearings available. Pits impracticable. asc. from cor.
 42.17 Top of ridge, brs. NNE. & SSW. desc. steep.
 52.75 Canyon 150 lks. wide, 100 ft. deep, course SW. turns WSW.
 thence along N. side of same.
 61.90 Top of spur, brs. SSW. & NNE., desc. prec. SW. slope.
 80.30 To cor. of secs. 11, 12, 13 & 14.
 Land, mts., very rough.
 Soil, 3rd rate, stony. granite gravel and stones.
 Palonegro, cacti.

Feb. 16, 1911.

- N. 0° 1' W., bet. secs. 11 & 12.
 Over very rough mts. land, asc. prec. E. wall of canyon.
 13.50 Top of spur, brs. W. & E., desc. prec.
 28.00 S. rim pf Trout Creek canyon, desc. abrupt.
 33.00 Trout Creek, 150 lks. wide, course WSW.
 35.00 Asc. prec. SE. slope.
 40.00 Set a granite stone 24x12x8 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.
 55.00 Top of N. rim of canyon, brs. E. & W.,
 Continue to asc.
 68.00 Sparp granite spur, brs. E. & W., desc.
 75.00 Desc. abruptly.
 80.00 Mark cross (x) on granite ledge in place, 4x5x2 ft. above
 ground for cor. of secs. 1, 2, 11 & 12, with 5 grooves on
 S. & 1 groove on E. of cross, and
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 Land, mts., very rough.
 Soil, 3rd & 4th rate, very stony.
 Scattering palonegro, cacti.

- East, on a random line, bet. secs. 1 & 12.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.20 Intersect E. bdy. of Tp. at point 2 lks. S. of cor. of
 secs. 1, 6, 7 & 12, whence I run,
 S. 89° 59' W., on a true line, bet., secs. 1 & 12.
 Over very rough mts. land, desc. prec. stony W. slope.
 30.00 Trout Creek, 150 lks. wide, in bend, SE., S., thence SW.
 32.00 Asc. grad.
 40.00 Set a granite stone 20x14x10 ins. 15 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.
 42.00 Asc. prec. stony SE. slope, along N. side of deep canyon.
 75.00 Desc. prec. to canyon.
 79.00 Canyon 4 chs. wide, 200 ft. deep, course ESE.
 80.20 To cor. of secs. 1, 2, 11 & 12.
 Land, mts., very rough.
 Soil, 3rd rate, very stony, worthless.
 Scattering palonegro, cottonwood, in canyon.
 At this cor. at noon, clouds obscure the sun,
 impracticable to observe the latitude.

Chains.

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

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

80.04 Intersect N. bdy. of Tp. at point 26 lks. E. of cor. of secs. 1, 2, 35 & 36, whence I run, S. 0° 10' W., on a true line, bet. secs. 1 & 2. Over extremely rough mts. land, asc. prec.

3.00 Top of E. side of apex of high granite peak. apex is 150 lks. W., elevation, 4500 ft. above sea level, and about 2000 ft. above sec. cor. to S. Desc. prec. S. slope of mtn.

40.04 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.

79.50 Desc. abruptly.

79.60 Canyon 60 lks. wide, course ESE.

80.04 To cor. of secs. 1, 2, 11 & 12. Land, extremely rough and mts. Soil, 4th rate, worthless, very stony. No timber. Undergrowth, sparse palonegro, cacti.

Feb. 17, 1911.

Feb. 18, 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 11° 50' S. on the decl. arc, and 34° 54' N. on the lat. arc, and determine a true meridian with the solar. Thence I run, N. 0° 1' W., bet. secs. 34 & 35. Over broken, rolling land, desc. grad. through dense greasewood, palonegro, and cacti.

24.00 Wash, 50 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. 34 in W., and S. 35 in E. half, raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Asc. from cor.

42.00 Spur, brs. E. & W., near E. end, desc.

48.00 Wash, 30 lks. wide, course ESE.

52.00 Asc. prec.

54.00 Top of low mesa, brs. E. & W., asc. grad. ESE. slope.

70.00 Top & along E. slope.

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. 18 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, broken, rolling. Soil, 2nd & 3rd rate, loose, gravelly. palonegro, cacti, greasewood, sparse grass.

- Chains.
- East, on a random line, bet. secs. 26 & 35.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.08 Intersect cor. of secs. 25, 26, 35 & 36, whence I run, West, on a true line, bet. secs. 26 & 35.
Over rolling, broken land, desc. grad., through dense mesquite and tesseta.
- 5.47 East bluff of Little Sandy River, brs. N. & S., desc, abruptly
- 7.00 Foot of bluff, enter wash of Little Sandy River, course SSW.
- 11.39 East edge of water, Little Sandy River, flows S. 10° W.
- 13.50 West edge " " " " " "
- 18.00 West edge of wash of Little Sandy, course SSW., asc. grad.
- 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. 26 in N., and
S. 35 in S. half,
dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
- 45.57 Road, Signal, Sandy, to Kingman & Hackberry, brs. N. & S.
- 52.25 Leave valley of Sandy, brs. N. & S., asc.
- 56.50 Top of broken mesa, brs. N. & S., asc. grad. on same.
- 80.08 To cor. of secs. 26, 27, 34 & 35.
Land, rolling, broken.
Soil, 2nd & 3rd rate, sandy, gravelly., loose,
Mesquite, tesseta, dense in valley. palonegro, cacti.
sparse grass.
At this cor. at apparent noon, I set off $11^{\circ}47\frac{1}{2}'$ S. on the decl. arc, and observe the sun on the meridian.
The resulting lat. is $34^{\circ}55'$ N.
-
- N. 0° 1' W., bet. secs. 26 & 27.
Over rough, broken, hilly land, along E. slope.
- 11.44 Top of point of E. slope, desc. NE. slope.
- 28.50 Desc. abruptly, bluff, brs. NW. & SE.
- 29.75 Foot of bluff, enter valley of Kane Spring Canyon, brs. ESE. & WNW., thence through very dense mesquite, tesseta, willow, cacti.
- 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,
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 43.00 Wash, 200 lks. wide, Kane Springs wash, course ESE.
- 46.80 Road, brs. E. & W.
Leave valley, and dense mesquite and tesseta, asc.
- 54.00 Top of flat ridge, brs. ESE. & WNW.
- 57.00 Desc.
- 59.20 Gulch 50 lks. wide, course ESE.
- 62.50 Alkaline spring on line, at head of small gulch, course SSW.
asc.
- 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. 18 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,
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
Land, hilly, broken.
Soil, 2nd & 3rd rate, sandy, gravelly, loose, dry.
Mesquite, tesseta, cacti, willow. Sparse grass.

- Chains.
- East, on a random line, bet. secs. 23 & 26.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.10 Intersect cor. of secs. 23, 24, 25 & 26, whence I run, West, on a true line, bet. secs. 23 & 26. Over rolling, broken land, desc., through mesquite, and tesseta.
- 20.80 Road, brs. NNW. & SSE.
- 29.70 Wire fence, brs. NNW. & SSE. turns W. at 14 chs. to SE.
- 33.00 Small ditch, course SE., foot of slope, enter valley of Little Sandy River.
- 34.05 As cor. point for $\frac{1}{4}$ sec. cor. will fall in wash, 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 S. half, S. 23 in NE., and S. 26 in SE. quadrants, raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor., from which, A cottonwood tree 24 ins. diam. brs. N. 86° W. 207 lks. dist., marked W.C. $\frac{1}{4}$ S. 23 B.T. A small frame house, vacant, brs. N. 40° W. 4 chs. dist.
- 36.70 Wire fence, brs. N. 10° W. & S. 10° E.
- 37.00 Enter wash of Little Sandy River, course SSE.
- 40.05 Point for $\frac{1}{4}$ sec. cor. in wash,
- 43.00 Stream of water, Little Sandy River, 60 lks. wide, 4 ins. deep, course SSE. The water flows at this point about 8 or 9 months of the year. About $\frac{1}{2}$ mile below mouth of Trout Creek, from which most of the water flows more or less permanent.
- 46.25 Leave Sandy Wash, course SSE.
- 47.10 Wire fence, brs. N. & S., enter field of Pope Fancher.
- 56.00 Leave valley, brs. S. & N., of Sandy, asc.
- 62.93 Top of broken mesa, wire fence, brs. NNE. & SSW., asc. grad.
- 80.10 To cor. of secs. 22, 23, 26 & 27. Land, rolling, broken. Soil, 2nd & 3rd rate, loose, sandy, gravelly. Mesquite, tesseta, willow, cottonwood, cacti. Sparse grass. Feb. 18, 1911.
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- Feb. 19, 1911.
- At 8h a.m., l.m.t., at the cor. of secs. 22, 23, 26 & 27, I set off $11^{\circ} 29'$ S. on the decl. arc, and $34^{\circ} 56'$ N. on the lat. arc, and determine a true meridian with the solar. Thence I run, N. $0^{\circ} 1'$ W., bet. secs. 22 & 23. Over broken, rolling land, desc. grad., through dense tesseta, and cacti.
- 20.00 Foot of main slope, enter valley of Sandy, brs. ESE. & NNW.
- 34.00 Enter Sandy wash, course SE.
- 40.00 Point for $\frac{1}{4}$ sec. cor. falls in wash. Small stream of water, sand wash, broad and flat.
- 48.00 Leave main wash, enter flat, subject to overflow.
- 52.00 Leave wash land, subject to overflow, brs. SSE. & NNW.
- 52.70 Road, brs. NNW. & SSE.
- 53.50 Leave flat, brs. SSE. & NNW., asc.
- 54.00 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. $\frac{1}{4}$ in S. half, S. 22 in SW., and S. 23 in SE. quadrants, raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. No bearings available. Pits impracticable. Asc. prec. SW. slope, very rough and stony.
- 60.00 Top of high rocky spur, brs. SSE. & NNW., cross same and asc. along E. side of same, along ESE. slope.

Chains.

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. 18 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,
 raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
 No bearings available. Pits impracticable.
 Top of peak on long spur, brs. W. 50 lks. dist.
 Land, broken, rolling, mts.
 Soil, 2nd & 3rd rate, loose, sandy, gravelly, stony.
 Mesquite, tesselata, willow, and other brush in valley.
 Palonegro, cacti. Sparse grass.

East, on a random line, bet. secs. 14 & 23.
 40.00 Set temp. ¼ sec. cor.
 80.00 Intersect N. & S. line at point 5 lks. N. of cor. of secs. 13, 14, 23 & 24, whence I run, N. 89° 58' W., on a true line, bet. secs. 14 & 23.
 Over mts., broken land, along S. slope.
 8.00 Top of broken flat spur, brs. SW. & NE., desc.
 17.00 Head of small gulch, course SSW., asc.
 24.00 Top of granite knoll, brs. SW. & NE.
 39.50 Gulch 50 lks. wide, course SW.
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for ¼ sec. cor., marked on brass cap,
 ¼ S. 14 in N., and
 S. 23 in S. half,
 raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.
 43.00 Foot of main slope, brs. S. & N.
 45.00 Middle of Trout Creek, 3 chs. wide, course SSW., stream of water 40 lks. wide, 3 ins. deep, estimated from velocity of flow, about 4 cubic ft. per sec.
 There is some water in this stream the year round.
 47.46 Wire fence, brs. S. & N., enter field of Geo. B. Davis.
 55.00 House of Geo. B. Davis, brs. S. 5 chs. dist.
 57.55 Irrigation ditch, course S. Leave field, asc.
 59.00 Leave valley, brs. S. & N., asc. prec. E. slope.
 67.00 Top of bluff, brs. S. & N., asc. grad.
 72.60 Top of E. point of spur, brs. E. & W., asc. on spur.
 80.00 To cor. of secs. 14, 15, 22 & 23.
 Land, rough, broken, rolling, mts.
 Soil, 2nd & 3rd rate, sandy, loose, gravelly, stony.
 Mesquite, tesselata, palonegro, cacti. Good grass in valley.
 At this cor. at apparent noon I set off 11° 26½' S. on the decl. arc, and observe the sun on the meridian.
 The resulting Lat. is 34° 57' N.

N. 0° 1' W., bet. secs. 14 & 15.
 Very rough, broken mts. land, along E. slope of ridge many small spurs and gulches, ESE., ascending.
 Beyond this cor. the land is so rough that it is impracticable to transport and set the iron posts as corners, as furnished by the Government for the purpose; therefore I use stones as corners.
 40.00 Impracticable to set iron post.
 Set a granite stone 24x12x8 ins., on bed-rock, in mound of stone for ¼ sec. cor., marked ¼ on W. face, and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
 80.00 Set a granite stone 30x14x10 ins. 24 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, 1½ ft. high W. of cor. No bearings available.
 Land, very rough, mts. Soil, 3rd rate, stony.
 Scattering palonegro, cacti, sparse grass.

Chains.
 S. $89^{\circ}58'$ E., on a random line, bet. secs. 11 & 14.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.90 Intersect N. & S. line, at point 5 lks. N. of cor. of
 secs. 11, 12, 13 & 14, whence I run,
 N. $89^{\circ}56'$ W., on a true line, bet. secs. 11 & 14.
 Over very rough, broken mts. land, desc.
 4.00 Trout Creek, 150 lks. wide, course S.
 6.00 Asc. prec.
 16.00 Top of rocky spur, brs. S. & N., thence along, very steep,
 rough, stony, broken S. slope.
 39.95 Set a granite stone 20x10x10 ins. on bed-rock, in mound of
 stone 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 Asc. SE. slope.
 79.90 To cor. of secs. 10, 11, 14 & 15.
 Land, rough, mts.
 Soil, 3rd rate, stony, worthless.
 Scattering palonegro, cacti.

Feb. 19, 1911.

Feb. 20, 1911.

At 8h a.m., l.m.t., at the cor. of secs. 10, 11, 14 & 15,
 I set off $11^{\circ}7\frac{1}{2}'$ S. on the decl. arc, and $34^{\circ}57'$ 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 very rough, mts. land, asc.
 3.45 Top of ridge, brs. SSW. & NE. desc.
 10.40 Gulch, 50 lks. wide, course SW., asc.
 19.38 Ridge, brs. WSW. & ENE., desc. NW. slope.
 40.00 Set a granite stone 24x12x8 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.
 42.80 Middle of canyon, 3 chs. wide, 150 ft. deep, course SSW.,
 asc. prec. SE. slope.
 71.20 Top of E. side of butte on spur, desc.
 79.80 Gulch, 20 lks. wide, course ESE., near head, asc.
 80.00 Set a granite stone 24x14x10 ins. 18 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. Pits impracticable.
 Land, rough, mts.
 Soil, 3rd rate, stony.
 Scattering palonegro, cacti. Fair grass in places.

S. $89^{\circ}56'$ E., on a random line, bet. secs. 2 & 11.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.00 Intersect N. & S. line at point 5 lks. S. of cor. of
 secs. 1, 2, 11 & 12, whence I run,
 N. $89^{\circ}58'$ W., on a true line, bet. secs. 2 & 11.
 Over very rough mts. land, along N. slope. ascending.
 4.00 Rocky spur, brs. N. & S. desc.
 25.00 Gulch, 150 lks. wide, course N., asc.
 40.00 Set a granite stone 24x14x8 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.
 At this cor. at noon, l.m.t., clouds obscure the sun.
 Impracticable to observe the latitude.
 42.50 Rocky spur, brs. S. & N., desc.
 48.00 Gulch, 150 lks. wide, course SSE. asc. steep.
 55.30 Rocky spur, brs. SSW. & NNE.
 70.00 Gulch, 180 lks. wide, course SSW., asc. steep.
 80.00 To cor. of secs. 2, 3, 10 & 11.
 Land, rough, broken, mts. Soil, 3rd rate, stony, worthless.
 Scattering palonegro, cacti. Sparse grass.

Chains.
 N. $0^{\circ} 1'$ W., on a random line, bet. secs. 2 & 3.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.02 Intersect N. bdy. of Tp. at point 3 lks. E. of cor. of
 secs. 2, 3, 34 & 35, whence I run,
 S. $0^{\circ} 2'$ E., on a true line, bet. secs. 2 & 3.
 Over rough, mts. land, asc. steep.
 10.00 Top of high dividing ridge, brs. WSW. & ENE.
 desc. broken S. slope.
 35.00 Gulch, 50 lks. wide, course SSE., near head.
 Thence along E. slope of ridge, descending.
 40.02 Set a granite stone, 20 x 14 x 10 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.
 49.00 Gulch, 20 lks. wide, course SE., asc.
 56.00 Cross ridge, brs. SE. & WNW., turns S. at 5 chs. SE.
 thence along W. side of crest of same.
 76.00 Cross ridge, brs. SSW. & NNE., desc. SE. slope.
 80.02 To cor. of secs. 2, 3, 10 & 11.
 Land, mts., broken.
 Soil, 3rd rate, stony, dry.
 Scattering palonegro, cacti, and other brush sparse grass.
 On evening of this date discharged Walter J. Thompson,
 James R. Smith, and Edgar Morris. Feb. 20, 1911.

Feb. 21, 1911.
 Engaged Bart Tyson, Rex Haskins, and Gus Wuetig, as
 assistants.

Feb. 23, 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 $10^{\circ} 2\frac{1}{2}'$ S. on the decl. arc, and $34^{\circ} 54'$ 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 hilly, broken land, many sharp ridges, trending E.,
 through scattering palonegro, tesseta, greasewood, cacti.
 Soil, loose, gravelly, worthless. Grass sparse.
 17.25 Road, brs. NW. & SE.
 20.00 Wash, 80 lks. wide, in draw, 8 chs. wide, course 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. 33 in W., and
 S. 34 in E. half,
 raise a mound of stone 3 ft. base, 2 ft. high W. of cor.
 40.50 Wash, 50 lks. wide, course ESE. in draw 4 chs. wide. asc.
 66.72 Low, sharp dividing ridge, brs. ESE. & WNW., desc.
 79.00 Wash, 30 lks. wide, course NNW.
 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. 18 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.
 Soil, 3rd rate, gravelly, loose.
 Palonegro, greasewood, tesseta, mesquite, cacti.

C chains.

East, on a random line, bet. secs. 27 & 34.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.04 Intersect N. & S. line, at point 5 lks. S. of cor. of
 secs. 26, 27, 34 & 35, whence I run,
 S. $89^{\circ}58'$ W., on a true line, bet. secs. 27 & 34.
 Over heavily rolling, hilly land.
 11.23 Top of hill, thence over rolling hills.
 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. 27 in N., and
 S. 34 in S. half,
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
 80.04 To cor. of secs. 27, 28, 33 & 34.
 Land, heavily rolling, hilly.
 Soil, 3rd rate, gravelly, loose, dry.
 Scattering palonegro, cacti. sparse grass.
 At this cor. at apparent noon, I set off $10^{\circ} 0'$ S. on the
 decl. arc, and observe the sun on the meridian.
 The resulting lat. is $34^{\circ}55'$ N.

N. $0^{\circ} 2'$ W., bet. secs. 27 & 28.
 Over broken, hilly land. sharp, low ridges, trend ENE.
 8.20 Wash, 40 lks. wide, course NE.
 20.00 Wash, 50 lks. wide, course NE.
 39.00 Wash, 50 lks. wide, in draw 3 chs. 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,
 $\frac{1}{4}$ S. 28 in W., and
 S. 27 in E. half,
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 41.10 Road, brs. NE. & SW.
 52.00 Enter Kane Springs wash, course ESE.
 52.25 Road, course WNW. & ESE.
 63.40 Leave Kane Springs wash, course ESE.
 A spring in N. bank of wash, brs. W. 3 chs. dist.
 Asc. through dense mesquite and tesseta.
 77.60 Sharp point, brs. SSW. & NNE., 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. 18 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,
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 Land, broken, hilly.
 Soil, 2nd & 3rd rate, loose, sandy, gravelly.
 Mesquite, tesseta, greasewood, willow, cottonwood.
 Fair grass in places.

N. $89^{\circ}58'$ E., on a random line, bet. secs. 22 & 27.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.00 Intersect N. & S. line at point 5 lks. N. of cor. of
 secs. 22, 23, 26 & 27, whence I run,
 West, on a true line, bet. secs. 22 & 27.
 Over broken, hilly, mts. land, desc. SW. slope.
 31.50 Gulch, 50 lks. wide, course ESE.
 39.00 Gulch, 30 lks. wide, course ENE., asc. N. side of same.
 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 S. 27 in S. half,
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
 54.60 Top of ridge, brs. SE. & NW., desc.
 66.50 Gulch, 80 lks. wide, course SSE., asc.
 78.00 Spur, brs. S. & N., desc.
 80.00 To cor. of secs. 21, 22, 27 & 28.
 Land, mts. Soil, 3rd rate, gravelly. Few tesseta cacti.

Chains.

- N. 0° 2' W., bet. secs. 21 & 22.
Over broken, hilly land, asc.
- 20.00 Head of gulch, course SSW. asc. SW. 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. 21 in W., and S. 22 in E. half, raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 46.78 Top of low dividing ridge, brs. SE. & NW.,
- 48.00 Trail, brs. NW. & SE., desc. NE. slope.
- 51.80 Gulch 50 lks. wide, course ESE., near head, asc. along E. side of ridge.
- 65.90 Top of spur, brs. E. & W., desc.
- 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. 18 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 4 ft. base, 3 ft. high W. of cor.
- Land, mts. rough.
Soil, 3rd rate, gravelly, stony.
Palonegro, cacti. sparse grass.
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- East, on a random line, bet. secs. 15 & 22.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.04 Intersect cor. of secs. 14, 15, 22 & 23, whence I run,
- West, on a true line, bet. secs. 15 & 22.
Over mts. land, asc.
- .80 Top of long, dividing ridge, brs. SSE. & NNW. desc. steep SW. slope, to valley of Little Sandy River.
- 29.50 Foot of main slope, brs. NNW. & SSE. in road., enter valley.
- 29.50 Wire fence, brs. NNW. & SSE.
- 38.10 Wire fence, brs. NNW. & SSE.
- 40.02 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 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. A new indian settlement brs. N. 10 chs. dist., small cleared fields newly planted in barley to N. & S.
- 43.00 Middle of Wash, Little Sandy River, 4 chs. wide, course SSE., small stream of water, 10 lks. wide, 3 ins. deep.
- 50.00 Indian settlement, brs. S. 1 ch. dist. Small cleared fields to N. & S. irrigated from Sandy.
- 52.00 Leave valley, brs. S. & N., asc. prec. E. slope of bluff.
- 65.26 Top of E. rim of bluff, brs. N. & S., 800 ft. above valley. Asc. grad.
- 69.00 Top of ridge, brs. SSE. & NNW., desc. SW. slope.
- 80.04 To cor. of secs. 15, 16, 21 & 22.
Land, mts, rolling.
Soil, 2nd & 3rd rate, loose, fertile sandy loam, in valley,
Palonegro, mesquite, tesseta, willow, cacti. Good grazing.
Feb. 23, 1911.

Chains.

Feb. 24, 1911.
 At 8h a.m., l.m.t., at the cor. of secs. 15, 16, 21 & 22,
 I set off $9^{\circ}40\frac{1}{2}'$ S. on the decl. arc, and $34^{\circ}56\frac{1}{2}'$ N. on the
 lat. arc, and determine a true meridian with the solar.
 Thence I run,
 N. $0^{\circ}2'$ W., bet. secs. 15 & 16.
 Over mts. stony land, desc.
 1.00 Gulch 40 lks. wide, course SSE., asc. SW. slope.
 30.00 Top of rocky ridge, brs. SSE. & NNW., thence along stony
 E. slope of same.
 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
 $\frac{1}{4}$ S. 15 in E. half,
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 A new indian settlement, and clearing, on E. side of
 sandy wash, in valley, brs. E. about 25 chs. dist.
 42.66 Sharp spur, brs. E. & W., thence along prec. E. slope of
 bluff.
 56.30 Sharp spur, brs. E. & W., desc. steep, stony NE. slope.
 60.00 Head of gulch, course ENE.
 80.00 Foot of main slope, brs. NW. & SE.
 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. 18 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, rough, mts.
 Soil, 3rd rate, stony.
 Scattering palonegro, cacti, greasewood. Sparse grass.

East, on a random line, bet. secs. 10 & 15.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.96 Intersect N. & S. line at point 7 lks. N. of cor. of
 secs. 10, 11, 14 & 15, whence I run,
 N. $89^{\circ}57'$ W., on a true line, bet. secs. 10 & 15.
 Over mts., broken land, asc.
 1.70 Top of long ridge, brs. SSW. & NNE., desc. rough, broken
 NW. slope.
 36.50 Canyon 3 chs. wide, 100 ft. deep, course SW., asc.
 39.98 Set a granite stone 30x14x10 ins., on bed-rock, in mound
 of stone 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.
 50.00 Spur, brs. SW. & NE., near SW. point, desc.
 56.00 Foot of slope, brs. SE. & NW., enter valley, of Sandy.
 58.00 Enter Sandy wash, course SSE.
 69.00 Road, in wash, brs. S. & N. Little Sandy nearly dry here.
 75.00 Leave wash, course SSE., asc.
 79.96 To cor. of secs. 9, 10, 15 & 16.
 Land, mts., rolling.
 Soil, 2nd & 3rd rate, sandy, gravelly, stony.
 Palonegro, cacti, mesquite, tesseta. Fair grass.
 At this cor. at apparent noon, I set off $9^{\circ}38'$ S. on the
 decl. arc, and observe the sun on the meridian.
 The resulting lat. is $34^{\circ}57\frac{1}{2}'$ N.

C hains.

- N. 0° 2' W., bet. secs. 9 & 10.
Over rolling land, desc.
- 4.70 Foot of slope, brs. NW. & SE., enter Sandy wash, 8 chs. wide, course SSE.
- 22.50 Leave wash, course SSW.
- 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
 $\frac{1}{4}$ S. 10 in E. half,
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 42.00 Enter Sandy wash, 4 chs. wide, course SSE.
- 50.00 The mouth of large canyon, brs. E. 10 chs. dist., from E. West edge of valley, brs. W. 8 chs.
- 66.50 Leave sandy wash, course SSE.
- 71.40 Road, brs. NNW. & SSE.
- 77.00 Enter Sandy wash, in turn, from E., SW., and S.
- 80.00 Cor. point falls in wash. Leave mound of stone on line.
- 82.50 Leave wash, course SW.
- 83.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for witness cor. to cor. of secs. 3, 4, 9 & 10, marked on brass cap,
WC. N. of centre
T. 18 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, $1\frac{1}{2}$ ft. high W. of cor.
Land, rolling.
Soil, 2nd rate, loose, sandy.
Mesquite, tesseta, dense. growth out of wash. Grass, Fair.

- From true pt. for cor. of secs. 3, 4, 9 and 10, I run
S. 89° 57' 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 7 lks. S. of cor. of secs. 2, 3, 10 & 11, whence I run,
West, on a true line, bet. secs. 3 & 10.
Over broken, mts. land, asc.
- 1.50 Ridge, brs. SSW. & NNE., desc. steep W. slope.
- 15.73 Gulch 50 lks. wide, course SW.
- 25.30 Gulch 50 lks. wide, course SSW., asc.
- 29.30 Ridge, brs. SSW. & NNE., desc.
- 40.02 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 N. face, and
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
- 40.95 Gulch, 50 lks. wide, course S.
- 44.30 Gulch, 50 lks. wide, course SSE., asc.
- 49.40 Top of spur, brs. S. & N., desc. steep W. slope.
- 76.00 Foot of main slope, enter sandy wash, course S.
- 80.04 To ^{TRUE} cor. point of cor. of secs. 3, 4, 9 & 10.
Land, rough, broken, mts.
Soil, 3rd rate, stony.
Scattering palonegro, cacti. Good grazing.

Chains.

For cor.

- From the true point of secs. 3, 4, 9 & 10, I run,
 N. 0° 2' W., on a random line, bet. secs. 3 & 4.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.00 Intersect cor. of secs. 3, 4, 33 & 34, on N. bdy. of Tp.,
 whence I run,
 S. 0° 2' E., on a true line, bet. secs. 3 & 4.
 Over gently rolling land, desc. grad. in valley of Little
 Sandy River, through dense mesquite, tesseta, willow,
 and greasewood, loose, sandy soil.
 As point for $\frac{1}{4}$ sec. cor. will fall in Sandy wash, at
- 36.00 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 $\frac{1}{4}$ N. of centre,
 S. 4 in NW., and
 S. 3 in NE. quadrants,
 raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high W. of cor.
- 39.00 Enter wash of Sandy River, course SSE.
- 40.00 Point for $\frac{1}{4}$ sec. cor. in wash, of Sandy River, 3 chs. wide,
 course SSE.
- 44.00 Mouth of canyon brs. E. 5 chs., and also mouth of a
 large wash from the W. brs. W. 8 chs. dist.
- 51.00 Leave wash, course SSE.
- 77.00 Thence close to W. edge of wash, very dense mesquite.
- 80.00 To cor. point in wash.
 Land, rolling.
 Soil, 2nd rate, loose, sandy, very fertile, moist.
 Mesquite, tesseta, greasewood, willow, cacti. Fair grass.
 Feb. 24, 1911.

Chains	
	Feb. 25, 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 $9^{\circ}18\frac{1}{2}'$ S. on the decl. arc, and $34^{\circ}54'$ N. on the lat. arc, and determine a true meridian with the solar. Thence I run, N. $0^{\circ}2'$ W., bet. secs. 32 & 33. Over broken, heavily rolling or hilly land, drains E.
14.00	Sharp ridge, brs. ENE. & WSW.
20.00	Wash, 30 lks. wide, course ENE.
26.50	Sharp ridge, brs. ENE. & WSW.
30.50	Wash, 50 lks. wide, course ENE.
40.00	Set an iron post 3 ft. long, 1 in. in diam. 26 in s. 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.
72.40	Wash, 50 lks. wide, course ENE. Asc. SE. slope of ridge.
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, m marked on brass cap, T. 18 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, heavily rolling. Soil, 3rd rate, gravelly. Scattering mesquite, cacti. Palonegro. Good native grass.
	East, 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 9 lks. S. of cor. of secs. 27, 28, 34 & 35, whence I run, S. $89^{\circ}56'$ W., on a true line, bet. secs. 28 & 33. Over heavily rolling land. asc.
10.00	Ridge, brs. S. & N. in turn. desc. grad.
20.00	Draw, 6 chs. wide, course SW.
25.00	Spur, 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. 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.
49.30	Main road, brs. SSE. & NNW., asc. grad.
50.00	Wash 30 lks. wide, course S., turns SE. 10 chs. to S.
50.21	Old road, brs. N. & S. asc. grad.
76.00	Asc. steep SE. slope.
80.00	To cor. of secs. 28, 29, 32 & 33. Land, broken, heavily rolling. Soil, 2nd & 3rd rate, sandy, gravelly. Palonegro, few mesquite, cacti. Good native grass.
	N. $0^{\circ}2'$ W., bet. secs. 28 & 29. Over very broken land, succession of sharp ridges, trend NE., through dense palonegro, paloverde, cacti. asc.
6.00	Top of sharp ridge, brs. NE. & SW. desc.
13.00	Wash, 15 lks. wide, course NE.
20.40	Wash, 20 lks. wide, course ENE., near head. asc.
34.00	Ridge, brs. NE. & SW., desc.
38.00	Enter draw, course NE.
40.00	Cor. point for $\frac{1}{4}$ sec. cor. falls in wash, 150 lks. wide, course NE., asc.

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Chains.

42.00 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. $\frac{1}{4}$ N. of centre.
 S. 29 in NW., and
 S. 28 in NE. quadrants,
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.

45.00 Top of N. bank of draw, brs. NE. & SW.

53.00 Wash, 15 lks. wide, course NE.

58.00 Wire fence, brs. NE. & SW.

58.70 Wash, 30 lks. wide, course NE.

63.00 Ridge, brs. NE. & SW.

68.40 Wash, 15 lks. wide, course NE. desc.

72.00 Ridge, 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. 20, 21, 28 & 29, marked on brass cap,

T. 18 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, heavily rolling, broken.

Soil, 2nd rate, gravelly.

Scattering mesquite, palonegro, cacti, tesseta.

Fair grazing.

At this cor. at apparent noon I set off $9^{\circ}16'$ S. on the decl. arc, and observe the sun on the meridian.

The resulting lat. is $34^{\circ}56'$ N.

N. $89^{\circ}56'$ E., on a raddom line, bet. secs. 21 & 28.

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

80.02 Intersect N. & S. line at point 5 lks. N. of cor. of secs. 21, 22, 27 & 28, whence I run,

S. $89^{\circ}58'$ W., on a true line, bet. secs. 21 & 28.

Over broken land, desc.

1.00 Gulch, 10 lks. wide, course SSW. asc.

11.00 Spur, brs. SSW. & NNE., desc.

14.00 Draw 15 lks. wide, course SSW., Spring 4 chs. to N.

24.50 Foot of slope, enter draw, course ESE. Kane Springs wash.

38.00 Enter Kane Springs wash, course ESE., dry.

41.80 Leave wash.

42.01 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.

S. 21 in NW., and

S. 28 in SW. quadrants,

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

A willow tree 4 ins. diam. brs. $S. 80\frac{1}{2}^{\circ} E.$ 13 lks. dist., marked W.C. $\frac{1}{4}$ S. 28 B.T.

No other bearings available. Pits impracticable.

64.39 Wire fence, brs. ESE. & WNW.

66.00 Circular wooden corral 3 chs. diam. brs. N. 250 lks. dist.

71.00 Leave draw, asc. broken SE. slope.

72.43 House of Pope Fancher, brs. N. $87^{\circ}8'$ E., about 22 chs. dist.

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

Land, broken, rolling.

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

Mesquite, tesseta, willow, sage brush, greasewood.

palonegro, paloverde. Good grazing.

Chains

- N. 0° 2' W., bet. secs. 20 & 21.
Over broken, rolling land, through dense tesseta, mesquite and greasewood, in valley of Kane Springs wash.
- 2.75 Wash, 20 lks. wide, course ENE.
6.00 Point of spur, brs. ENE. & WSW.
10.00 Enter Draw, brs. SE. & NW.
31.00 Kane Springs wash, 200 lks. wide, course SE.
32.00 Leave draw, brs. SE. & NW., asc. scattering brush.
40.00 Top of broken mesa, brs. SE. & NW.
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 NW., and
S. 21 in E. half,
raise a mound of stone 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. 16, 17, 20 & 21, marked on brass cap,
T. 18 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, broken.
Soil, 3rd rate, sandy, gravelly.
Mesquite, tesseta, greasewood, willow, sage brush.
cacti. Good grazing.
-
- N. 89° 58' E., on a random line, bet. secs. 16 & 21.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
79.96 Intersect N. & S. line at point 9 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 mts. land, asc.
- 11.00 Top of ridge, brs. SSE. & NNW., desc. grad.
very broken land, drains S.
39.00 Wash, 50 lks. wide, course SSE. asc. 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. 16 in N., and
S. 21 in S. half,
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 42.60 Top of knoll, brs. N. & S., near N. end.
55.43 Road, Signal to Kingman, brs. NNW. & SSE.
59.25 Gulch 50 lks. wide, course SSE.
70.43 Gulch 100 lks. wide, 50 ft. deep, course SSE.
79.96 To cor. of secs. 16, 17, 20 & 21.
Land, rolling, mts.
Soil, 3rd rate, gravelly. dry.
Scattering mesquite, greasewood, cacti. Good native grass.
Feb. 25, 1911.

Chains.

- Feb. 26, 1911.
At 8h a.m., l.m.t., at the cor. of secs. 16, 17, 20 & 21,
I set off $8^{\circ}56'S$ on the decl. arc, and $34^{\circ}56\frac{1}{2}'N$ on the
lat. arc, and determine a true meridian with the solar.
Thence I run,
N. $0^{\circ}2'W$, bet. secs. 16 & 17.
Over rolling, broken land, asc. grad.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 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.
- 60.00 Flat ridge, brs. SE. & NW.
- 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. 18 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, rolling.
Soil, 2nd rate, gravelly.
Scattering greasewood, cacti, few mesquite. Good 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 cor. of secs. 9, 10, 15 & 16,
whence I run,
N. $89^{\circ}58'W$, on a true line, bet. secs. 9 & 16.
Over rough, mts. land, asc. steep ENE. slope.
- 20.00 Top of bluff W. side of Little sandy, brs. NNW. & SSE.,
asc. grad.
- 30.00 Top of mountain, brs. N. & S. 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. 9 in N., and
S. 16 in S. half,
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
- 50.50 Desc. steep W. slope.
- 60.00 Foot of W. slope, brs. N. & S.
- 62.15 Signal- Kingman road, brs. N. & S., in divide, N. & S.
asc. grad.
- 80.00 To cor. of secs. 8, 9, 16 & 17.
Land, mts., rolling.
Soil, 3rd rate, stony, gravelly.
Sparse palonegro, cacti. Good grass.
-
- N. $0^{\circ}2'W$, bet. secs. 8 & 9.
Over rolling land, in divide. asc. grad. open land.
- 32.50 Low divide, brs. E. & W., drainage from this point S. & N.
- 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,
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
Desc. grad., from cor.
- 68.15 Wash, 30 lks. wide, course NNE.
- 76.60 Wash, 60 lks. wide, course ENE.
- 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. 18 N., R. 13 W. in N. half,
S. 5 in NW., S. 4 in NE., S. 9 in SE. & S. 8 in SW. quad.
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
Land, rolling. Soil, 2nd rate, gravelly. Good grass.
At this cor. at noon, clouds obscure the sun.
Imp practicable to observe the lat.

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Chains.

- S. 89°58' E., on a random line, bet. secs. 4 & 9
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.04 Intersect N. & S. line at point 3 lks. N. of ^{true} cor. point of
secs. 3, 4, 9 & 10, whence I run,
N. 89°57' W., on a true line, bet. secs. 4 & 9.
Over rolling land, in valley.
- 5.00 Old road, brs. N. & S.
- 15.00 Leave valley of Little Sandy River, brs. N. & S.,
asc. SE. slope. steep and stony.
- 32.50 Top of mountain, brs. NE. & SW.
desc. grad.
- 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. 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.
- 74.00 Foot of W. slope, , brs. N. & S., asc. grad.
- 75.10 Road, Signal to Kingman, brs. N. & S.
- 77.20 Wash, 50 lks. wide, course NE.
- 80.04 To cor. of secs. 4, 5, 8 & 9.
Land, mts., rolling.
Soil, 3rd rate, stony, gravelly.
Sparse mesquite, greasewood, cacti, Fair grass in places.

- N. 0° 2' W., on a random line, bet. secs. 4 & 5.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.04 Intersect N. bdy. of Tp. at point 5 lks. W. of cor. of
secs. 4, 5, 32 & 33, whence I run,
South, on a true line, bet. secs. 4 & 5.
Over rolling, land, open grassy, drains E.
- 4.70 Wash, 50 lks. wide, course ESE.
- 23.70 Wash, 60 lks. wide, course ESE.
- 38.60 Wash, 80 lks. wide, course ESE., breaks through hill at
20 chs. to ESE.
- 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. 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.
- 49.00 Wash, 50 lks. wide, course ESE.
- 63.00 Wash, 20 lks. wide, course ESE.,
- 80.04 To cor. of secs. 4, 5, 8 & 9.
Land, rolling.
Soil, 3rd rate, gravelly, dry.
Sparse undergrowth. Good native grass.

Feb. 26, 1911.

Chains.

Feb. 27, 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 8°34' S. on the decl. arc, and 34°54' 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., hilly land, through dense cacti, palonegro.
 asc.

5.50 Top of ridge, brs. NE. & SW., desc.
 14.00 Gulch, 50 lks. wide, course ENE., asc. over rough hills.
 40.00 Top of main ridge, brs. ENE. & WSW.

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. 31 in W., and
 S. 32 in E. half,
 raise a mound of stone 2 ft. base, 1 1/2 ft. high W. of cor.
 Desc.

53.45 Wash, 50 lks. wide, course NE. asc. grad.

60.00 Flat ridge, brs. ENE. & WSW., desc.

68.00 Wash, 20 lks. wide, course ENE.

74.00 Flat ridge, brs. ENE. & WSW.

79.90 Wash, 10 lks. wide, course ENE.

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. 18 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 1/2 ft. high W. of cor.
 Land, rolling, hilly, broken.
 Soil, 2d & 3rd rate, gravelly, dry., stony.
 Scattering palonegro, dense cacti chollas. Good grass.

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

40.00 Set temp. 1/4 sec. cor.

80.04 Intersect cor. of secs. 28, 29, 32 & 33, whence I run,
 West, on a true line, bet. secs. 29 & 32.
 Over heavily rolling hilly land. asc.

6.00 Top of dividing ridge, brs. NE. & SW., desc. grad.

11.45 Head of draw, course NE., asc. grad.

22.20 Wash, 60 lks. wide, course NE. asc.

32.00 Flat ridge, brs. NE. & SW.,

40.02 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 N., and
 S. 32 in S. half,

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

58.90 Wash, 50 lks. wide, course NE.

79.90 Wash, 20 lks. wide, course NE.

80.04 To cor. of secs. 29, 30, 31 & 32.

Land, heavily rolling.
 Soil, 2nd rate, loose, sandy, gravelly.
 Palonegro, mesquite, cacti, and other brush. Good grass.

Chains.

- West, on a random line, bet. secs. 30 & 31.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.45 Intersect W. bdy. of Tp. at cor. of secs. 25, 30, 31 & 36,
 whence I run,
 East, on a true line, bet. secs. 30 & 31.
 Over broken, hilly land, through dense chollas cacti,
 scattering palonegro and tesseta. asc. grad.
 5.00 Flat ridge, brs. NE. & SW. desc. grad.
 20.00 Gulch, 80 lks. wide, course ENE. asc. grad.
 32.00 Sharp spur, brs. NE. & SW., desc.
 39.45 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
 the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 30 in N., and
 $\frac{1}{4}$ S. 31 in S. half,
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
 41.20 Enter wash, 100 lks. wide, course ENE.
 51.00 Leave wash, course ENE.
 60.00 Draw, 400 lks. wide, course NE.
 79.45 To cor. of secs. 29, 30, 31 & 32.
 Land, broken, hilly.
 Soil, 2nd & 3rd rate, gravelly, stony.
 Dense cacti chollas. Scattering palonegro, tesseta,
 Good native grass.

- N. $0^{\circ} 3'$ W., bet. secs. 29 & 30.
 Over broken, hilly, ENE. slope, through scattering
 cacti, greasewood, and palonegro. asc. grad.
 15.83 Top of flat ridge, brs. NE. & SW.
 16.20 Desc. prec. 50 ft.
 18.00 Enter broad draw, course ENE., turns NE. at 10 chs. E.
 21.07 Wash, 50 lks. wide, course ENE.
 23.00 Wash, 100 lks. wide, course ENE.
 26.00 Wash, 80 lks. wide, course ENE. turns E. and joins above.
 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
 $\frac{1}{4}$ S. 29 in E. half,
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 44.00 Leave draw, course NE., asc. grad.
 58.68 Flat ridge, brs. ENE. & WSW., desc. grad.
 62.50 Wash, 50 lks. wide, course ENE. asc.
 66.00 Ridge, brs. ENE. & WSW., spur from broken mesa. desc.
 71.75 Wash, 100 lks. wide, course ENE.
 77.00 Leave valley of broken broad draw, brs. ENE. & WSW.,
 asc. prec.
 78.00 Top of flat ridge, brs. ENE. & WSW.
 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. 18 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, very broken, hilly.
 Soil, 3rd rate, gravelly, dry.
 Scattering chollas, cacti. Greasewood, palonegro, tesseta,
 Good native grass.
 At this cor. at apparent noon I set off $8^{\circ} 31'$ S. on the
 decl. arc, and observe the sun on the meridian.
 The resulting lat. is $34^{\circ} 56'$ N.

chains.

East, on a random line, bet. secs. 20 & 29.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.00 Intersect cor. of secs. 20, 21, 28 & 29,
 whence I run,
 West, on a true line, bet. secs. 20 & 29.
 Over broken, hilly land.
 13.10 Wash, 20 lks. wide, course NE. turns nearly E.
 16.00 Leave draw, asc. grad.
 26.00 Top of flat ridge, brs. ENE. & WSW. desc. grad.
 39.00 Enter broad, draw, 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. 20 in N., and
 S. 29 in S. half,
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
 41.63 Wire fence, brs. NE. & SW., Enter pasture of Pope Fancher.
 55.00 Wash, 100 lks. wide, course NE.
 70.00 Leave draw, brs. NE. & SW., asc.
 80.00 To cor. of secs. 19, 20, 29 & 30.
 Land, broken, hilly.
 Soil, 3rd rate, gravelly, dry.
 Scattering greasewood, palonegro, tesseta.
 Good native grass.

West, on a random line, bet. secs. 19 & 30.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.41 Intersect W. bdy. of Tp. at point 5 lks. S. of cor. of
 secs. 19, 24, 25 & 30, whence I run,
 S. $89^{\circ}58'$ E., on a true line, bet. secs. 19 & 30.
 Over hilly, broken land, desc. grad. along S. slope.
 27.35 Wash, 30 lks. wide, in draw 6 chs. wide, course NE.
 39.41 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
 S. 30 in S. half,
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
 43.00 Wash, 15 lks. wide, course NE.
 56.60 Wash, 35 lks. wide, course NNE.
 79.41 To cor. of secs. 19, 20, 29 & 30.
 Land, broken, rolling, hilly.
 Soil, 3rd rate, gravelly, dry.
 Sparse cacti, tesseta, palonegro.
 Good native grass, short.

N. $0^{\circ}3'$ W., bet. secs. 19 & 20.
 Over heavily rolling land.
 16.10 Wash, 30 lks. wide, course NE. asc. grad.
 25.00 Flat ridge, brs. NE. & SW. desc. grad.
 32.70 Wash, 20 lks. wide, in draw 7 chs. 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,
 $\frac{1}{4}$ S. 19 in W., and
 S. 20 in E. half,
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 70.00 Desc. grad. into valley of Kane Springs wash.
 78.00 Middle of draw, wash, 250 lks. wide, course ESE.
 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. 18 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, rolling, broken.
 Soil, 2nd & 3rd rate, sandy, gravelly.
 Palonegro, tesseta, mesquite, willow, cacti.
 Good native grass on mesas.

Chains.

East, on a random line, bet. secs. 17 & 20 .
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.06 Intersect N. & S. line at point 7 lks. N. of cor. of
 secs. 16, 17, 20 & 21, whence I run,
 N. $89^{\circ}57'$ W., on a true line, bet. secs. 17 & 20.
 Over very broken land, loose, stony ground.
 many small gulches and ridges. trend S.
 2.00 Gulch 30 lks. wide, course SSW., near head.
 8.00 Wash, 40 lks. wide, course SSE.
 14.00 Wash, 40 lks. wide, course SSE.
 19.00 Wash, 40 lks. wide, course SSE.
 35.20 Wash, 40 lks. wide, course S.
 39.20 Middle of draw, 3 chs. wide, course S.
 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.
 51.00 Draw, 4 chs. wide, course S., covered with dense mesquite.
 60.75 S. point of sharp spur from broken mesa to N., brs. S. & N.
 68.80 Desc. abruptly 50 ft., from broken mesa.
 70.00 Enter valley of Kane Springs wash, brs. ESE. & WNW.
 80.06 To cor. of secs. 17, 18, 19 & 20.
 Land, broken.
 Soil, 3rd rate, gravelly, dry.
 Mesquite, tesseta, willow, cacti. Fair grass on mesas.
 Very dense undergrowth in draws.

N. $89^{\circ}58'$ W., on a random line, bet. secs. 18 & 19.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.35 Intersect W. bdy. of Tp. at point 14 lks. S. of cor. of
 secs. 13, 18, 19 & 24, whence I run,
 S. $89^{\circ}52'$ E., on a true line, bet. secs. 18 & 19.
 Over mts., rolling land, desc. NE. slope.
 14.00 Enter valley of Kane Springs wash., brs. ESE. & WNW.
 Desc. grad. in same. very dense mesquite willow, tesseta.
 38.00 Main washn Kane Springs, 150 lks. wide, course ESE.
 39.35 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.
 79.35 To cor. of secs. 17, 18, 19 & 20.
 Land, mts., rolling.
 Soil, 2nd & 3rd rate, stony, sandy, gravelly. loose.
 Dense mesquite, tesseta, willow, greasewood & other brush.
 Sparse grass.
 Much of the land in wash is subject to overflow in floods.
 Feb. 27, 1911.

Chains.

- Feb. 28, 1911.
At 8h a.m., l.m.t., at the cor. of secs. 17, 18, 19 & 20,
I set off $8^{\circ}11'$ S. on the decl. arc, and $34^{\circ}56\frac{1}{2}'$ 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 rolling land, in wash or draw.
- 6.00 Leave draw, thence asc. grad., along E. side of small
draw.
- 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.
- 50.00 Leave draw to W., asc.
Wash in draw, course S. parallels line 2 chs. to W.
- 80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in
the ground for cor. of secs. 7, 8, 17 & 18,
marked on brass cap,
T. 18 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, rolling, broken.
Soil, 3rd rate, gravelly.
Sparse cacti, tesseta. Good native grass on mesas.
-
- S. $89^{\circ}57'$ E., on a random line, bet. secs. 8 & 17.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.04 Intersect N. & S. line at point 7 lks. S. of cor. of
secs. 8, 9, 16 & 17, whence I run,
West, on a true line, bet. secs. 8 & 17.
Over heavily rolling land, asc. grad.
- 19.30 Flat spur, brs. SE. & NW. desc. grad.
- 36.00 Wash, 50 lks. wide, course SE., asc. grad.
- 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. 8 in N., and
S. 17 in S. half,
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
- 75.00 Desc. grad.
- 80.04 To cor. of secs. 7, 8, 17 & 18.
Land, heavily rolling.
Soil, 3rd rate, gravelly.
Sparse cacti, tesseta. Good native grass.
-
- N. $89^{\circ}52'$ W., on a random line, bet. secs. 7 & 18.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 79.22 Intersect W. bdy. of Tp. at point 3 lks. N. of cor. of
secs. 7, 12, 13 & 18, whence I run,
S. $89^{\circ}53'$ E., on a true line, bet. secs. 7 & 18.
Over heavily rolling, broken land, desc. grad.
- 14.00 Gulch, 150 lks. wide, 100 ft. deep, course ESE.
- 25.00 Gulch, 50 lks. wide, course S. Ascend.
- 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. 7 in N., and S 18 in S. half; raise a mound of
stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
- 74.00 Wash, course S.
- 79.22 The cor. of secs. 7, 8, 17 and 18.
Land, rolling, broken. Soil, 3rd rate, gravelly.
Sparse tesseta, cacti. Good native grass.
At this cor. at apparent noon I set off $8^{\circ}8\frac{1}{2}'$ S. on the
decl. arc, and observe the sun on the meridian.
The resulting lat. is $34^{\circ}57'$ N.

Chains.

- N. 0° 3' W., bet. secs. 7 & 8.
Over heavily rolling land, asc. grad.
- 11.80 Flat spur, brs. NW. & SE.
- 35.00 Head of Gulch, course WSW., 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. 7 in W., and
S. 8 in E. half,
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 41.15 Top of flat ridge dividing drainage, brs. ESE. & WNW.
- 48.00 Flat spur, brs. E. & W., desc. grad.
- 80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for cor. of secs. 5, 6, 7 & 8, marked on brass cap,
T. 18 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,
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
Land, heavily rolling.
Soil, 2nd & 3rd rate, gravelly, loose, dry.
Sparse cacti, tesseta. Good native grass.
-
- East, on a random line, bet. secs. 5 & 8.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.00 Intersect N. & S. line at point 5 lks. N. of cor. of secs. 4, 5, 8 & 9, whence I run,
N. 89° 58' W., on a true line, bet. secs. 5 & 8.
Over rolling land, drains NE.
- 20.00 Wash, 30 lks. wide, course NE., asc. grad.
- 31.00 Same wash, 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. 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.
- 80.00 To cor. of secs. 4, 5, 8 & 9.
Land, rolling.
Soil, 3rd rate, gravelly, dry.
Sparse tesseta, greasewood, cacti. Good short native grass.
-
- N. 89° 53' W., on a random line, bet. secs. 6 & 7.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 79.10 Intersect W. bdy. of Tp. at point 16 lks. N. of cor. of secs. 1, 6, 7 & 12, whence I run,
East, on a true line, bet. secs. 6 & 7.
Over heavily rolling land, desc. grad.
- 14.00 Wash, 30 lks. wide, course SE.
- 29.10 Wash, 30 lks. wide, course SE.
- 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. 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.
- 44.10 Flat ridge, brs. NW. & SE.
- 50.10 Flat spur, brs. NE. & SW., desc. grad.
- 79.10 To cor. of secs. 5, 6, 7 & 8.
Land, rolling.
Soil, 3rd rate, gravelly, dry.
Sparse cacti, tesseta, sage brush. Good native grass.

Chains.

- N. 0° 1' W., on a random line, bet. secs. 5 & 6.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.02 Intersect N. bdy. of Tp. at point 5 lks. E. of cor. of
 secs. 5, 6, 31 & 32, whence I run,
 S. 0° 3' E., on a true line, bet. secs. 5 & 6.
 Over heavily rolling land, desc. grad.
 11.00 Wash, 50 lks. wide, course SE. asc.
 19.80 Ridge, brs. ESE. & WNW., desc.
 31.00 Wash, 50 lks. wide, course ESE., asc.
 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. 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.
 41.70 Flat ridge, brs. ESE. & WNW., desc. grad.
 71.00 Wash, 50 lks. wide, course E., asc. grad.
 80.02 To cor. of secs. 5, 6, 7 & 8.
 Land, heavily rolling, hilly.
 Soil, 3rd rate, gravelly, dry.
 Sparse greasewood, tesselata, cacti, sage brush.
 Good native short grass.

Feb. 28, 1911.

— General Description of T. 18 N., R. 13 W. —

This Township is extremely rough and mountainous in the NE., and broken and rolling in the SE., SW. & NW. parts. The soil is mostly a granite gravel, sandy and loamy in the smoother portions of the Tp.

There are some good strips of bottom land along the narrow valleys of the Little Sandy River and Trout Creek, and also in Kane Springs wash, the greater portion of which could be irrigated and cultivated from the water in the Little Sandy and Trout Creek. This water flows for from 7 to 10 months of every year and in good seasons, throughout the entire year. George B. Davis occupies and cultivates about 80 acres of fine bottom land on Trout Creek, which is irrigated by small dam and ditch from Trout Creek.

J.K. Pope Fancher cultivate about 50 acres of fine sandy loam on W. side of Little Sandy River, which is irrigated from the Little Sandy.

There are also several small tracts of newly cleared land now occupied and cultivated by several small Indian settlements along the Little Sandy.

These Indians will cultivate the land tensely and more successfully than other settlers.

J.K. Pope Fancher has good substantial residence and other buildings in SW. $\frac{1}{4}$ of secs. 21, near a fine spring, This spring waters many head of cattle and also irrigates about 15 acres of land.

All of the Tp. except the extrema NE. portion, is fair grazing, and is stocked at present with as many cattle and sheep as it will well support.

There is no timber in the Tp.

Some slight indications of mineral are found in the NE. portion, but nothing that would encourage development.

Jesse B. Wright
 U. S. Surveyor.

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APPROVAL.

BOOK 2304

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix Ariz March 25, 1912

The foregoing field notes of the survey of

*the subdivisions of T18 N. R13 W,
G & R Meridian, Arizona*

executed by

Wesley D. Wright M.C. Sumner

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 J. Ingalls

U. S. Surveyor General.