

FIELD NOTES

2294

OF THE SURVEY OF THE

Subdivision Lines T. 24 N. R. 13 W.

2294

2294

Of the *G. S. R.* Meridian,

In the State of *Territory of Arizona*

EXECUTED BY

Jesse 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.

Survey commenced *Sept. 30*, 1910

Survey completed *May 18*, 1911

2294

2294

INDEX DIAGRAM.

Township _____, Range _____

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Notes: *For N. Bdy. see Book B. Group 10*

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" *D.* " " " *A* " "
 " *E. N.W. Bdry.* " " *A* " *9*

BOOK 2294

INDEX DIAGRAM.

Township 24 N, Range 13 W

6		5	31	4	29	3	27	2	26	1
	39									
32		32		30	•	29		27		25
									25	
7	31	8	30	9	28	10	26	11		12
24		24	•	18	•	14	•	10		5
18	23	17	18	16	14	15	10	14	5	13
23	•	22	•	17	•	13	•	9	•	4
19	22	20	17	21	13	22	9	23	4	24
21		21	•	16	•	12	•	8		3
30	20	29	16	28	12	27	7	26	2	25
20		19		15	•	11		6		1
31	19	32	15	33	11	34	7	35	2	36

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PRELIMINARY OATHS OF ASSISTANTS.

10 25
BOOK 2294

WE, Frank L. Crofoot, Herbert W. Worcester and Walter J. Thompson, Edgar M. Darnall,

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

Subdivisional lines embraced under "Group 9, Arizona."

Frank L. Crofoot, Chainman.

Herbert W. Worcester, Chainman.

Subscribed and sworn to before me this 30th day of September, 1910., 19

W. J. Thompson
Edgar M. Darnall
Jesse B. Wright
U.S. Transitman.



WE, James R. Smith, Bart Tyson, and, Tom Noonan, Rex Washins,

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

The subdivisional lines embraced under Group 9, Arizona.

James R. Smith, Moundman.

Bart Tyson, *Rex Washins*, Moundman.
Tom Noonan

Subscribed and sworn to before me this 30th day of September, 1910., 19

Jesse B. Wright
U.S. Transitman.



WE, Edgar Morris, and Gus Wictig,

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

The Subdivisional lines embraced under Group 9, Arizona.

Edgar Morris, Axman.

Gus Wictig, Axman.

Subscribed and sworn to before me this 30th day of September, 1910., 19

Jesse B. Wright
U.S. Transitman.



I, James Morrow, Lonie Van Marter,

do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of The Subdivisional lines embraced under Group 9, Arizona.

James Morrow
Lonie Van Marter, Flagman.

Subscribed and sworn to before me this 30th day of September, 1910., 19

Jesse B. Wright
U.S. Transitman.



Chains.

Survey commenced Oct. 14, 1910, and executed with a W. & L. E. Gurley light mountain transit, special make, unnumbered, with Burt's patent solar attachment.

Having determined the true courses and distances along the south boundary of T. 24 N., R. 13 W., and having found the south boundary out of limits in several portions, both in measurements and alinement, it is therefore necessary to run a Sectional Correction Line West through this Township from the corner of secs. 25, 30, 31 & 36 on the East boundary.

LAT. $35^{\circ}26'07''$ NLONG. $113^{\circ}36'27''$ W.

Therefore, at the cor. of secs. 25, 30, 31 & 36, on the East boundary of the Township, as recently established by me and heretofore described, I examine and test carefully all the adjustments of the transit and solar attachment, and finding same correct as to tests, in order to test the solar apparatus, by comparing the results of observations for meridians on the sun taken during a.m. & p.m. hours, with a true meridian determined by observation of Polaris, I proceed as follows:

At 5h p.m., l.m.t., at the cor. above described,

I set off $8^{\circ}3'$ S. on the decl. arc, and $35^{\circ}26'$ N. on the lat. arc, and determine a meridian with the solar, and mark the line thus determined by a cross on a stone firmly set in the ground 5 chs. N. of my station.

At 6h. 2m. p.m., l.m.t., I observe Polaris at E. elongation, in accordance with instruction in the manual, and mark the line thus determined by a tack in a stake driven firmly in the ground 5 chs. N. of my station.

Oct. 14, 1910.

Oct. 15, 1910.

At 7h a.m., l.m.t., I set off the azimuth of Polaris, $1^{\circ}26\frac{1}{2}'$ to the West, and mark the true meridian thus determined by a cross on the stone set 5 chs. N. of my station, which point falls .30 ins. E. of the line point as determined by the solar apparatus on preceding evening.

At 8h a.m., l.m.t., I set off $8^{\circ}19'$ S. on the decl. arc, and $35^{\circ}26'$ N. on the lat. arc, and determine a meridian with the solar, and mark the line thus determined by a cross on the stone set 5 chs. N. of my station, which point falls .20 ins. E. of the point in the true meridian as determined by observation of Polaris. The solar apparatus, by p.m. & a.m. observations, defines positions for meridians about $16''$ W., and $11''$ E. respectively, of the true meridian determined by Polaris observation, therefore from these observations I conclude that the adjustments of the instrument are satisfactory.

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.

By this meridian, I also test the line of the East Boundary of the Tp., by means of flags which I have left on the corners thereon, and find that according to this meridian the East Bdy. brs. N. $0^{\circ}0'30''$ W. This error being probably the usual error of observation, I consider this line sufficiently accurate.

From the corner above described, I run, West, bet. secs. 25 & 36, on Sectional Correction Line.

Over rolling stony mesa, through heavy cedar timber.
40.00 Set a granite stone $24 \times 15 \times 10$ 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 N. of cor., from which, A cedar tree 10 ins. diam. brs. S. $10\frac{1}{2}^{\circ}$ E. 169 lks. dist., marked $\frac{1}{4}$ S. 36 B.T.
A cedar tree 6 ins. diam. brs. N. 60° W. 22 lks. dist., marked $\frac{1}{4}$ S. 25 B.T.

Impracticable to transport and set iron posts.

Chains.

- 52.00 Head of draw, course S.
 60.30 Small drain, 10 lks. wide, course SE., asc.
 70.00 Top of knoll, brs. N. & S., desc.
 80.00 On N. rim of mesa, brs. NE. & SW., I.
 Set a limestone 24x15x10 ins. on bed-rock, in mound of stone 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., from which,
 A cedar tree 10 ins. diam. brs. S. 66½° E. 107 lks. dist., marked T. 24 N., R. 13 W. S. 36 B.T.
 A cedar tree 12 ins. diam. brs. S. 16½° W. 173 lks. dist., marked T. 24 N., R. 13 W. S. 35 B.T.
 Land rolling, high mesa, almost inaccessible.
 Soil, 3rd rate, gravelly, stony.
 Timber, cedar.
 Undergrowth, cedar, scrub oak, cacti.
-
- S. 0° 1' E., bet. secs. 35 & 36,
 Over stony mesa, asc. grad. through dense cedar.
 17.00 Top of rise, desc.
 21.50 Desc. abruptly 80 ft., S. rim of mesa, brs. N. 70° E. & S. 70° W. thence desc. prec. S. slope. barren granite ledges.
 35.00 Foot of steep slope, brs. E. & W., desc. grad.
 40.00 Set a granite stone 24x12x8 ins. 18 ins. in 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.
 No bearings available.
 47.00 Wright's canyon, wash 150 lks. wide, course WSW., asc.
 50.00 Asc. prec. NW. slope.
 80.60 Intersect S. bdy. of Tp. at point 90 lks. S. 89° 29' E. of cor. of secs. 35, 36, 1 & 2,, which corner I change to refer to secs. 1 & 2, T. 23 N., R. 13 W., only, and at intersection I set a granite stone 24x15x10 ins. on bed-rock, in mound of stone for closing cor. of secs. 35 & 36, marked C.C. on N., with 1 groove on E. and 5 grooves on W. faces, and raise a mound of stone 2 ft. base, 1½ ft. high, N. of cor. No bearings available.
 Land, mts. rolling.
 Soil, 3rd rate, stony.
 Timber, some cedar, few pinon.
 Undergrowth, cedar, pinon, cacti. Fair grazing on mesa.
 At this cor., at noon, ~~± m.t.~~, I set off 8° 24' S. on the decl. arc, and observe the sun on the meridian.
 The resulting lat. is 35° 25' N.
-
- N. 0° 1' W., bet. secs. 25 & 26.
 Over very rough, broken stony land.
 1.00 Desc. abrupt 80 ft., thence desc. prec. NW. slope.
 9.00 Telegraph line, brs. NE. & SW.
 12.88 A.T. & S.F.R.R., brs. NE. & SW. on sharp curve to SE. & SW.
 14.53 Wire fence, brs. E. & W.
 22.33 Wire fence, brs. NW. & SE.
 25.00 A.T. & S.F.R.R., brs. SSE. & NNW., on curve.
 26.00 Telegraph line, brs. NW. & SE.
 33.00 Desc. abruptly 30 ft., spring at bottom of bluff, on line.
 40.00 Set an iron post 3 ft. long, 1 in. diam. 26 ins. in ground for ¼ sec. cor. marked on brass cap,
 S. 26 ¼ in W., and
 S. 25 in E. half, and
 raise a mound of stone 2 ft. base, 1½ ft. high, W. of cor. cor. in small flat, 4 chs. wide, brs. N. & S.
 43.00 Asc. prec. barren ledge.
 47.00 Top of rocky point, brs. NW. & SE.
 49.00 Desc. abruptly 50 ft.
 50.00 Foot of bluff, brs. NE. & SW.
 51.10 Wire fence, brs. E. & SW.
 52.77 A.T. & S.F.R.R., brs. E. & SW., on curve.
 54.00 Truxton Canyon, 80 lks. wide, course WSW.
 Asc. prec. SE. slope.
 62.00 Top of E. pt. of spur, brs. SE. & NW., desc.

Subdivision of T. 24 N., R. 13 W.

Chains.

74.00 Gulch 30 lks. wide, course SE., asc.
 80.00 Set an iron post, 3 ft. long 2 ins. in diam. 24 ins. in the ground for cor. of secs. 23, 24, 25 & 26, marked on brass cap,
 T. 24 N., R. 13 W. in N. half,
 S. 24 in NE.,
 S. 25 in SE.,
 S. 26 in SW., and
 S. 23, in NW. quadrants, and
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor., from which,
 A cedar tree 15 ins. diam. brs. N. 74° E. 145 lks. dist., marked T. 24 N., R. 13 W. S. 24 B.T.
 A cedar tree 15 ins. diam. brs. S. 72° W. 131 lks. dist., marked T. 24 N. R. 13 W. S. 26 B.T.
 No other bearings available.
 Land, mts. very rough and broken.
 Soil, 3rd rate, stony.
 No timber.
 Undergrowth, scattering cedar, cacti.

Oct. 15, 1910.

Oct. 17, 1910.

At 7h a.m., l.m.t. at the cor. of secs. 23, 24, 25 & 26, I set off $9^{\circ} 0'$ S. on the decl. arc, and $35^{\circ} 27'$ N. on the lat. arc, and determine a true meridian with the solar, thence I run,
 East, on a random line, bet. secs. 24 & 25.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.00 Intersect cor. of secs. 19, 24, 25 & 30, on E. bdy. of Tp., whence I run,
 West, on a true line bet. secs. 24 & 25.
 Over mts. land, desc. NW. slope.
 10.00 Old road, and telegraph line, brs. NE. & SW.
 12.00 Truxton wash, 100 lks. wide, course WSW.
 13.76 Wire fence, brs. NE. & SW.
 14.77 A. T. & S.F.R.R., brs. N. $49^{\circ} 33'$ E. & S. $49^{\circ} 33'$ W.
 15.20 Telegraph line, brs. NE. & SW. parallel to R.R.
 17.10 Wire fence, brs. NE. & SW. " "
 20.44 Dim road, brs. NE. & SW.
 Asc. grad. along stony SE. slope.
 40.00 Set an iron post 3 ft. long, 1 in. diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap,
 S. 24 $\frac{1}{4}$ in N., and
 S. 25 in S. half, and,
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor., from which,
 A cedar tree 14 ins. diam. brs. S. 45° W. 121 lks. dist., marked $\frac{1}{4}$ S. 25 B.T.
 54.00 Top of rise, brs. NE. & SW. thence along stony N. slope.
 70.00 Desc. NW. slope.
 75.00 Gulch 30 lks. wide, course SW. near head.
 78.12 Gulch 50 lks. wide, course SSW. asc.
 80.00 To cor. of secs. 23, 24, 25 & 26.
 Land, mts., rolling.
 Soil, stony gravelly, 3rd rate.
 No timber.
 Undergrowth, scattering cedar. Fair grazing.

- Chains
- N. 0° 1' W., bet. secs. 23 & 24.
Over mts. land, asc.
 - 18.00 Top of hill, brs. E. & W., desc.
 - 31.44 Road, brs. E. & W.
 - 37.68 Wash 10 lks. wide, in broad green draw, drains 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, S. 23 $\frac{1}{4}$ in W., and S. 24 in E. half, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. No bearings available.
 - 40.10 Wash, 15 lks. wide, course SE.
 - 53.70 Wash, 30 lks. wide, course SE.
 - 58.95 Road, brs. NE. & SW.
 - 65.00 Wash, 30 lks. wide, course SSE.
 - As cor. point will fall in wash, at
 - 78.00 Set an iron post 3 ft. long 2 ins. diam. 24 ins. in the ground for witness cor. to cor. of secs. 13, 14, 23 & 24 marked on brass cap.
W.C.S. of centre,
T. 24 N., R. 13 W. in N. half,
S. 13 in NE.,
S. 24 in SE.,
S. 23 in SW., and
S. 14 in NW. quadrants, and
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. from which,
A cedar tree 10 ins. diam. brs. S. $16\frac{1}{2}$ ° E. 167 lks. dist., marked T. 24 N., R. 13 W. S. 24 W.C.B.T.
 - 80.00 Cor. point in wash 180 lks. wide, course SSE.
Land, mts., rolling.
Soil, 2nd & 3rd rate, gravelly, stony.
No timber.
Undergrowth, few cedars. Fair grazing.
At this cor. at noon, ~~1 m.t.~~, I set off 9° 8' S. on the decl. arc, and observe the sun on the meridian.
The resulting latitude is 35° 27 $\frac{1}{2}$ ' N.

 - From the ^{true} cor. point of secs. 13, 14, 23 & 24, I run, East, on a random line bet. secs. 13 & 24.
 - 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 - 79.96 Intersect E. bdy. of Tp. at point 5 lks. S. of cor. of secs. 13, 18, 19 & 24, whence I run, S. 89° 58' W., on a true line bet. secs. 13 & 24.
Over rolling land. desc. grad.
 - 10.00 Middle of draw, 20 chs. wide, course S.
 - 20.00 Asc. grad.
 - 35.00 Low ridge, 50 ft. high, brs. N. & S., desc. grad.
 - 39.96 Set an iron post, 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, S. 13 $\frac{1}{4}$ in N., and S. 24 in S. half, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor. No bearings available.
 - 44.00 Wash 50 lks. wide, course SSW.,
 - 48.50 Wash 50 lks. wide, course S.
 - 68.30 Wash 30 lks. wide, course S.
 - 69.10 Road, brs. NE. & SW.
 - 79.96 To cor. point of secs. 13, 14, 23 & 24., in wash.
Land, rolling.
Soil, 2nd & 3rd rate, sandy, gravelly.
No timber or undergrowth, fair grazing.

Subdivision of T. 24 N., R. 13 W.

Chains.

- N. 0° 1' W., bet. secs. 13 & 14.
Over heavily rolling land, asc. grad. in wash.
- 3.00 Leave wash, runs SSE.
- 28.60 Wash 50 lks. wide, course SE.
- 37.00 Same 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, S. 14 $\frac{1}{4}$ in W., and S. 13 in E. half, and raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high W. of cor.
- 40.50 Same wash as above, course SSE.
- 57.40 Same wash as above, course SSW.
- 80.00 Set an iron post 3 ft. long 2 ins. in diam. 24 ins. in the ground for cor. of secs. 11, 12, 13 & 14, marked on brass cap, T. 24 N., R. 13 W. in N. half, S. 12 in NW., S. 13 in SE., S. 14 in SW., and S. 11 in NW. quadrants, and raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high W. of cor., from which,
A cedar tree 6 ins. diam. brs. S. 31° E. 42 lks. dist., marked T. 24 N., R. 13 W. S. 13 B.T.
A cedar tree 6 ins. diam. brs. S. 32° W. 70 lks. dist., marked T. 24 N., R. 13 W. S. 14 B.T.
No other bearings available.
Land, rolling.
Soil, 2nd & 3rd rate, gravelly.
No timber.
Undergrowth, scattering cedar, cacti. Good grazing.

- N. 89° 58' E., on a random line, bet. secs. 12 & 13.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 79.90 Intersect E. bdy. of Tp. at point 5 lks. N. of cor. of secs. 7, 12, 13 & 18, whence I run, West, on a true line, bet. secs. 12 & 13.
Over rolling land, desc. grad.
- 23.86 Road, brs. NE. & SW.
- 31.90 Wash, 80 lks. wide, course SSE.
- 39.95 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, S. 12 $\frac{1}{4}$ in N. and S. 13 in S. half, and raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high N. of cor. from which,
A cedar tree 15 ins. diam. brs. S. 36° E. 283 lks. dist., marked $\frac{1}{4}$ S. 13 B.T.
A cedar tree 15 ins. diam. brs. N. 9° W. 105 lks. dist., marked $\frac{1}{4}$ S. 12 B.T.
- 47.65 Road, brs. N. & S.
- 78.00 Wash 50 lks. wide, course SSE.
- 79.90 To cor. of secs. 11, 12, 13 & 14.
Land, rolling.
Soil, 2nd & 3rd rate, gravelly.
No timber, few scattering cedars. Fair grazing.

Oct. 17, 1910.

Chains.

Oct. 18, 1910.

At 7h a.m., l.m.t., at the cor. of secs. 25, 26, 35 & 36, I set off $9^{\circ}21'S.$ on the decl. arc, and $35^{\circ}26'N.$ on the lat. arc, and determine a true meridian with the solar.

Thence I run,

West, bet. secs. 26 & 35, on Sectional Correction Line.
Over rough mts. land.

- 0.50 Desc. abruptly 80 ft., thence desc. prec. NW. slope, over barren granite ledges and boulders.
- 16.00 Foot of bluff, thence line runs parallel to railroad line which is about 50 lks. North.
- 25.00 Asc. abrupt 50 ft.
- 28.00 Top of N. pt. of bluff, R.R. line is about 4 chs. to N.
- 29.00 Desc. abrupt 50 ft.
- 31.20 Telegraph line, brs. NW. & SE.
- 33.00 A.T. & S.F.R.R., on curve, brs. NE. & SW.
- 34.00 Telegraph line, brs. NE. & SW.
- 36.00 Truxton Canyon, 150 lks. wide, course WSW.
- 39.60 Wire fence, brs. NW. & SE., enter flat.
- 40.00 Set an iron post 3 ft. long, 1 ins. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap.
S. 26 $\frac{1}{4}$ in N. and
S. 35 in S. half, and
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
No bearings available.
Cor. is in flat 8 chs. N. & S. by 14 chs. E. & W.
- 50.00 Leave flat, asc. prec.
- 59.40 Top of bluff, brs. NE. & SW.
- 72.00 Desc. steep, stony W. slope.
- 76.00 Picket fence, brs. N. & S., enter garden of T. J. Walters, extend S. 2 chs. and N. 12 chs.
- 77.32 Fence, brs. N. & S., leave garden.
- 78.00 Crozier canyon, wash, 150 lks. wide, course S.,
- 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. 24 N., R. 13 W. in N. half,
S. 26 in NE.,
S. 35 in SE.,
S. 34 in SW., and
S. 27 in NW. quadrants, and
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. from which,
A hackberry tree 10 ins. diam. brs. S. $50\frac{1}{2}^{\circ}E.$ 75 lks. dist., marked T. 24 N., R. 13 W. S. 35 B.T.
No other bearings available.
- At this cor., at noon, l.m.t., I set off $9^{\circ}30'S.$ on the decl. arc, and observe the sun on the meridian.
The resulting latitude is $35^{\circ}26'N.$

Chains.

S. 0° 1' E., bet. secs. 34 & 35.
 Over rolling valley, scattering mesquite.
 3.00 Crozier wash, 150 lks. wide, course SSW. asc.
 5.20 W. point of rocky spur, brs. W. & E., desc.
 8.00 Floor, and desc. grad. in valley.
 12.00 Crozier wash, 150 lks. wide, course SSE, thence in wash.
 20.00 Leave wash, runs SSE.
 27.25 Road, brs. SSE. & NNW.
 32.70 Stony wash, 80 lks. 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,
 S. 34 $\frac{1}{4}$ in W., and
 S. 35 in E. half, and
 raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high N. of cor.
 42.75 Wash, 30 lks. wide, course SE.
 64.00 Leave valley, asc. steep, stony NE. slope of spur.
 over huge granite boulders.
 75.00 Top, and along steep E. slope.
 80.00 Intersect S. bdy. of Tp. at a point 142 lks. S. 88° 34' E. of cor. of secs. 2, 3, 34 & 35, which cor. I change to refer to secs. 2 & 3 of T. 23 N., R. 13 W., only, and at point of intersection I
 Set an iron post, 3 ft. long 2 ins. diam. 24 ins. in the ground for closing cor. of secs. 34 & 35, marked on brass cap,
 C.C. N. of centre,
 T. 24 N., R. 13 W. in N. half,
 S. 35. in NE.,
 S. 2 in SE.,
 S. 3 in SW., and
 S. 34 in NW. quadrants, and
 raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high N. of cor.
 No bearings available.
 Land, rolling, mts.
 Soil, 2nd 3rd & 4th rate, gravelly, stony.
 No timber.
 Undergrowth, mesquite, tesseta, and other brush.

N. 0° 1' W., bet. secs. 26 & 27.
 Over rolling, or broken land, asc. grad. in valley of Crozier wash.
 2.25 Road, brs. NE. & SW.
 4.60 Road, in wash, brs. SSE. & NNW. Small stream of water.
 5.00 Stone fence, brs. NNW. & SSE. enter garden of T.J. Walters.
 7.84 Fence, brs. E. & W. enter yard.
 8.60 House of T.J. Walters, brs. E. 50 lks. dist.
 9.30 Fence, brs. NE. & SW.
 10.35 Road, brs. NE. & SW.
 13.00 Crozier wash, 150 lks. wide, course SSW., asc.
 18.00 Top of mesa, brs. NE. & SW.
 23.00 Desc. grad.
 39.00 Set an iron post 3 ft. long 1 ins. in diam. 26 ins. in the ground for witness cor. to $\frac{1}{4}$ sec. cor., marked on brass cap,
 W.C. $\frac{1}{4}$ in S. half,
 S. 26 in SE., and S. 27 in SW. quadrants, and raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high W. of cor., from which,
 A cedar tree 10 ins. diam. brs. S. 30° E. 196 lks. dist., marked $\frac{1}{4}$ S. 26 W.C.B.T.
 A cedar tree 10 ins. diam. brs. S. 32° W. 84 lks. dist., marked $\frac{1}{4}$ S. 27 W.C.B.T.
 40.00 Cor. point for $\frac{1}{4}$ sec. cor. falls in wash.
 40.20 Middle of wash 80 lks. wide, course SSE.
 43.20 Road, brs. NNW. & SSE.
 59.20 Wash, 80 lks. wide, course SSW.
 77.85 Wire fence, brs. NE. & W. asc. steep SW. slope.

Chains.

80.00 Set an iron post 3 ft. long 2 ins. diam. 24 ins. in the ground for cor. of secs. 22, 23, 26 & 27, marked on brass cap,
 T. 24 N., R. 13 W. in N. half,
 S. 23 in NE.,
 S. 26 in SE.,
 S. 27 in SW., and,
 S. 22 in NW. quadrants, and
 raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
 No bearings available.

Oct. 18, 1910.

Oct. 19, 1910.

At 7h a.m., l.m.t., at the cor. of secs. 22, 23, 26 & 27, I set off 9° 43' S. on the decl. arc, and 35° 27' N. on the lat. arc, and determine a true meridian with the solar. Thence, I run,

- East, on a random line, bet. secs. 23 & 26.
 40.00 Set temp. ¼ sec. cor.
 79.96 Intersect cor. of secs. 23, 24, 25 & 26, whence I run, West, on a true line bet. secs. 23 & 26.
 Over mts. land, asc. steep stony SE. slope.
 5.50 Spur, brs. S. & N., desc.
 9.15 Gulch 50 lks. wide, course SSE. asc.
 16.90 Spur, brs. NE. & SW.
 27.60 Ridge, brs. N. & S., desc.
 39.98 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for ¼ sec. cor. marked on brass cap,
 S. 23 ¼ in N., and
 S. 26 in S. half, and
 raise a mound of stone 2 ft. base, 1½ ft. high N. of cor. from which,
 A cedar tree 6 ins. diam. brs. S. 30° E. 21 lks. dist., marked ¼ S. 26 B.T.
 Cor. of pasture fence of T.J. Walters, brs. S. 150 lks., fence runs SE. & W. from fence cor.
 56.50 Road, brs. NE. and SW,
 cor. of wire fence is S. 4 chs. dist, fence runs SW. and E. from cor.
 57.60 Gulch 50 lks. wide, course SW.
 63.43 Wash 30 lks. wide, course S. asc. steep E. slope.
 75.00 Top of rocky spur, brs. S. & N. desc. steep.
 79.96 To cor. of secs. 22, 23, 26 & 27.
 Land, Mts. rolling.
 Soil, 3rd rate, stony, gravelly.
 No timber.
 Undergrowth, scattering cedar, cacti. Fair grazing.

- Chains .
N. 0° 1' W., bet. secs. 22 & 23.
Over. mts. land, asc., very stony ground along SW. slope.
- 6.00 Top of rock point, at foot of bluff, faces W., brs. N. & S.
Thence along prec. W. slope.
- 12.00 Asc. steep, stony SW. slope.
- 26.00 Top of ridge, brs. SSE. & NNW. desc. through scattering cedar.
- 40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
S. 22 $\frac{1}{4}$ in W., and
S. 23 in E. half, from which,
A cedar tree 6 ins. diam. brs. S. 57° E. 158 lks. dist.,
marked $\frac{1}{4}$ S. 23 B.T.
A cedar tree 6 ins. diam. brs. N. 66° W. 26 lks. dist.,
marked $\frac{1}{4}$ S. 22 B.T.
- 44.00 Asc. SE. slope.
- 52.00 Top of ridge, brs. N. & S. SW., same as above ridge.,
asc. grad. on same.
- 70.00 Desc. ENE. slope .
- 80.00 Set an iron post 3 ft. long 2 ins. in diam. 24 ins. in the ground for cor. of secs. 14, 15, 22 & 23,
marked on brass cap,
T. 24 N., R. 13 W. in N. half, and
S. 14 in NE.,
S. 23 in SE.,
S. 22 in SW.; and
S. 15 in NW. quadrants, from which,
A cedar tree 10 ins. diam. brs. N. 69° E. 78 lks. dist.,
marked T. 24 N., R. 13 W. S. 14 B.T.
A cedar tree 10 ins. diam. brs. S. 61° E. 179 lks. dist.,
marked T. 24 N., R. 13 W. S. 23 B.T.
A cedar tree 6 ins. diam. brs. S. 48° W. 78 lks. dist.,
marked T. 24 N., R. 13 W. S. 22 B.T.
A cedar tree 10 ins. diam. brs. N. 36° W. 18 lks. dist.,
marked T. 24 N., R. 13 W. S. 15 B.T.
- Land, mts., hilly.
Soil 3rd rate, stony.
No timber.
Undergrowth, cedar, palonegro. Fair grazing. ✓
At this cor. at noon, l.m.t., I set off 9° 52' S. on the
dec. arc and observe the sun on the meridian.
The resulting lat. is 35° 23' N. ✓
-
- East, 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. S. of cor. of
secs. 13, 14, 23 & 24, whence I run,
S. 89° 23' W., on a true line, bet. secs. 14 & 23.
Over rolling land, asc. grad. through scattering cedar.
- 30.00 Foot of broken E. slope, brs. NNE. & SSW., asc. grad.
- 39.95 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
S. 14 $\frac{1}{4}$ in N., and
S. 23 in S. half, from which,
A cedar tree 10 ins. diam. brs. N. 75° E. 51 lks. dist.,
marked $\frac{1}{4}$ S. 14 B.T.
A cedar tree 10 ins. diam. brs. S. 20° W. 104 lks. dist.,
marked $\frac{1}{4}$ S. 23 B.T.
- 50.55 Gulch 40 lks. wide, course SE., asc. road
- 61.20 Old wood road; on spur, brs. SE. & NW. thence along S. slope.
- 79.90 To cor. of secs. 14, 15, 22 & 23.
Land, rolling, hilly.
Soil, 2nd rate, gravelly.
Timber, some cedar.
Undergrowth, cedar, , scattering cacti. Good grazing.

Chains.	
	N. 0° 1' W., bet. secs. 14 & 15. Over mts. land, asc. through dense cedar.
14.00	Top of ridge, brs. NNW. & SSW. in turn. Desc. grad. on same.
36.00	Desc. NE. slope.
40.00	Set an iron post 3 ft. long 1 in. in diam. 12 ins. in ground to bed-rock, in mound of stone for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 15 in W., and S. 14 in E. half, and raise a mound of stone 2 ft. base, $\frac{1}{2}$ ft. high W. of cor., from which, A pinon tree 10 ins. diam. brs. S. 59° W. 45 lks. dist., marked $\frac{1}{4}$ S. 15 B.T. A cedar tree 6 ins. diam. brs. N. 70° E. 41 lks. dist., marked $\frac{1}{4}$ S. 14 B.T.
44.00	Gulch 40 lks. wide, course SE., asc.
72.00	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. 10, 11, 14 & 15, marked on brass cap, T. 24 N., R. 13 W. in N. half, S. 11 in NE., S. 14 in SE., S. 15 in SW., and S. 10 in NW., quadrants, from which, A cedar tree 10 ins. diam. brs. N. 62 $\frac{1}{2}$ ° E. 87 lks. dist., marked T. 24 N., R. 13 W. S. 11 B.T. A cedar tree 10 ins. diam. brs. S. 46° E. 77 lks. dist., marked T. 24 N., R. 13 W. S. 14 B.T. A cedar tree 14 ins. diam. brs. S. 64 $\frac{1}{2}$ ° W. 147 lks. dist., marked T. 24 N., R. 13 W. S. 15 B.T. A cedar tree 6 ins. diam. brs. N. 42 $\frac{1}{2}$ ° W. 20 lks. dist., marked T. 24 N., R. 13 W. S. 10 B.T.
	Land, mts., rolling. Soil, 2nd & 3rd rate, gravelly, stony. Timber, scattering cedar. Undergrowth, cedar, alongro, cacti. Good grass.
40.00	N. 89° 59' W., over a random line, bet. secs. 11 & 14. Set temp. $\frac{1}{4}$ sec. cor.
79.34	Intersect N. & S. line, at point 7 lks. N. of cor. of secs. 11, 12, 13 & 14, whence I run, N. 89° 59' W., on a true line, bet. secs. 11 & 14. Over broken mts. land. asc.
25.10	Flat ridge, brs. S. & N., desc.
33.90	Wash 20 lks. wide, course S., asc.
39.92	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, S. 11 $\frac{1}{4}$ in N. and S. 14 in S. half, from which, A cedar tree 6 ins. diam. brs. N. 35 $\frac{1}{2}$ ° E. 79 lks. dist., marked $\frac{1}{4}$ S. 11 B.T. A cedar tree 14 ins. diam. brs. S. 32° E. 32 lks. dist., marked $\frac{1}{4}$ S. 14 B.T.
42.00	Top of ridge, brs. S. & N., desc.
48.00	Gulch 30 lks. wide, course S., asc.
55.00	Spur, brs. S. & N., desc.
59.70	Gulch 30 lks. wide, course SSE., asc. at head.
65.00	Spur, brs. S. & N., desc.
76.00	Gulch 30 lks. wide, course SSE., asc.
79.34	To cor. of secs. 10, 11, 14 & 15. Land, mts., broken. Soil, 3rd rate, gravelly. Timber, scattering cedar, Undergrowth, cedar, pinon, scrub oak. Fair grazing.

Oct. 19, 1910.

Chains.

Oct. 20, 1910.
 At 8h a.m., l.m.t., at the cor. of secs. 26, 27, 34 & 35,
 I set off $10^{\circ} 9'$ S. on the decl. arc, and $35^{\circ} 26'$ N. on the
 lat. arc, and determine a true meridian with the solar.
 Thence I run,
 West, bet. secs. 27 & 34, on Sectional Correction Line.
 Over broken land, asc.
 2.00 Road, brs. NNE. & SSW.
 18.00 Old road, brs. NW. & SE.
 20.00 Rocky knoll, brs. E. & W.
 26.70 Old road, brs. NE. & SW.
 34.75 Gulch 30 lks. wide, course SE., asc. steep.
 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,
 S. 27 $\frac{1}{4}$ in N., and
 S. 34 in S. half, and
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
 43.00 Top of barren rocky spur, brs. S. & N., desc.
 48.00 Desc. prec.
 55.00 Gulch 30 lks. wide, course SSE., near head, asc. steep.
 58.00 Top of rocky spur, brs. S. & N., desc. steep.
 63.50 Foot of slope, NW. & SE., enter wash, course ESE.
 76.00 Leave wash from WSW., asc. SE. slope.
 80.00 Set a granite stone 24x14x12 ins. 18 ins. in the ground for
 cor. of secs. 27, 28, 33 & 34, marked with 3 notches on E.
 and 1 notch on S. edges, and raise a mound of stone, 2
 ft. base, $1\frac{1}{2}$ ft. high W. of cor., from which,
 A cedar tree 10 ins. diam. brs. N. 41° W. 65 lks. dist.,
 marked T. 24 N., R. 13 W. S. 28 B.T.
 A cedar tree 10 ins. diam. brs. N. 56° E. 54 lks. dist.,
 marked T. 24 N., R. 13 W. S. 27 B.T.
 No other bearings available.
 Land, broken, mts.
 Soil, 3rd rate, stony.
 No timber.
 Undergrowth, palonegro, cedar, cacti. Fair grazing.

S. $0^{\circ} 2'$ E., bet. secs. 33 & 34.
 Over mts. land, desc.
 4.00 Wash, 120 lks. wide, course E. asc.
 8.00 Asc. prec. N. slope.
 14.00 Asc. abrupt 60 ft..
 15.00 Top of mesa, brs. E. & W., 400 ft. above sec. cor.
 32.00 S. rim of mesa, brs. E. & W. Ends 20 chs. to E., Desc. prec.
 40.00 On steep S. slope,
 Set a sandstone 24x14x10 ins. on bed-rock, in mound of
 stone 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.
 60.00 Foot of steep slope, brs. E. & W.,
 65.00 Gulch 100 lks. wide, course E., asc.
 78.65 Intersect S. bdy. of Tp. at point 150 lks. S. $38^{\circ} 18'$ E. of cor.
 of secs. 3, 4, 33 & 34, heretofore described.
 I change the marking of this cor. to refer to secs. 3 & 4
 of T. 23 N., R. 13 W., only, and at point of intersection,
 Set a granite stone 20x10x10 ins. 15 ins. in the ground for
 closing cor. of secs. 33 & 34, marked C.C. on N., with
 3 grooves on E. & W. face, and raise a mound of stone, 2
 ft. base, $1\frac{1}{2}$ ft. high N. of cor. No bearings available.
 At this cor. at noon, l.m.t., I set off $10^{\circ} 13'$ S. on the
 decl. arc, and observe the sun on the meridian.
 The resulting lat. is $35^{\circ} 25'$ N.
 Land, mts. broken. very rough.
 Soil, 3rd rate, stony.
 No timber.
 Undergrowth, scattering cedar, cacti.

- N. 0° 2' W., bet. secs. 27 & 28.
 Over mts. land, asc. steep, stony SE. slope.
- 29.00 Top, thence along steep E. slope.
 Point of bluff 2 chs. W., faces SW, rim runs NE. & W.
- 35.35 Top of S. rim of mesa, brs. E. & W. 500 ft. above sec. cor.
 Canyon heads 4 chs. E. & runs SSE.
 Thence over high rolling mesa, through cedar timber.
- 40.00 Set a granite stone 20x10x10 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., from which,
 A cedar tree 10 ins. diam. brs. S. 17 $\frac{1}{2}$ ° E. 80 lks. dist.,
 marked $\frac{1}{4}$ S. 27 B.T.
 A cedar tree 10 ins. diam. brs. S. 29 $\frac{1}{2}$ ° W. 135 lks. dist.,
 marked $\frac{1}{4}$ S. 23 B.T.
- 50.00 East end of mesa brs. E. about 80 chs. distance.
- 79.00 NE. rim of mesa, brs. NW. and SE., desc.
- 80.00 Set an iron post 3 ft. long, 2 ins. diam., on bed-rock, in
 mound of stone for cor. of secs. 21, 22, 27 & 23,
 marked on brass cap,
 T. 24 N., R. 13 W. in N. half,
 S. 22 in NE.,
 S. 27 in SE.,
 S. 23 in SW., and
 S. 21 in NW. quadrants, and from which,
 A cedar tree 20 ins. diam. brs. N. 62 $\frac{1}{2}$ ° E. 136 lks. dist.,
 marked T. 24 N., R. 13 W. S. 22 B.T.
 A cedar tree 15 ins. diam. brs. S. 56 $\frac{1}{2}$ ° E. 77 $\frac{1}{2}$ lks. dist.,
 marked T. 24 N., R. 13 W. S. 27 B.T.
 A cedar tree 12 ins. diam. brs. S. 57° W. 149 lks. dist.,
 marked T. 24 N. R. 13 W. S. 23 B.T.
 A cedar tree 10 ins. diam. brs. N. 24 $\frac{1}{2}$ ° W. 58 lks. dist.,
 marked T. 24 N., R. 13 W. S. 21 B.T.
- Land, mts. rolling.
 Soil, 3rd rate, stony.
 No timber. Undergrowth, cedar, palonegro. Fair grass.
-
- East, on a random line, bet. secs. 22 & 27.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.00 Intersect N. & S. line at pt. 2 lks. N. of cor. of secs.
 22, 23, 26 & 27, whence I run,
 N. 89° 59' W., on a true line bet. secs. 22 & 27.
 Over mts. stony land, desc.
- 1.00 Wire fence, brs. N. & S.
- 2.50 Crozier canyon 100 lks. wide, course S.
 Small stream of permanent water 5 lks. wide, 2 ins. deep.
- 5.00 Wire fence, brs. SSE. & NNW., asc. prec. SE. slope.
- 12.00 Top of S. pt. of spur, brs. S. & N., desc.
 Round gravelly flat brs. S. about 15 chs. covers about
 40 acres. A small frame house and corral brs.
 S. 10° E. about 15 chs. dist. Owner unknown.
- 21.50 Gulch 60 lks. wide, course SE., asc.
- 32.20 Top of rocky spur, brs. SE. & NW., Pt. 10 chs. 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,
 S. 22 $\frac{1}{4}$ in N., and
 S. 27 in S. half, and
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
- 46.43 Wire fence, brs. N. & S.
- 49.50 W. fork of Crozier Canyon, course SE., 120 lks. wide,
 51.00 Asc. steep NE. slope.
- 61.50 Top of rocky spur, brs. N. & S. desc.
- 63.45 Wire fence, brs. NW. & SE.
- 65.50 Gulch 50 lks. wide, course NNE. near head. asc. steep.
- 80.00 To cor. of secs. 21, 22, 27 & 23.
 Land, rough and mountainous.
 Soil, 3rd rate, stony.
 No timber.
 Undergrowth, scattering cedar, palonegro, cacti.
 Oct. 20, 1910.

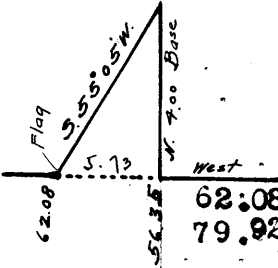
Chains.

- Oct. 21, 1910.
 At 8h a.m. l.m.t., at the cor. of secs. 21, 22, 27 & 28,
 I set off $10^{\circ}30'$ S. on the dec. arc, and $35^{\circ}27'$ 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.
 Over mts. land, desc. through dense cedar timber.
- 12.90 Wire fence, brs. NW. & SE.
 16.15 Desc. prec. SE. slope.
 23.00 W. fork of Crozier canyon, 100 lks. wide, course SE.
 asc. prec.
 40.00 Cor. point for $\frac{1}{4}$ sec. cor. falls on perishable ground on
 prec. SW. slope.
 48.06 Top of N. rim of canyon.
 Set an iron post 3 ft. long, 1 in. in diam. 24 ins. in
 the ground for witness cor. to $\frac{1}{4}$ sec. cor., marked on
 brass cap,
 W.C. in N. half,
 S. 21 $\frac{1}{4}$ in SW., and
 S. 22 in SE. quadrants, and
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 thence over high rolling mesa.
- 80.00 Set an iron post 3 ft. long, 2 ins. in diam. on bed-rock,
 in mound of stone for cor. of secs. 21, 22, 15 & 16,
 marked on bras cap,
 T. 24 N., R. 13 W. in N. half,
 S. 15 in NE.,
 S. 22 in SE.,
 S. 21 in SW., and
 S. 16 in NW. quadrants, from which,
 A cedar tree 8 ins. diam. brs. S. $85^{\circ}30'$ W. 19 lks. dist.,
 marked T. 24 N., R. 13 W. S. 21 B.T.
 A cedar tree 10 ins. diam. brs. N. $70^{\circ}30'$ W. 77 lks. dist.,
 marked T. 24 N., R. 13 W. S. 16 B.T.
 A cedar tree 6 ins. diam. brs. S. 44° E. 12 lks. dist.,
 marked T. 24 N., R. 13 W. S. 22 B.T.
 A cedar tree 10 ins. diam. brs. N. 66° E. 13 lks. dist.,
 marked T. 24 N., R. 13 W. S. 15 B.T.
- Land, mts., rolling.
 Soil, 3rd rate, gravelly, stony.
 Timber, cedar.
 Undergrowth, cedar, scrub oak, cacti. Fair grazing on mesa.
-
- S. $89^{\circ}59'$ E., on a random line, bet. secs. 15 & 22.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.96 Intersect cor. of secs. 14, 15, 22 & 23, whence I run,
 N. $89^{\circ}59'$ W., on a true line bet. secs. 15 & 22.
 Over rolling mesa, through dense cedar.
- 15.00 Ridge, brs. N. & S., desc. prec.
 20.80 Crozier canyon, 150 lks. wide, course SSE.
 Asc. prec.
 39.00 Top of flat spur, brs. SSE. & NNW., desc.
 39.98 Set an iron post 3 ft. long, 1 in. in diam. on bed-rock,
 in mound of stone for $\frac{1}{4}$ sec. cor., marked on brass cap.
 S. 15 $\frac{1}{4}$ in N., and
 S. 22 in S. half, from which,
 A cedar tree 14 ins. diam. brs. S. 92° E. 87 lks. dist.,
 marked $\frac{1}{4}$ S. 22 B.T.
 A cedar tree 12 ins. diam. brs. N. $57\frac{1}{2}^{\circ}$ E. 95 lks. dist.,
 marked $\frac{1}{4}$ S. 15 B.T.
- 45.00 Gulch 30 lks. wide, course SSW., near head, asc.
 52.00 Spur, brs. S. & N., desc.
 60.00 Middle fork of Crozier canyon, 100 lks. wide, course S. asc. prec.
 69.70 Top of mesa, brs. S. & N.,
 79.96 To cor. of secs. 15, 16, 21 & 22.
 Land, mts., broken. Soil, 3rd rate, stony.
 Timber scattering cedar. Undergrowth, cedar, cacti.
 At this cor. at noon, l.m.t., I set off $10^{\circ}34\frac{1}{2}'$ S. on the
 decl. arc, and observe the sun on the meridian.
 The resulting lat. is $35^{\circ}28'$ N.

Chains.

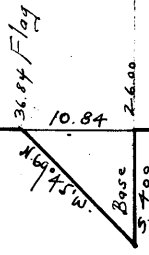
N. 0° 2' W., bet. secs. 15 & 16.
 Over high rolling mesa. through scattering cedar. asc.
 23.00 Top of rise, brs. E. & W., desc. grad.
 27.35 Wash, 30 lks. wide, course SE., asc. grad.
 40.00 Set an iron post 3 ft. long $\frac{1}{2}$ in. in diam. 26 ins. in
 the ground for $\frac{1}{4}$ sec. cor. marked on brass cap.
 S. 16 $\frac{1}{4}$ in W., and
 S. 15 in E. half, from which,
 A cedar tree 8 ins. diam. brs. N. 60° E. 103 lks. dist.,
 marked $\frac{1}{4}$ S. 15 B.T.
 A cedar tree 14 ins. diam. brs. S. 40° W. 117 lks. dist.,
 marked $\frac{1}{4}$ S. 16 B.T.
 80.00 On N. rim of mesa, brs. E. & W.
 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. 24 N., R. 13 W. in N. half,
 S. 10 in NE.,
 S. 15 in SE.,
 S. 16 in SW., and
 S. 9 in NW. quadrants, and
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.,
 from which,
 A cedar tree 10 ins. diam. brs. S. 16° W. 104 lks. dist.,
 marked T. 24 N., R. 13 W. S. 16 B.T.
 Land, mts., broken, rolling.
 Soil, 2nd & 3rd rate, gravelly, stony.
 No timber.
 Undergrowth, cedar, palonegro, cacti, and other brush.
 Fair grass on mesas.

S. 89° 59' E., on a random line, bet. secs. 10 & 15.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.92 Intersect N. & S. line at point 2 lks. S. of cor. of
 secs. 10, 11, 14 & 15, whence I run,
 West, on a true line, bet. secs. 10 & 15.
 Over mts. land, very stony ground, through cedar timber,
 and scattering scrub oak. asc.
 15.00 Top of mesa, brs. N & S.
 29.00 Desc.
 34.00 Canyon 50 lks. wide, course SW., near head.
 Asc. prec. SE. slope.
 39.96 Set an iron post 3 ft. long, 1 in. in diam. on bed-rock,
 in mound of stone for $\frac{1}{4}$ sec. cor, marked on brass cap,
 S. 10 $\frac{1}{4}$ in N., and
 S. 15 in S. half, and
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.,
 No bearings available. Cor. near foot of bluff, E. & W.
 44.00 S. point of bluff, desc. SW. slope.
 56.35 E. rim of canyon 200 ft. deep, 250 lks. wide, Course, SSE.
 across which I cannot chain. So I send a man ahead, and
 place a flag on line on W. rim of canyon.
 Then I measure a base line, North, 4 chs. to a point
 from which the flag on W. rim, brs. S. 55° 05' W.
 The dist. to flag is therefore Tang. 55° 05', 1.433 x 4.00 chs.,
 which is 5.73 chs., which added to 56.35 chs. gives,
 62.08 Top of W. rim of canyon., brs. NW. & SE.
 79.92 To cor. of secs. 9, 10, 15 & 16.
 Land, mts., broken, rolling.
 Soil, 3rd rate, stony.
 No timber.
 Undergrowth, cedar, pinon, scrub oak. Fair grass on mesas.
 Oct. 21, 1910.



Chains

Oct. 22, 1910.
 At 8h a.m., l.m.t., at the cor. of secs. 27, 28, 33 & 34, I set off 10°51'S. on the decl. arc, and 35°26'N. on the lat. arc, and determine a true meridian with the solar. Thence I run,
 West, bet. secs. 28 & 33, on Sectional Corrention Line.
 Over mts. land, along prec. stony S. slope.
 15.00 Desc. SW. slope.
 24.00 Bottom of canyon 150 lks. wide, course SE.
 26.00 Asc. prec. SE. slope of bluff, up which I cannot chain. Therefore, I send a man ahead and place a flag on line, on top of bluff to west.
 Then I measure a base line of 4.00 chs. to the south, from which point the flag to the West, brs. N. 69°45' W. The distance to the flag is therefore Tang. 69°45' = 2.7106 x 4.00 chs., = 10.84 chs., which added to 26.00 chs. gives
 36.84 To flag, top of extreme SE. pt. of bluff, brs. ENE. & W. Mark a cross (x) on barren granite bed-rock for witness cor. to 1/4 sec. cor. with 1/4 on N. of cross, and raise a mound of stone 4 ft. base, 2 ft. high N. of cor. No bearings available. This point is almost inaccessible.
 40.00 Cor. point falls on inaccessible point on S. face of bluff 100 ft. high, brs. E. & W. From the witness cor. above described I make a stadia measurement on level, of 8.81 chs. which added to 36.84 chs., gives
 45.65 Top of S. rim of bluff., E. & W.
 47.70 Top of mesa, brs. WSW. & E. Thence over rolling land, asc. grad.
 80.00 Set a granite stone 30x9x10 ins. on bed-rock, in mound of stone for cor. of secs. 28, 29, 32 & 33, marked with 4 notches on E., and 1 notch on S. edges, and from which,
 A cedar tree 12 ins. diam. brs. N. 82° E. 78 lks. dist., marked T. 24 N., R. 13 W. S. 28 B.T.
 A cedar tree 15 ins. diam. brs. S. 31° W. 110 lks. dist., marked T. 24 N., R. 13 W. S. 32 B.T.
 A cedar tree 14 ins. diam. brs. N. 65° W. 62 lks. dist., marked T. 24 N., R. 13 W. S. 29 B.T.
 A cedar tree 12 ins. diam. brs. S. 31° E. 93 lks. dist., marked T. 24 N., R. 13 W., S. 33 B.T.
 Land, mts. very rough. Soil, 2nd rate, stony. Cedar, scrub oak. S. 0° 3' E., bet. secs. 32 & 33.
 Over broken stony, mts. land, through cedar timber.
 3.00 Desc. steep.
 8.00 Canyon 100 ft. deep, 150 lks. wide, course ESE., near head. asc. steep.
 15.00 Spur, brs. SE. & NW., desc. grad. Leave cedar.
 33.00 Canyon 100 ft. deep, 250 lks. wide, course E. near head. asc.
 40.00 Set a granite stone 24x14x10 ins. 18 ins. in 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. No bearings avail.
 53.00 Top of S. rim of mesa, brs. ENE. & WSW. Desc. steep.
 70.00 Gulch 50 lks. wide, course ESE.,
 75.00 Head of gorge, course ENE., asc. steep.
 78.00 Intersect S. bdy. of Tp. at pt. 140 lks. S. 39° 34' E. of cor. of secs. 4, 5, 32. & 33, as heretofore described, which cor. I change to refer to secs. 4 & 5, of T. 23 N., R. 13 W. only, and at pt. of intersection, I
 Set a granite stone 20x10x8 ins. 15 ins. in the ground for closing cor. of secs. 32 & 33, marked C.C. on N., with 2 grooves on W., and 4 grooves on E. faces, and raise a mound of stone 2 ft. base, 1 1/2 ft. high N. of cor. No bearings available.
 Land, mts., broken. Soil, 3rd rate, stony.
 Timber, none. Undergrowth, cedar, scrub oak, Fair grass.
 At this cor. at noon, l.m.t., I set off 10°56' S. on the decl. arc, and observe the sun on the meridian. The resulting lat. is 35°25' N.



Chains.

- N. $0^{\circ} 3' W$., bet. secs. 28 & 29.
Over mts. broken land, desc. grad. through dense cedar.
- 6.00 Desc. prec.
- 14.00 Canyon 150 ft. deep, 6 chs. wide, course ESE., ascend, ...
- 28.00 Top of flat ridge, brs. E. & W., desc. grad.
- 40.00 Set a limestone $24 \times 12 \times 8$ ins. 18 ins. in 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.
- 50.00 Desc. prec. NE. slope.
- 64.00 Junction of two canyons, E., ESE., and SSW., asc. in canyon.
- 75.00 Leave canyon to right, asc. prec. SE. slope.
- 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. 24 N., R. 13 W. in N. half,
S. 28 in SE.,
S. 29 in SW.,
S. 20 in NW., and
S. 21 in NE. quadrants, and
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- Land mts. broken.
Soil, 3rd rate, stony.
Timber, scattering cedar.
Undergrowth, cedar, scrub oak, and other brush. Oct. 22, 1910.
Oct. 24, 1910.
- At 8h a.m., I met at the cor. of secs. 20, 21, 28 & 29, I set off $11^{\circ} 33\frac{1}{2}' S$ on the decl. arc, and $35^{\circ} 27' N$ on the lat. arc, & determine a meridian with the solar. Thence I run, East, on a random line, bet. secs. 21 & 28.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.08 Intersect N. & S. line at pt. 5 lks. N. of cor. of secs. 21, 22, 27 & 28, whence I run, N. $89^{\circ} 58' W$., on a true line bet. secs. 21 & 28.
Over rolling stony mesa, through scattering cedar.
asc. grad.
- 20.00 Top of rise, brs. N. & S., desc. 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,
S. 21 $\frac{1}{4}$ in N. half, and
S. 28 in S. half, and from raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor., from which,
A cedar tree 8 ins. diam. brs. N. $32^{\circ} W$. 113 lks. dist., marked $\frac{1}{4}$ S. 21 B.T.
- Desc. prec. W. slope.
- 44.80 Canyon 100 ft. deep, 6 chs. wide, course SSE., asc. prec.
- 48.00 Top of W. rim, of canyon, brs. N. & S., asc. grad.
- 55.00 Top of rise, brs. N. & S., desc. grad.
- 70.00 W. rim of mesa, brs. N. & S., desc. prec.
- 75.00 Canyon 300 ft. deep, 6 chs. wide, course SSW., asc. prec.
- 80.08 To cor. of secs. 20, 21, 28 & 29.
Land mts., broken. rolling.
Soil, 3rd rate, stony.
No timber, un dergrowth, cedar, scrub oak, .

Oct. 22, 1910.

Chains.

- N. $0^{\circ} 3' W.$, bet. secs. 20 & 21.
 Over mts. stony, land, asc.
 5.00 Top of spur, brs. ESE., desc.
 20.00 Canyon 100 ft. deep, 4 chs. wide, course SSE., asc. WSW. slope.
 40.00 Set a granite stone 20x10x10 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.

60.00 Top of flat ridge, brs. SSE. & NNW.

72.00 Desc. grad. ENE. slope.

78.00 Canyon 80 lks. wide, course SSE., asc.

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. 24 N., R. 13 W. in N. half,

S. 16 in NE.,

S. 21 in SE.,

S. 20 in SW., and

S. 17 in NW. quadrants, from which,

▲ cedar tree 6 ins. diam. brs. N. $20^{\circ} E.$ 33 lks. dist., marked T. 24 N., R. 13 W. S. 16 B.T.

A palonegro tree 8 ins. diam. brs. S. $80\frac{1}{2}^{\circ} E.$ 96 lks. dist., marked T. 24 N., R. 13 W. S. 21 B.T.

A cedar tree 28 ins. diam. brs. S. $21^{\circ} W.$ 52 lks. dist., marked T. 24 N., R. 13 W. S. 20 B.T.

A cedar tree 15 ins. diam. brs. N. $81^{\circ} W.$ 35 lks. dist., marked T. 24 N. R. 13 W. S. 17 B.T.

Land, broken mts:

Soil, 3rd rate, stony.

No timber:

Undergrowth, cedar, palonegro, cacti, scrub oak.

At this cor: at noon, ~~1. m. t.~~, I set off $11^{\circ} 38' S.$ on the decl. arc, and observe the sun on the meridian.

The resulting lat. is $35^{\circ} 28' N.$

S. $89^{\circ} 58' E.$, on a random line bet. secs. 16 & 21.

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

79.94 Intersect cor. of secs. 15, 16, 21 & 22, whence I run,

N. $89^{\circ} 58' W.$, on a true line, bet. secs. 16 & 21.

Over mts. land, desc. grad. over granite ledges; dense cedar.

16.00 E. rim of canyon 200 ft. deep; across which I cannot chain, therefore, I send a man ahead and place a flag on line on the W. rim of canyon.

Then I measure a base line of 7 chs. N. $10^{\circ} 2' E.$, whence the flag on the W. rim of canyon brs. S. $72^{\circ} 48' W.$,

The angle subtended is $72^{\circ} 46'$. The distance across to the flag is therefore $\text{tang. } 72^{\circ} 46' = 3.224 \times 7.00 \text{ chs.} =$

22.57 chs., which added to 16.00 chs. gives

38.57 To W. rim of Crozier canyon, brs. NNW. & SSE., asc. grad.

39.97 Set a granite stone 30x15x10 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.

45.00 Enter dense cedar, brs. N. & S.

64.00 Leave cedar, enter dense scrub oak, thence over rough granite ledges.

76.00 East rim of canyon, brs. S. & N. Desc. steep.

79.94 To cor. of secs. 16, 17, 20 & 21.

Land, mts., rough and broken.

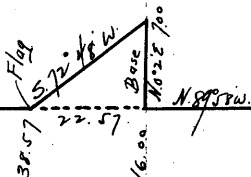
Soil, 3rd rate, stony.

No timber.

Undergrowth, scrub oak, cedar, palonegro.

Good grazing on mesas.

Oct. 24, 1910.



Chains.

Oct. 25, 1910.
 At 8h a.m., l.m.t., at the cor. of secs. 16, 17, 20 & 21,
 I set off $11^{\circ}55'$ S., on the decl. arc, and $35^{\circ}23'$ 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 mts. land, asc. steep, stony, SW. slope.
 6.00 Top of mesa, brs. NW. & SE. asc. grad.
 25.00 Top of rise, brs. NW. & SE., desc. grad.
 38.90 S. rim of canyon, middle fork of Crozier canyon,
 brs. NW. & SE., desc. prec.
 40.00 Set a granite stone $24 \times 15 \times 10$ 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.,
 No bearings available.
 50.00 W. fork of Crozier canyon, course SE., asc.
 58.00 Sharp barren ridge, brs. SE. & NW., desc. prec.
 65.00 Canyon 150 lks. wide, course SSE., asc. prec.
 73.00 Top of N. rim of canyon, brs. NW. & SE., asc. grad.
 80.00 Set a granite stone $24 \times 15 \times 8$ ins. 18 ins. in the ground for
 cor. of secs. 8, 9, 16 & 17, marked with 4 notches on S. &
 E. edges, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft.
 high W. of cor., from which,
 A cedar tree 10 ins. diam. brs. $N. 53^{\circ} E.$ 127 lks. dist.,
 marked T. 24 N., R. 13 W. S. 9 B.T.
 A cedar tree 10 ins. diam. brs. $S. 60^{\circ} E.$ 103 lks. dist.,
 marked T. 24 N., R. 13 W. S. 16 B.T.
 A cedar tree 10 ins. diam. brs. $S. 2^{\circ} W.$ 145 lks. dist.,
 marked T. 24 N., R. 13 W. S. 17 B.T.
 A cedar tree 24 ins. diam. brs. $N. 78^{\circ} W.$ 46 lks. dist.,
 marked T. 24 N., R. 13 W. S. 8 B.T.
 Land, mts., very rough and broken.
 Soil, 3rd rate, stony.
 Timber, cedar. Undergrowth, cedar, palonegro, scrub oak.
 Clouds obscure the sun at noon. Impossible to observe lat.

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 very rough broken, stony land, dense cedar.
 10.00 Head of draw 2 chs. wide, course SSE.
 18.00 Top of flat ridge, brs. SSE. & NNW.
 Desc. grad.
 40.00 Set a sandstone $24 \times 10 \times 10$ 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 N. of cor., from which,
 A cedar tree 6 ins. diam. brs. $N. 50^{\circ} E.$ 25 lks. dist.,
 marked $\frac{1}{4}$ S. 9 B.T.
 A cedar tree 10 ins. diam. brs. $S. 20^{\circ} W.$ 35 lks. dist.,
 marked $\frac{1}{4}$ S. 16 B.T.
 52.00 Canyon 200 ft. deep, 5 chs. wide, course SE., asc. steep.
 57.00 Sharp spur, brs. SE. & NW., desc.
 62.00 Gulch 50 lks. wide, course SE, near head, asc.
 77.00 Top of mesa, brs. NW. & SE.
 80.00 To cor. of secs. 8, 9, 16 & 17.
 Land, rough broken, stony.
 Soil, 3rd & 4th rate, stony.
 Timber, some cedar, valuable for posts.
 Undergrowth, cedar, scribe oak, and other brush.

Oct. 25, 1910.

Chains

Nov. 2, 1910.
 At 8h a.m., l.m.t., at the cor. of secs. 28, 29, 32 & 33,
 I set off 14° 34' S. on the decl. arc, and 35° 26' N. on the
 lat. arc, and determine a true meridian with the solar.
 Thence I run,
 West, bet. secs. 29 & 32, On Sectional Correction Line.
 Over broken stony mesa, interspersed with isolated
 granite pillars, 15 & 20 ft. high.
 through scattering cedar.

30.00 Canyon 50 lks. wide, course ENE., near head, asc.
 40.00 A cedar tree 6 ins. diam. I blaze on N. & S. faces, for
 1/4 sec. cor., and mark S. 29 1/4 on N., and S. 32 on S. faces,
 from which,
 A cedar tree 10 ins. diam. brs. S. 41° E. 100 lks. dist.,
 marked 1/4 S. 32 B.T.
 A cedar tree 6 ins. diam. brs. N. 27° W. 43 lks. dist.,
 marked 1/4 S. 29 B.T.

56.00 Desc. NW. slope.
 76.15 Canyon 100 ft. deep, 150 lks. wide, course ENE., near head,
 asc. steep,
 80.00 Set a granite stone 24x14x8 ins. 18 ins. in the ground for
 cor. of secs. 29, 30, 31 & 32, marked with 5 notches on E.
 and 1 notch on S. edges, and raise a mound of stone 2
 ft. base, 1 1/2 ft. high W. of cor., from which,
 A cedar tree 6 ins. diam. brs. N. 77° E. 52 lks. dist.,
 marked T. 24 N., R. 13 W. S. 29 B.T.
 A cedar tree 10 ins. diam. brs. S. 83° W. 27 lks. dist.,
 marked T. 24 N., R. 13 W. S. 31 B.T.

Land, mts. broken.
 Soil, 3rd rate, stony.
 No timber.
 Undergrowth, cedar, scrub oak, palonegro. Fair grass.

S. 0° 3' E., bet. secs. 31 & 32.
 Over stony mesa, desc. grad. through dense cedar.

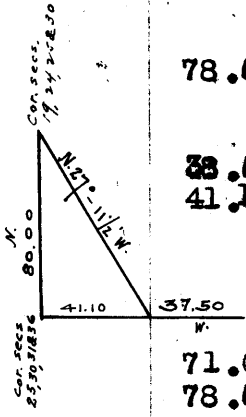
2.50 Head of canyon, course ENE., asc. grad. over stony ground.
 40.00 Top of rise.
 Set a granite stone 20x10x10 ins. 15 ins. in the ground for
 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of
 stone 2 ft. base, 1 1/2 ft. high W. of cor, from which,
 A cedar tree 6 ins. diam. brs. S. 8° E. 51 lks. dist.,
 marked 1/4 S. 32 B.T.
 A cedar tree 11 ins. diam. brs. N. 4° W. 71 lks. dist.,
 marked 1/4 S. 31 B.T.

60.80 W. rim of high mesa, brs. NW. & SE., desc. prec. WSW. slope.
 exceedingly rough and broken.

78.10 Intersect South bdy. of Tp. at pt. 165 lks., N. 89° 9' E. of
 cor. of secs. 5, 6, 31 & 32, as heretofore described, which
 corner I change to refer to secs. 5 & 6 of T. 28 N., R. 13 W.
 only, and at point of intersection, I
 Mar cross (x) on volcanic boulder in place, 3x3x2 ft. above
 ground, for closing cor. of secs. 31 & 32, with C.C. on N.,
 5 grooves on E., and 1 groove on W. of cross,
 and raise a mound of stone 2 ft. base, 1 1/2 ft. high
 N. of cor. No bearings available.
 At this cor, at noon, l.m.t., I set off 14° 39' S. on the
 decl. arc, and observe the sun on the meridian.
 The resulting lat. is 35° 25' N.

Chains

- 37.50 From the cor. of secs. 29, 30, 31 & 32, I run, West, on a random line, bet. secs. 30 & 31. Top of W. rim of high mesa, brs. N. & SSE. The flag on line as set by me on Oct. 31. Beyond this point it is impracticable to chain. I find the cor. of secs. 25, 30, 31 & 36 on line to the West. and from my station the cor. of secs. 19, 24, 25 & 30, on which I have left a flag is plainly visible, and bears N. 27° 11' W. The angle subtended is therefore 62° 48'. Using the W. line of secs. 30 as a base line of 80.00 chs., the dist. to the cor. of secs. 25, 30, 31 & 36, is $80.00 \times \sin 62^\circ 48' = 51.375 \times 80.00 \text{ chs.} = 41.10 \text{ chs.}$, which added to 37.50 chs. gives
- 78.60 To cor. of secs. 25, 30, 31 & 36, whence I run, East, on a true line, bet. secs. 30 & 31. Asc. prec. W. slope.
- 38.60 Pt. for $\frac{1}{4}$ sec. cor. falls on inaccessible face of bluff,
- 41.10 Set a granite stone 24x15x10 ins. on bed-rock, in mound of stone for witness cor. to $\frac{1}{4}$ sec. cor., marked W.C. $\frac{1}{4}$ on N. face, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor. No bearings available. Desc. grad., from $\frac{1}{4}$ sec. cor.
- 71.00 Gulch 30 lks. wide, course NE., near head. asc.
- 78.60 To cor. of secs. 29, 30, 31 & 32. Land, mts., rolling. Soil, 3rd rate, stony. No timber. Undergrowth, scattering cedar. Fair native grass.



- N. 0° 3' W., bet. secs. 29 & 30. Over broken m stony mesa. slopes E., through scattering cedar.
- 5.00 Gulch 30 lks. wide, course SE., near head, asc. grad.
- 40.00 Set a volcanic stone 30x10x10 ins., 10 ins. in ground on bed-rock, in mound of stone 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.
- 76.00 Desc.
- 79.50 Gulch 20 lks. wide, course E., asc.
- 80.00 Set a granite stone 24x10x10 ins. 18 ins. in the ground for cor. of secs. 19, 20, 29 & 30, marked with 2 notches on S. & 5 notches on E. edges, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor., from which,
 - A cedar tree 6 ins. diam. brs. N. 34° E. 17 lks. dist., marked T. 24 N., R. 13 W. S. 20 B.T.
 - A cedar tree 6 ins. diam. brs. S. 45° E. 34 lks. dist., marked T. 24 N., R. 13 W. S. 29 B.T.
 - A cedar tree 10 ins. diam. brs. S. 63° W. 81 lks. dist., marked T. 24 N. R. 13 W. S. 30 B.T.
 - A cedar tree 8 ins. diam. brs. N. 59° W. 52 lks. dist., marked T. 24 N., R. 13 W. S. 19 B.T.
- Land, rolling, broken. Soil, 3rd rate, stony. No timber. Undergrowth, cedar, scrub oak, cacti. Fair grass.

Nov. 2, 1910.

Chains.

Nov. 3, 1910.

At 8h a.m., l.m.t., at the cor. of secs. 19, 20, 29 & 30, I set off $14^{\circ}53'$ S. on the decl. arc, and $352^{\circ}7'$ N. on the lat. arc, and determine a true meridian with the solar. Thence I run,

East, on a random line bet. secs. 20 & 29.

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

80.04 Intersect N. & S. line at corner of secs. 16, 17, 20 & 21, whence I run, West,

on a true line, bet. secs. 20 & 29.

Over mts. land, along steep stony S. slope. through cedar timber, tesseta, and cacti.

8.30 Gulch 50 lks. wide, course SE., asc. broken SE. slope.

33.50 Gulch 50 lks. wide, course SE., asc. steep.

38.00 Top of mesa, brs. SE. & NW., asc. grad.

40.02 Set a volcanic stone $30 \times 10 \times 10$ 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., from which,

A cedar tree 14 ins. diam. brs. S. 30° W. 39 lks. dist., marked $\frac{1}{4}$ S. 29 B.T.

A cedar tree 10 ins. diam. brs. N. 61° W. 57 lks. dist., marked $\frac{1}{4}$ S. 20 B.T.

65.00 Top of rise, desc. grad.

74.50 Gulch 30 lks. wide, course SE., asc.

80:04 To cor. of secs. 19, 20, 29 & 30.

Land, rolling, mts. broken.

Soil, 3rd & 4th rate, stony.

Timber, cedar, scattering.

Undergrowth, cedar, scrub oak, tesseta, cacti.

West, on a random line, bet. secs. 19 & 30.

35.50 Top of W. rim of high mesa, bluff 200 ft. high, brs. N. & S., down which I cannot chain.

From this point, the cor. of secs. 19, 24, 25 & 30, on the W. bdy., on which I have left a flag, is plainly visible, and on my line projected due west.

The cor. of secs. 25, 30, 31 & 36 on the W. bdy. of Tp. on which I have left a flag is plainly visible, and

brs. S. $28^{\circ}9'$ W. The angle subtended between the two lines is therefore $61^{\circ}51''$. Using the W. line of sec. 30 as a base line of 80.00 chs., the distance from my station to the cor. of secs. 19, 24, 25 & 30, is $\text{tang. } 28^{\circ}9' \times 80.00 \text{ chs.} = .535 \times 80.00 \text{ chs.} = 42.80 \text{ chs.}$, which

added to 35.50 chs. gives 78.30 chs. to Cor. Hence I run,

East, on a true line, bet. secs. 19 & 30.

Over mts. stony land, asc. steep on Spur, and at about

22.00 Asc. prec. W. slope of mesa.

38.30 Pt. for $\frac{1}{4}$ sec. cor. falls on perishable ground on W. face of bluff.

42.80 Top of high mesa, brs. N. & S. covered with volcanic scoria.

Set a volcanic stone $30 \times 15 \times 10$ ins. 15 ins. in ground to bed-rock, in mound of stone for witness cor. to $\frac{1}{4}$ sec.

cor. marked W.C. $\frac{1}{4}$ on N. face, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor. No bearings available.

78.30 To cor. of secs. 19, 20, 29 & 30.

Land, mts., very rough and broken.

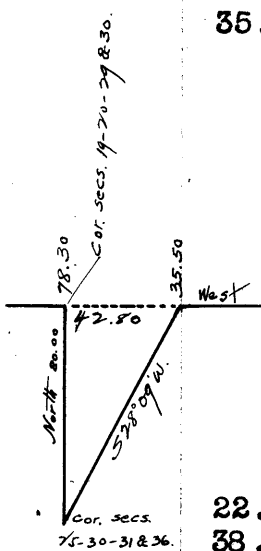
Soil, 3rd & 4th rate, stony.

No timber.

Undergrowth, cedar, tesseta, scrub oak, palmeo, amole, etc.

At this cor. at noon, l.m.t., I set off $14^{\circ}58'$ S. on the decl. arc, and observe the sun on the meridian.

The resulting lat. is $35^{\circ}27'$ N.



Chains.

N. 0° 3' W., bet. secs. 19 & 20.
 Over mts. land, , through dense cedar, volcanic scoria.
 6.00 Gulch 30 lks. wide, course SE., near head, asc. grad.
 16.00 Top of rise, on mesa, desc. grad.
 30.90 Gulch 20 lks. wide, course E., asc.
 35.00 Top of flat spur, brs. E. & W., desc.
 39.45 Gulch 40 lks. wide, course ESE.
 40.00 Set a volcanic stone 20x14x10 ins. 15 ins. in the ground for
 ¼ sec. cor., marked ¼ on W. face, and raise a mound or
 stone 2 ft. base, 1½ ft. high W. of cor., from which,
 A cedar tree 10 ins. diam. brs. N. 8° E. 48 lks. dist.,
 marked ¼ S. 20 B.T.
 A cedar, tree 10 ins. diam. brs. N. 43° W. 31 lks. dist.,
 marked ¼ S. 19 B.T.
 72.00 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. 24 N., R. 13 W. in N. half,
 S. 17 in NE.,
 S. 20 in SE.,
 S. 19 in SW., and
 S. 18 in NW. quadrants, from which,
 A cedar tree 15 ins. diam. brs. N. 32° E. 113 lks. dist.,
 marked T. 24 N., R. 13 W. S. 17 B.T.
 A cedar tree 10 ins. diam., brs. S. 30° E. 36 lks. dist.,
 marked T. 24 N., R. 13 W. S. 20 B.T.
 A cedar tree 6 ins. diam. brs. S. 50° W. 54 lks. dist.,
 marked T. 24 N. R. 13 W. S. 19 B.T.
 A cedar tree 10 ins. diam. brs. N. 33° W. 123 lks. dist.,
 marked T. 24 N., R. 13 W. S. 18 B.T.
 Land, mts.,
 Soil, 3rd rate, stony.
 No timber.
 Undergrowth, dense cedar, and other brush. Fair grass.

East, on a random line, bet. secs. 17 & 20.
 40.00 Set temp. ¼ sec. cor.
 80.04 Intersect N. & S. line at point 5 lks. N. of cor. of secs.
 16, 17, 20 & 21, whence I run,
 N. 89° 58' W. on a true line, bet. secs. 17 & 20.
 Over mts. land, desc. through dense cedar.
 2.50 Gulch 60 lks. wide, course SSE., asc. steep.
 23.00 Top of W. rim of canyon, brs. NNW. & SSE.,
 15.00 Desc.
 18.00 Canyon 50 lks. wide, course SSE., near head, asc.
 31.00 Rim of mesa, brs. NNW. & SSE.,
 36.00 on mesa, brs. NNW. & SSE.,
 38.50 Desc. steep,
 40.02 Set a granite stone 24x15x10 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.
 44.00 Draw 4 chs. wide, course SE., asc.
 60.00 Top of rise, brs. N. & S.
 Desc.
 71.10 Gulch 50 lks. wide, course SSE.
 80.04 To cor. of secs. 17, 18, 19 & 20.
 Land, rolling, broken.
 Soil, 3rd rate, stony.
 No timber.
 Undergrowth, dense cedar, cacti, . Fair grass on mesas.

Nov. 3 , 1910.

Chains.

- Nov. 4, 1910.
 At 8h a.m., l.m.t., at the cor. of secs. 17, 18, 19 & 20,
 I set off $15^{\circ} 12'$ S. on the decl. arc, and $35^{\circ} 28'$ N. on the
 lat. arc, and determine a true meridian with the solar.
 Thence I run,
 West, on a random line, bet. secs. 18 & 19.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 78.18 Intersect W. bdy. of Tp. at a point 5 lks. N. of cor. of
 sec. 13, 18, 19 & 24, whence I run,
 N. $89^{\circ} 58'$ E., on a true line, bet. secs. 18 & 19.
 Over mts. land, asc. very rough, stony SW. slope.
- 32.00 Gulch 50 lks. wide, course SW., near head., asc. prec.
 35.00 Top of spur, brs. WSW. & ENE.
 38.18 Set a granite stone $20 \times 10 \times 10$ 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.
 No bearings available. Thence along prec. SW. slope.
- 60.00 Head of Canyon, course WSW., asc. prec. W. slope.
 66.00 Top of mesa, brs. NW., and SSW.,
 72.00 Desc. grad.
 78.18 To cor. of secs. 17, 18, 19 & 20.
 Land, mts., very rough.
 Soil, 3rd & 4th rate, stony.
 No timber.
 Undergrowth, scattering cedar, cacti.
-
- N. $0^{\circ} 3'$ W., bet. secs. 17 & 18.
 Over mts. land, along broken E. slope,
 through scattering cedar.
- 18.00 Gulch 30 lks. wide, course SE.,
 40.00 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 W. face, and raise a mound of
 stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 56.00 Gulch 30 lks. wide, course ESE., asc.
 70.00 Spur, brs. SE. & NW. desc.
 76.00 Gulch 50 lks. wide, course SE., near head, asc.
 80.00 Set a granite stone $30 \times 12 \times 8$ ins., on bed-rock, in mound
 of stone for cor. of secs. 7, 8, 17 & 18, marked with 4
 notches on S. & 5 notches on E. edges, and raise a mound
 of stone 2 ft. base, 2 ft. high W. of cor.
 from which,
 A cedar tree 20 ins. diam. brs. S. 20° W. 77 lks. dist.,
 marked T. 24 N., R. 13 W. S. 18 B.T.
 Clouds obscure the sun at noon.
 Impossible to observe the latitude.
 Land, mts., rolling, broken.
 Soil, 3rd rate, stony.
 No timber.
 Undergrowth, scrub oak, cedar. Fair grass on mesas.

- Chains.
- S. 89°58' E., on a random line bet. sec. 8 & 17.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 79.96 Intersect N. & S. line at point 9 lks. S. of cor. of
secs. 8, 9, 16 & 17, whence I run,
S. 89°58' W., on a true line, bet. secs. 8 & 17.
Over mts., broken land, desc.
- 6.00 Desc. prec.
- 12.00 Middle fork of Crozier canyon, 150 lks. wide, course SSE.
Asc.
- 18.00 W. rim of canyon, brs. SSE. & NNW,
- 39.98 Set a sandstone 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 W. of cor. from which,
A cedar tree 14 ins. diam., brs. N. 3° W. 172 lks. dist.,
marked $\frac{1}{4}$ S. 8 B.T.
A cedar tree 14 ins. diam. brs. S. 36° E. 33 lks. dist.,
marked $\frac{1}{4}$ S. 17 B.T.
- 55.00 Desc.
- 59.90 Gulch 50 lks. wide, course SSW., asc.
- 65.50 Spur, brs. S. & N., near pt., desc.
- 69.90 Gulch 30 lks., wide, course S., asc.
- 79.96 To cor. of secs. 7, 8, 17 & 18.
Land, mts., broken.
Soil, 3rd rate, stony.
No timber.
Undergrowth, scrub oak, cedar.
-
- S. 89°58' W., on a random line, bet. secs. 7 & 18.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 78.08 Intersect W. bdy. of Tp. at point 2 lks. N. of cor. of
secs. 7, 12, 13 & 18, whence I run,
N. 89°57' E., on a true line, bet. secs. 7 & 18.
Over very rough broken, stony mts. land, asc.
- 12.00 Gulch, 50 lks. wide, course NW., near head. asc. prec.
W. slope.
- 38.08 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.
- 42.00 Top of W. rim of mesa, brs. N. & S.
- 50.00 Desc. grad.
- 56.00 Gulch 50 lks. wide, course SSE., near head, asc.
- 66.00 Ridge, brs. SSE. & NNW., desc.
- 78.08 To cor. of secs. 7, 8, 17 & 18.
Land, mts., broken. very rough.
Soil, 3rd rate, stony.
No timber.
Undergrowth, scattering cedar, and other brush.
Good native grass on mesas.

Nov. 4, 1910.

Chains.

- Nov. 5, 1910.
 At 3h p.m., l.m.t., at the cor. of secs. 11, 12, 13 & 14,
 I set off $15^{\circ}37'$ S., on the decl. arc, and $35^{\circ}29'$ N. on the
 lat. arc, and determine a true meridian with the solar.
 Thence I run.
 N. $0^{\circ}1'$ W., bet. secs. 11 & 12.
 Over broken land, desc. grad. through cedar timbe.r.
- 17.12 Gulch 30 lks. wide, course SSE.
 35.45 Gulch 40 lks. wide, course 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,
 S. 11 $\frac{1}{4}$ in W., and
 S. 12 in E. half, from which,
 A cedar tree 20 ins. diam. brs. East, 70 lks. dist.,
 marked $\frac{1}{4}$ S. 12 B.T.
 A cedar tree 8 ins. diam. brs. S. 38° W. 43 lks. dist.,
 marked $\frac{1}{4}$ S. 11 B.T.
- 50.00 Flat ridge, brs. SE. & NW., desc.
 55.00 Gulch 30 lks. wide, course SE., near head, asc.
 62.00 Top of ridge, brs. SE. & NW., old road, on same. desc.
 66.35 Gulch 50 lks. wide, course SE., asc.
 80.00 ~~80.00~~ Set an iron post 2 ins. diam. 3 ft. long, 24 ins. in
 the ground for cor. of secs. 1, 2, 11 & 12,
 marked on brass cap.
 T. 24 N., R. 13 W. in N. half,
 S. 1 in NE.,
 S. 12 in SE.,
 S. 11 in SW., and
 S. 2 in NW. quadrants, and raise a mound of stone 2
 ft. base, $1\frac{1}{2}$ ft. high W. of cor., from which,
 A cedar tree 6 ins. diam. brs. S. $71\frac{1}{2}^{\circ}$ E. 78 lks. dist.,
 marked T. 24 N., R. 13 W. S. 12 B.T.
 A cedar tree 12 ins. diam. brs. N. $36\frac{1}{2}^{\circ}$ W. 113 lks. dist.,
 marked T. 24 N., R. 13 W. S. 2 B.T.
- Land, mts., broken.
 Soil, 3rd rate, gravelly, stony.
 No timber.
 Undergrowth, scrub oak, cedar, . Fair grass .
-
- East, on a random line, bet. secs. 1 & 12.
 40.00 Set tme.p. $\frac{1}{4}$ sec. cor.
 79.88 Intersect Cor. of secs. 1, 6, 7 & 12, on E. bdy., Whence I run,
 West, on a true line, bet. secs. 1 & 12.
 Over broken land, through dense cedar.
- 10.00 Wash 50 lks. wide, course SSW.
 Asc. grad.
- 39.94 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,
 S. 1 $\frac{1}{4}$ in N., and
 S. 12 in S. half, from which,
 A cedar tree 14 ins. diam. brs. S. 62° W. 90 lks. dist.,
 marked $\frac{1}{4}$ S. 12 B.T.
 A cedar tree 10 ins. diam. brs. N. 60° E. 70 lks. dist.,
 marked $\frac{1}{4}$ S. 1 B.T.
- 42.00 Top of flat ridge, brs. S. & N., desc.
 43.70 Wash, 30 lks. wide, course S., old road in same. asc.
 57.25 Gulch 27 lks. wide, course SSE.
 62.00 Top of flat ridge, brs. S. & N., desc. grad.
 79.88 To cor. of secs. 1, 2, 11 & 12.
 Land, mts. broken.
 Soil, 3rd rate, gravelly.
 No timber.
 Undergrowth, scrub oak, cedar, cacti. Fair grass.
 Nov. 5, 1910.

Chains

Nov. 6, 1910.

At 8h a.m., l.m.t. at the cor. of secs. 1, 2, 11 & 12, As the weather is cloudy, and I am unable to get a solar observation at this hour, I set my instrument over the cor., and with my vernier clamped at 90°, I sight to a flag on the true line bet. secs. 1 & 12, which line is due East and West.

From this line I turn an angle of 90° 1' to the left, and run,

N. 0° 1' W., bet. secs. 1 & 2, by back & fore sight.

Over broken mts. land, asc. grad. over succession of ridges, along E. side of main wash.

- 2.50 Gulch 50 lks. wide, course SW.,
- 8.32 Gulch 50 lks. wide, course WSW.
- 28.50 Gulch 50 lks. wide, course WSW., near head.
- 39.00 Gulch 50 lks. wide, course WSW.
- 40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in diam the ground for 1/4 sec. cor., marked on brass cap, S. 2 1/4 in W., and S. 1 in E. half, and from which, A cedar tree 10 ins. diam. brs. S. 76° W. 75 lks. dist., marked 1/4 S. 2 B.T. A cedar tree 24 ins. diam. brs. S. 72° E. 49 lks. dist., marked 1/4 S. 1 B.T.

79.85 Intersect 6th standard parallel North, at a point, whence standard cor. of secs. 35 & 36, T. 25 N., R. 13 W., brs. West, 21.80 chs. dist. as recently established by me and heretofore described.

At the point of intersection, I

Set an iron post 2 ins. diam. 3 ft. long 24 ins. in the ground for closing cor. of secs. 1 & 2, marked on brass cap,

- C.C., S. of centre,
- T. 25 N., R. 13 W., in N. half,
- S. 36 in NE.,
- S. 35 in NW.,
- S. 1 in SE., and
- S. 12 in SW. quadrants, and

raise a mound of stone 2 ft. base, 1 1/2 ft. high S. of cor. No bearings available.

Land, mts., broken, rolling. Soil, 2nd & 3rd rate, gravelly, stony. No timber. Undergrowth, cedar, scrib oak. Fair grass.

At 10h a.m., l.m.t., at the cor. of secs. 10, 11, 14 & 15, I set off 15° 51' S. on the decl. arc, and 35° 29' N. on the lat. arc, and determine a true meridian with the solar, Thence I run,

N. 0° 1' W., bet. secs. 10 & 11.

Over mts. stony land, desc. through cedar timber.

- 3.50 Gulch 30 lks. wide, course SE., asc.
- 11.00 Top of rim, brs. E. & W.,
- 13.00 Desc. prec.
- 16.00 Enter Canyon, course SE., 50 lks. wide, near head, asc.
- 18.00 Point of spur, brs. SE. & NW., desc.
- 24.00 Rough box canyon, course SSE. asc. prec.
- 26.40 Top of rim, asc. grad.
- 36.00 Top of flat ridge, brs. SSE. & NNW. 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, S. 10 1/4 in W., and S. 11 in E. half, and from which, A cedar tree 8 ins. diam. brs. N. 86 1/2° E. 55 lks. dist., marked 1/4 S. 11 B.T. A cedar tree 8 ins. diam. brs. S. 10° W., 88 lks. dist., marked 1/4 S. 10 B.T.

Subdivision of T. 24 N., R. 13 W.

27

Chains.

- 44.00 Wash 40 lks. wide, course SSE., ascend.
 56.00 Ridge, brs. SSE. & NNW., desc.
 79.20 Gulch 30 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. 2, 3, 10 & 11, marked on brass cap,
 T. 24 N., R. 13 W. in N. half,
 S. 2 in NE.,
 S. 11 in SE.,
 S. 10 in SW., and
 S. 3 in NW. quadrants, from which,
 A cedar tree 6 ins. diam. brs. N. $35^{\circ}\frac{1}{2}$ E. 30 lks. dist., marked T. 24 N., R. 13 W. S. 2 B.T.
 A cedar tree 6 ins. diam. brs. S. 43° E. 70 lks. dist., marked T. 24 N., R. 13 W. S. 11 B.T.
 A cedar tree 8 ins. diam. brs. S. 14° W. 71 lks. dist., marked T. 24 N., R. 13 W. S. 10 B.T.
 A cedar tree 10 ins. diam. brs. N. 80° W. 55 lks. dist. marked T. 24 N., R. 13 W. S. 3 B.T.
 Land, broken.
 Soil, 3rd rate, stony, gravelly,
 Timber, some cedar.
 Undergrowth, scrub oak, cedar, pinon. Fair grazing. ✓
 At this cor., at noon, ~~1 m.t.~~, I set off $15^{\circ}53'$ S. on the decl. arc, and observe the sun on the meridian.
 The resulting lat. is $35^{\circ}29\frac{1}{2}'$ N.

-
- $35^{\circ}39'59''$ E., on a random line, bet. secs. 2 & 11
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.02 Intersect N & S. line at point $2\frac{1}{2}$ lks. S. of cor. of secs. 2, 3, 10 & 11, whence I run, West, on a true line bet. secs. 2 & 11.
 Over mts. broken stony land, desc. through cedar timber.
 3.00 Gulch 80 lks. wide, course S., 8 chs. thence SE.
 21.65 Old road, top of ridge, brs. SSE. & NNW. desc.
 27.75 Gulch 50 lks. wide, course SSW. asc.
 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,
 S. 2 $\frac{1}{4}$ in N., and
 S. 11 in S. half, from which,
 A cedar tree 10 ins. diam. brs. S. $43\frac{1}{2}^{\circ}$ E. 99 lks. dist., marked $\frac{1}{4}$ S. 11 B.T.
 A cedar tree 24 ins. diam. brs. N. $76\frac{1}{2}^{\circ}$ W. 218 lks. dist., marked $\frac{1}{4}$ S. 2 B.T.
 58.00 Top of ridge, brs. SSE., & NNW.
 65.00 Gulch 50 lks. wide, course SSW. asc. grad.
 80.02 To cor. of secs. 2, 3, 10 & 11.
 Land, mts., broken.
 Soil, 3rd rate, stony, gravelly.
 Scattering cedar timber, valuable for posts.
 Undergrowth, cedar, scrub oak, palonagro, good native grass.
-
- N. $0^{\circ}1'$ W., bet. secs. 2 & 3.
 Over mts. broken land, asc. steep.
 4.00 Top of spur, brs. SE. & NW., desc.
 23.11 Gulch 50 lks. 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, S. $3\frac{1}{4}$ in W. & S. 2 in E. half, from which,
 A cedar tree 10 ins. diam. brs. N. 37° E. 41 lks. dist., marked $\frac{1}{4}$ S. 2 B.T.
 A cedar tree 12 ins. diam. brs. S. 42° W. 48 lks. dist., marked $\frac{1}{4}$ S. 3 B.T.
 64.00 Wash 50 lks. wide, course SE.
 79.50 Wash 50 lks. wide, course ESE.

Chains.

79.90 Intersect 6th Standard Parallel North, at point 22.00 chs. E. of cor. of secs. 34 & 35, as recently established by ~~me~~ and ~~meant~~ heretofore described.
 At point of intersection I
 Set an iron post 3 ft. long 2 ins. in diam. 24 ins. in the ground for closing cor. of secs. 2 & 3, marked on brass cap,
 C.C. S. of centre,
 T. 25 N., R. 13 W, S. 34, S. 35 in N. half,
 S. 2 in SE.; and
 S. 3 in SW. quadrants; and
 raise a mound of stone 3 ft. base, 2 ft. high S. of cor.
 No bearings available.
 Land, mts. broken.
 Soil, 3rd rate, gravelly.
 Timber, some cedar.
 Undergrowth, scrub oak, cedar, pinon. Good grazing.

N.0° 2' W., bet. secs. 9 & 10.
 Over mts. land desc.
 1.00 N. rim of mesa, brs. E. & W., desc. prec.
 8.00 W. branch of Crozier canyon 200 ft. deep, course SE.
 10.00 Asc. prec.
 26.00 Top of N. rim of canyon, brs. E. & W.
 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. No bearings avail.
 70.00 Desc. prec. NE. slope.
 76.00 Crozier Canyon, 150 lks. wide, in bottom, course SSE.
 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. 24 N., R. 13 W. in N. half,
 S. 3 in NE.,
 S. 10 in SE.,
 S. 9 in SW., and
 S. 4 in NW. quadrants, and
 raise a mound of stone 2 ft. base. $1\frac{1}{2}$ ft. high W. of cor.
 No bearings available.
 Land, broken, rolling.
 Soil, 3rd rate, gravelly, stony.
 No timber.
 Undergrowth, scattering cedar, pinon. scrib oak.
 Nov. 6, 1910.

Chains

- Nov. 7, 1910.
At 8h a.m., l.m.t., at the cor. of secs. 3, 4, 9 & 10,
I set off $16^{\circ}07'$ S. on the decl. arc, and $35^{\circ}29\frac{1}{2}'$ N. on the
lat. arc, and determine a true meridian with the solar.
thence I run,
East, on a random line, bet. secs. 3 & 10.
- 40.00 Set thep. $\frac{1}{4}$ sec. cor.
79.30 Intersect N. & S. line at point 25 lks. S. of cor. of
secs. 2, 3, 10 & 11, whence I run,
S. $89^{\circ}50'$ W., on a true line, bet. secs. 3 & 10.
Over mts. land, through dense cedar, desc.
- 1.40 Gulch 30 lks. wide, course ESE. asc.
3.40 Same gulch s. wide, course ENE., asc. - steep.
4.00 " " " " E. SE. asc. steep.
- 13.00 Top of ridge, brs. SSE. & NNW., desc.
20.00 Gulch 40 lks. wide, course S., asc.
28.00 Ridge, brs. SSE. & NNW., desc.
35.95 Gulch 50 lks. wide, course SSE. asc.
39.90 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,
S. 3 $\frac{1}{4}$ in N.,
S. 10 in S. half, and
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
- 43.80 Top of rocky point, Brs. N. & S. desc. grad.
76.00 Desc. prec.
79.30 To cor. of secs. 3, 4, 9 & 10.
Land, mts. broken.
Soil, 3rd rate, stony.
No timber.
Undergrowth, scrub oak, cedar, pinon. Wood grass on mesas.
-
- N. $0^{\circ}2'$ W., bet. secs. 3 & 4
Over mts. land, asc. steep. SW. slope, through dense
scrub oak, over rough granite boulders.
- 10.00 Asc. grad., over rough barren granite ledges.
40.00 Set an iron post 3 ft long, 1 in. in diam. on barren
granite ledge, in mound of stone, for $\frac{1}{4}$ sec. cor,
marked on brass cap,
S. 4 $\frac{1}{4}$ in W., and
S. 3 in E. half, and from which,
A pinon tree 6 ins. diam. brs. S. 76° W. 52 lks. dist.,
marked $\frac{1}{4}$ S. 4 B.T.
A pinon tree 6 ins. diam. brs. N. 66° E. 79 lks. dist.,
marked $\frac{1}{4}$ S. 3 B.T.
- 80.10 Intersect 6th Standard Parallel North at a point 22.30 chs.
E. of standard cor. of secs. 33 & 34, as recently
established by me and heretofore described.
At point of intersection, I
Set an iron post, 3 ft. long 2 ins. in diam. 24 ins. in
the ground for closing cor. of secs. 3 & 4,
marked on brass cap,
C. C. S. of centre,
T. 25 N., R. 13 W., S. 33, S. 34 in N. half, and
S. 3 in SE., and
S. 4 in SW. quadrants from which,
A cedar tree 10 ins. diam. brs. S. 61° E. 66 lks. dist.,
marked T. 24 N., R. 13 W. S. 3 C.C.B.T.
A pinon tree 6 ins. diam. brs. S. $10\frac{1}{2}^{\circ}$ W. 93 lks. dist.,
marked T. 24 N., R. 13 W. S. 4 C.C.B.T.
- Land, mts., broken.
Soil, 3rd rate, stony,
Timber, none.
Undergrowth, scrub oak, cedar, pinon, and other brush.
At this cor. at noon, l.m.t., I set off $16^{\circ}11'$ S. on the
decl. arc, and observe the sun on the meridian.
The resulting lat. is $35^{\circ}30\frac{1}{2}'$ N.

Chains.

N. 0° 3' W., bet. secs. 8 & 9
 Over mts. broken land, desc. through dense cedar.

9.50 Circular corral brs. East, 4 chs. dist. at head of
 broad draw, course SE.

12.90 Wash 20 lks. wide, course SE., asc. grad.

22.00 Top of ridge, brs. SE. & NW., low gap in same 5 chs. SE.
 desc.

28.50 On E. pt. of rocky ledge 40 ft. high desc. abrupt .

30.00 Desc. steep. NE. slope through jungle of scrub oak.

40.00 Set a volcanic stone 24x12x12 ins. 18 in mound of stone,
 on bed-rock, for 1/4 sec. cor., from which,
 A pinon tree 10 ins. diam. brs. N. 32° E. 69 lks. dist.,
 marked 1/4 S. 9 B.T.
 A cedar tree 14 ins. diam. brs. S. 10° W. 76 lks. dist.,
 marked 1/4 S. 8 B.T.

42.00 A spring in a gulch, brs. East, 5 chs. dist.

44.40 Gulch 50 lks. wide, course SE.,
 Asc. grad. over very stony broken ground through dense
 scrub oak, manzanita, cedar, and pinon.

58.10 Gulch 60 lks. wide, course SE.,

80.00 Mark a granite boulder in place, 30x12x10 ins. above ground
 for cor. of secs. 4, 5, 8 & 9, with 5 notches on S. & 4
 notches on E. edge, and from which,
 A cedar tree 10 ins. diam. brs. S. 45° E. 30 lks. dist.,
 marked T. 24 N., R. 13 W. S. 9 B.T.
 A cedar tree 6 ins. diam. brs. S. 39 1/2° W. 74 lks. dist.,
 marked T. 24 N., R. 13 W. S. 8 B.T.
 A cedar tree 10 ins. diam. brs. N. 86 1/2° W. 49 lks. dist.,
 marked T. 24 N., R. 13 W. S. 5 B.T.
 A ceadr tree 10 ins. diam. brs. N. 39° E. 50 lks. dist.,
 marked T. 24 N., R. 13 W. S. 4 B.T.

Land, rough, broken.
 Soil, 3rd rate, stony, gravelly.
 No timber,
 Undergrowth, scrub oak, manzanita, cedar, pinon.

East, on a random line bet. secs. 4 & 9.

40.00 Set temp. 1/4 sec. cor.,

79.90 Intersect cor. of secs. 3, 4, 9 & 10, whence I run,
 Wes West, on a true line, bet. secs. 4 & 9.
 Over brokne, mts. stony, land, through dense scrub
 oak, manzanita, scattering cedar and pinon.

6.30 Crozier canyon, 150 ft. deep, 100 lks. wide, at bottom,
 course SSE. asc.

20.00 Desc. steep, through huge granite boulders.

27.00 Top of rock point, brs. S. & N., desc.

38.00 Wash 50 lks. wide, course SE., asc. grad.

39.95 Set a granite stone 30x12x8 ins. on bed-rock, in mound
 of stone 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.,
 from which,
 A pinon tree 10 ins. diam. brs. N. 40° W. 57 lks. dist.,
 marked 1/4 S. 4 B.T.
 A cedar tree 10 ins. diam. brs. S. 24 1/2° W. 71 lks. dist.,
 marked 1/4 S. 9 B.T.

58.00 Top of rock ridge, brs. SSE. & NNW., desc. grad.

68.00 Wash 50 lks. wide, course SSE.

79.90 To cor. of secs. 4, 5, 8 & 9.
 Land, Mts., broken.
 Soil, 3rd rate, stony.
 No timber.
 Undergrowth, scrub oak, cedar pinon, manzanita.

Chains.

- N. $0^{\circ} 3'$ W., bet. secs. 4 & 5.
Over broken stony, mts. land, through dense acrub oak, manzanita, scattering cedar and pinon.
Asc. grad.
- 40.00 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., from
No bearings available.
- 75.00 Top of knoll, brs. N. & S., desc.
- 80.22 Intersect 6th Standard Parallel North at a point 22.40 chs. E. of Standard cor. of secs. 32 & 33, as recently established by me and hereofore described.
At point of intersection, I
Set an iron post 3 ft. long 2 ins. diam. 24 ins. in the ground for closing cor. of secs. 4 & 5, marked on brass cap, C.C. on S. of centre.
T. 25 N., R. 13 W., S. 32, S. 33 in N. half, S. 4 in SE., and S. 5 in SW. quadrants, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high S. of cor., from which,
A pinon tree 6 ins. diam. brs. S. 84° E. 65 lks. dist., marked T. 24 N., R. 13 W. S. 4 C.C.B.T.
A pinon tree 6 ins. diam. brs. S. 63° W. 110 lks. dist., marked T. 24 N., R. 13 W. S. 5 C.C.B.T.
- Land? mts., very broken.
Soil, 3rd rate, gravelly, stony.
No timber,
Undergrowth, scrub oak, manzanita, cedar, pinon.
Nov. 7, 1910.
-
- Nov. 8, 1910.
At 8h a.m., l.m.t., at the cor. of secs. 7, 8, 17 & 18, I set off $16^{\circ} 24'$ S. on the decl. arc, and $35^{\circ} 28\frac{1}{2}'$ N. on the lat. arc, and determine a true meridian with the solar.
Thence I run,
N. $0^{\circ} 3'$ W., bet. secs. -7 & 8.
Over broken mts. land, asc. through scattering cedar.
- 10.00 Top of spur, brs. SE. & NW., thence along E. side of same.
- 20.45 Top of flat spur, brs. ESE. & WNW., desc.
- 35.00 Gulch 30 lks. wide, course ESE. & 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 W. face, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor., from which,
A cedar tree 14 ins. diam. brs. S. 75° E. 13 lks. dist., marked $\frac{1}{4}$ S. 8 B.T.
A cedar tree 10 ins. diam. brs. S. 19° W. 44 lks. dist., marked $\frac{1}{4}$ S. 7 B.T.
- 52.00 Top of E. end of high butte, brs. E. & W., desc. prec.
- 60.00 Gulch 50 lks. wide, course ESE., asc. pre c. SE. slope.
- 71.00 E. end of high rocky point, desc.
- 80.00 Mark cross (x) on grnaite ledge, 6x5x2 ft. above ground for cor. of secs. 5, 6, 7 & 8, with 5 grooves on S. & E. of cross, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor., from which,
A cedar tree 6 ins. diam. brs. S. 32° E. 72 lks. dist., marked T. 24 N., R. 13 W. S. 8 B.T.
- No other bearings available.
Land rough and mts.
Soil, 3rd rate, very stony.
No timber.
Undergrowth, scattering cedar, pinon. scrub oak.

Chains.

- N. $89^{\circ}58'E.$, on a random line bet. secs. 5 & 8.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.92 Intersect N. & S. line at point 5 lks. S. of cor. of
 secs. 4, 5, 8 & 9, whence I run,
 S. $89^{\circ}56' W.$, on a true line, bet. secs. 5 & 8.
 Over broken mts. land through dense cedar, manzanita,
 and scrub oak.
 15.00 Wash 30 lks. wide, course S., asc. grad.
 21.50 Wash, 40 lks. wide, course SSE., asc. grad.
 27.00 Draw 150 lks. wide, course SE., near head, asc. steep.
 39.96 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, from which,
 A cedar tree 6 ins. diam. brs. N. $80^{\circ}E.$ 36 lks. dist.,
 marked $\frac{1}{4}$ S. 5 B.T.
 A cedar tree 8 ins. diam. brs. S. $44^{\circ}E.$ 80 lks. dist.,
 marked $\frac{1}{4}$ S. 8 B.T.
 55.43 Top of ridge, brs. SSE. & NNE. High pt. 2 chs. SE.
 desc.
 70.00 Gulch 80 lks. wide, course SE.
 Water in same, 4 chs. to N. asc. prec.
 79.92 To cor. of secs. 5, 6, 7 & 8.
 At this cor. at noon, ~~1. m. t.~~, I set off $16^{\circ}29'$ S. on the decl.
 arc, and observe the sun on the meridian.
 The resulting lat. is $35^{\circ}29\frac{1}{2}' N.$
 Land, mts. broken.
 Soil, 3rd rate, stony. gravelly.
 No timber.
 Undergrowth, scrub oak, manzanita. pinon, cedar.
-
- S. $89^{\circ}57' W.$, on a random line, bet. secs. 6 & 7.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 78.00 Intersect W. bdy. of Tp. at point 5 lks. N. of cor. of
 secs. 1, 6, 7 & 12, whence I run,
 N. $89^{\circ}55' E.$, on a true line, bet. secs. 6 & 7.; descending.
 14.00 ^{TOP OF MESA} Gulch, 30 lks. wide, course SE. Ascend.
 38.00 Set a granite stone 20x10x10 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.
 (32.00) Gulch 50 lks. wide, course SSW. asc. prec.)
 60.00 Dividing ridge, brs. SSE. & NNW., desc.
 65.00 Gulch 50 lks. wide, course SE., asc.
 74.00 Top of butte on spur, brs. SE. & NW., desc. prec.
 78.00 To cor. of secs. 5, 6, 7 & 8.
 Land, mts. broken.
 Soil, 3rd rate, very stony.
 No timber.
 Undergrowth, scrub oak, cedar, pinon.

Chains.

- N. $0^{\circ} 3'$ W., bet. secs. 5 & 6.
 Over broken, mts. stony land, through dense cedar.
- 10.00 Wash, 80 lks. wide, course SSE.
- 22.00 Same wash, course SSW., asc. grad. Leave cedar. E. & W.
- 40.00 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.
 No bearings available.
- Asc. grad. through dense manzanita and scub oak.
- 80.30 Intersect 6th Standard Paralle N. at a point 22.52 chs. E. of Standard cor. of secs. 31 & 32, as recently established by me and heretofore described.
- At point of intersection I
 Set an iron post 3 ft. long 2 ins. in diam. 24 ins. in the ground for closing cor. of secs. 5 & 6, marked on brass cap,
 C.C. on S. of centre,
 T. 25 N., R. 13 W., S. 31, S. 32, Mn N. half,
 S. 5 in SE., and
 S. 6 in SW. quadrants, and
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high S. of cor., from which,
 A cedar tree 15 ins. diam. brs. S. $81\frac{1}{2}^{\circ}$ E. 93 lks. dist., marked T. 24 N., R. 13 W. S. 5 C.C.B.T.
 A cedar tree 15 ins. diam. brs. S. 55° W. 122 lks. dist., marked T. 24 N., R. 13 W. S. 6 C.C.B.T.
- Land, mts. broken.
 Soil, 3rd rate, gravelly.
 Timber, few cedars and pinons.
 Undergrowth, scrub oak, cedar, manzanita, pinon.
- Nov. 8, 1910.

General Description.

This Tp. is very rough and broken in general, lying mostly on a high broken mesa, drainage to the SE. The soil is principally a granite gravel, with a little lime in places, and covered in the western portions partly with volcanic scoria.

The General Elevation of the western edge of the high mesa is about 5,000 ft.

There is considerable timber in some portions as noted, and most of the land is good grazing.

Part of the Tp. is inaccessible to traverse with a pack animal so in many instances I have set stones as corners instead of the iron posts as furnished by the Government.

There is considerable water in some of the deeper canyons, but only in such places as are used for watering stock.

There is only one settler in the Tp.
 T. J. Walters occupies a part of the SW. $\frac{1}{4}$ of sec. 26, and has good houses, barns, corrals etc., and cultivates a small area of land from water piped from Crozier canyon.

Jesse B. Wright
 U.S. Surveyor.

LIST OF NAMES.

A list of the names of the individuals employed by Jesse B. Wright, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of The Subdivisional lines surveyed under Group 9, Arizona.

showing the respective capacities in which they acted:

- Frank L. Crofoot, Herbert Worcester, Chainman.
Edgar M. Donnell, Walter J. Thompson, Chainman.
James R. Smith, Tom Noonan, Moundman.
Bart Tyson, Rex Haskins, Moundman.
Sus Kuetzig, Axman.
Edgar Morris, Axman.
James Morrow, Louis Van Meter, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Jesse B. Wright, United States Deputy Surveyor, in surveying all those parts or portions of the The subdivisional lines surveyed under Group 9, Arizona,

of the Gila & Salt River Base & meridian, Ter. of Arizona, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Arizona.

- Frank L. Crofoot, Herbert Worcester, Chainman.
Edgar M. Donnell, Walter J. Thompson, Chainman.
Tom Noonan, James R. Smith, Moundman.
Bart Tyson, Rex Haskins, Moundman.
Sus Kuetzig, Axman.
Edgar Morris, Axman.
James Morrow, Louis Van Meter, Flagman.

Subscribed and sworn to before me this 18th day of May, 1911

Jesse B. Wright, U.S. Surveyor



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BOOK 2294

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Jesse B Wright, United States Deputy Surveyor, do solemnly swear that, in pursuance of a ^{instructions} contract received from Frank Ingalls United States Surveyor General for Arizona, bearing date of the 16th day of September, 1910, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Arizona, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the subdivision lines included under Group 9 Arizona

of the G & S R meridian, in the Territory of Arizona, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Arizona and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Jesse B Wright
United States Deputy Surveyor.

Subscribed by said Jesse B Wright, and sworn to before me }
this 7th day of August, 1911

Frank Ingalls
U.S. Surveyor General for Arizona



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Ariz. March 25, 1912

The foregoing field notes of the survey of the subdivision lines of
T24 N. R 13 W, G & S R, Meridian, Arizona

executed by Jesse B Wright U.S. Surveyor
under his contract No. 9, 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 Ingalls
United States Surveyor General.

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

United States Surveyor General.