

FIELD NOTES

OF THE SURVEY OF THE

2299

Fragmentary

Subdivision of T. 5 N. R. 14 W.

2299

Of the *Gand 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, 1911/899* 2299

Survey commenced *Dec. 27*, 1910

Survey completed *Dec. 31*, 1910

2299

2299

1A-58

For Caths, see Book B.

BOOK 2299

INDEX DIAGRAM.

Township 25 N., Range 14 W.

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

Note:

6-151

For W. Bdy. see Book A. Group 10.
 " " " " " B " "

Chains.

Survey commenced Dec. 27, 1910, and executed with a W. & L. E. Gurley light mountain transit, special make, unnumbered, with Burt's patent solar attachment. The horizontal limb of the instrument is provided with two double verniers placed opposite to each other, and each reading to 1' of arc, which is also the least reading of the verniers of the latitude and declination arcs.

At the Std. Cor. of secs. 35 & 36, on the South boundary of the township, I examine and test carefully all the adjustments of the transit and solar attachment, and finding same correct; then, in order to test the solar apparatus, by comparing the results of observations on the sun, for meridian, made during p.m. & a.m. hours, respectively, with a true meridian determined by observation of Polaris,

I proceed as follows :-

At 4h p.m., l.m.t., at the Standard cor. of secs. 35 & 36, recently established by me, and heretofore described,

Group 10,

Book B,

in lat. $35^{\circ}30'34''$ N., long. $113^{\circ}44'13''$ W. I set off $23^{\circ}17'$ S. on the decl. arc, and $35^{\circ}30\frac{1}{2}'$ N. on the lat. arc, and determine a meridian with the solar, and mark a point in the meridian thus determined by a tack in a stake driven firmly in the ground 5.00 chs. N. of my station.

Dec. 27, 1910.

Dec. 28, 1910.

At 1h 45m a.m., l.m.t., I observe Polaris at W. elongation, in accordance with instructions in the "Manual", and mark the line thus determined by a tack in a stake driven firmly in the ground 6 chs. N. of my station.

At 8h a.m., l.m.t., I set off the azimuth of Polaris, $1^{\circ}26'$ to the East, and mark the true meridian thus determined by a tack in the stake 5 chs. N. of my station, which point falls .45 ins. E. of the point as determined by the solar on preceding evening.

Then I set off $23^{\circ}14\frac{1}{2}'$ S. on the decl. arc, and $35^{\circ}30\frac{1}{2}'$ N. on the lat. arc, and determine a meridian with the solar, and mark a point in the meridian thus determined by a tack in the stake 5 chs. N. of my station, which point falls .25 ins. E. of the point determined by observation of Polaris.

The solar apparatus, by p.m. & a.m. observations, defines positions for meridians, about $24''$ W., and $13''$ E., respectively, of the meridian as determined by Polaris observation.

These errors being probably the ordinary errors of observation, I conclude that the instrument is in satisfactory adjustment.

The magnetic bearing of the true meridian at 8h a.m., is N. $15^{\circ}25'$ W.; the angle thus determined gives the magnetic declination as $15^{\circ}25'$ E.

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

Chains.	N. 0° 1' W., bet. secs. 35 & 36. Over mts. land, desc.
2.00	Gulch 50 lks. wide, course W., asc.
12.00	Spur, brs. W. & E., desc.
20.00	Gulch 50 lks. wide, course WNW., asc.
35.00	W. point of spur, brs. W. & E.
38.00	Gulch 30 lks. wide, course W., asc.
40.00	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 35 in W., and S. 36 in E. half, raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
60.00	Top of high rocky ridge, brs. WNW. & ESE.
78.00	Stony wash, 80 lks. wide, course WNW.
80.00	Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for cor. of secs. 25, 26, 35 & 36, marked on brass cap, T. 25 N., R. 14 W. in N. half, S. 26 in NW., S. 25 in NE., S. 36 in SE., and S. 35 in SW. quadrants, No bearings available. raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
	Land, mts., rough. Soil, 2nd & 3rd rate, stony. No timber. Undergrowth, palonegro, cacti. Scant grass. To the north and east of this cor. the land rises in a succession of bluffs so rough and mountainous as to be impracticable to survey by the ordinary methods. Therefore, I eliminate same from my surveys.
	N. 0° 1' W., bet. secs. 34 & 35. Over gently rolling land, asc. grad.
40.00	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 34 in W., and S. 35 in E. half, dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
57.45	Wash, 25 lks. wide, course W.
76.80	Wash, 100 lks. wide, course WSW.
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. 25 N., R. 14 W. in N. half, S. 27 in NW., S. 26 in NE., S. 35 in SE., and S. 34 in SW. quadrants, dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
	Land, gently rolling, level. Soil, 2nd rate, sandy, gravelly, dry. Sparse mesquite, greasewood. Good native grass.
	East, on a random line, bet. secs. 26 & 35.
40.00	Set temp. $\frac{1}{4}$ sec. cor.,
80.08	Intersect cor. of secs. 25, 26, 35 & 36, whence I run, West, on a true line, bet. secs. 25 & 36. Over broken, land, desc. grad.
16.00	Stony wash, 50 lks. wide, course WNW. thence along foot of N. slope of spur.
20.00	Asc. NE. slope of spur.

Chains.

- 40.04 Set an iron post 3 ft. long, 1 in. in diam. 20 ins. in the ground, in mound of stone, on bed-rock, for $\frac{1}{4}$ sec. cor. marked on brass cap,
 $\frac{1}{4}$ S. 26 in N., and
 S. 35 in S. half,
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
 Cor. on top of N. point of spur.
 Desc.
- 42.50 Foot of slope, brs. NE. & SW. desc. grad.
- 59.00 Wash, 30 lks. wide, course SW.
- 65.50 Wash, 15 lks. wide, course WSW.
- 80.08 To cor. of secs. 26, 27, 34 & 35.
 Land, broken, mts., rolling.
 Soil, 2nd & 3rd rate, stony, gravelly.
 Scattering greasewood, cacti, mesquite, palonegro.
 Good native grass in valley.
 At this cor. at noon,, I set off $23^{\circ}17'$ S. on the decl. arc, and observe the sun on the meridian.
 The resulting lat. is $35^{\circ}42'$ N.

N. $0^{\circ}1'$ W., bet. secs. 26 & 27.

- Over broken rolling land, asc. grad.
- 22.50 Wash, 120 lks. wide, course W.
- 11.00 Wash, 60 lks. wide, course WSW.
- 16.55 Wash, 50 lks. wide, course WNW.
- 25.70 Wash, 20 lks. wide, course W.
- 29.10 Wash, 30 lks. wide, course WSW.
- 40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 27 in W., and
 S. 26 in E. half,
 dig pits $18 \times 18 \times 12$ ins. N. & S. of cor. 3 ft. dist., and
 raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 57.00 W. point of rocky spur, brs. NW. & SE.
 Thence along near foot of main slope of mts.
- 75.00 Gulch 50 lks. wide, course WSW., asc. steep.
- 79.00 Top of point, brs. W. & E., desc.
- 80.00 Set an iron post 3 ft. long, 2 ins. in diam. 12 ins. in the ground, on bed-rock, in mound of stone, for cor. of secs. 22, 23, 26 & 27, marked on brass cap,
 T. 25 N., R. 14 W. in N. half,
 S. 22 in NW.,
 S. 23 in NE.,
 S. 26 in SE., and
 S. 27 in SW. quadrants,
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 Land, rolling, broken.
 Soil, 2nd rate, gravelly., dry.
 Sparse sage brush, Mesquite, cacti. Good native grass.

N. $0^{\circ}1'$ W., bet. secs. 22 & 23.

- Over broken, mts. land, desc. grad.
- 29.20 Gulch 80 lks. wide, course WSW., asc. grad.
- 37.00 Foot of main slope, brs. NW. & SE., asc. steep. SW. slope.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 22 in W., and
 S. 23 in E. half,
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 80.00 Impracticable to set iron post,
 Set a granite stone $24 \times 10 \times 10$ ins., on bed-rock, in mound of stone for cor. of secs. 14, 15, 22 & 23, marked with 3 notches on S. & 2 notches on E. edges, and
 raise a mound of stone $\frac{3}{4}$ ft. base, 2 ft. high W. of cor.
 Land, mts., rolling. Soil, 2nd & 3rd rate, gravelly, stony.
 Scattering mesquite, cacti. Good grass in valley.
 To the north and east of this cor. the land is so rough and mts. as to be impracticable to survey.

Dec. 28, 1910.

Chains Dec. 29, 1910.
 At 8h a.m., l.m.t., at the Std. cor. of secs. 33 & 34,
 on the S. bdy. of Tp.,
 I set off 25° 1' S., on the decl. arc, and 35° 40' N. on the
 lat. arc, and determine a true meridian with the solar.
 Thence I run,
 N. 0° 2' W., bet. secs. 33 & 34.
 Over gently rolling land,
 12.18 Wash, 30 lks. wide, course W.
 18.00 Wash, 50 lks. wide, course SW.
 21.25 Wash, 30 lks. wide, course SW.
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
 the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 33 in W., and
 S. 34 in E. half,
 dig pits, 18x18x12 ins. N. & S. of cor. 3 ft. dist., and
 raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 50.30 Wash, 10 lks. wide, course W.
 55.11 Wash, 10 lks. wide, course W.
 80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in
 the ground for cor. of secs. 27, 28, 33 & 34,
 marked on brass cap,
 T. 25 N., R. 14 W. in N. half,
 S. 28 in NW.,
 S. 27 in NE.,
 S. 34 in SE., and
 S. 33 in SW. quadrants,
 dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and
 raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
 Land, gently rolling.
 Soil, 2nd rate, sandy, gravelly, loose., dry.
 Scattering greasewood, sage brush, cacti. Good native
 grass.

East on a random line, bet. secs. 27 & 34.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.08 Intersect N. & S. line at point 7 lks. N. of cor. of
 secs. 26, 27, 34 & 35, whence I run,
 N. 89° 57' W., on a true line, bet. secs. 27 & 34.
 Desc. grad., in valley, dense low sage brush,
 scattering mesquite.
 27.60 Wash, 20 lks. wide, course WSW.
 40.04 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
 the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 27 in N., and
 S. 34 in S. half,
 dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and
 raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
 50.00 Enter wash from N., course WSW.
 64.00 Leave wash, runs, WSW.
 79.00 Same wash, course WNW.
 80.08 To cor. of secs. 27, 28, 33 & 34.
 Land, rolling,
 Soil, 2nd rate, sandy, gravelly.
 Scattering mesquite. Dense low sage brush.
 Good native grass in places.

Chains.

- N. $0^{\circ} 2'$ W., bet. secs. 27 & 28.
 over broken, rolling land, asc. grad.
- .30 Wash, 20 lks. wide, course W.
- 16.00 Wash, 50 lks. wide, course W.
- 20.00 Wash, 100 lks. wide, course W.
- 39.20 Wash, 100 lks. wide, course WSW.
- 40.00 Point for $\frac{1}{4}$ sec. cor. falls in wash.
- 40.20 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for witness cor. to $\frac{1}{4}$ sec. cor., marked on brass cap,
 WC $\frac{1}{4}$ N. of centre
 S. 27 in SE., and
 S. 28 in SW. quadrants,
 dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 43.80 Wash, 10 lks. wide, course WSW.
- 63.00 Wash, 100 lks. wide, course W.
- 71.70 Wash, 60 lks. wide, course WSW.
- 80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for cor. of secs. 21, 22, 27 & 28, marked on brass cap,
 T. 25 N., R. 14 W. in N. half,
 S. 21 in NW.,
 S. 22 in NE.,
 S. 27 in SE., and
 S. 28 in SW. quadrants,
 dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
 Land, rolling, broken.
 Soil, 2nd rate, sandy, gravelly.
 Scattering greasewood, mesquite, cacti. Good native grass.
 At this cor. at noon, . . . , I set off $23^{\circ} 14'$ N. on the decl. arc, and observe the sun on the meridian.
 The resulting lat. is $35^{\circ} 42\frac{1}{2}'$ N.
-
- S. $89^{\circ} 57'$ E., on a random line, bet. secs. 22 & 27.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.10 Intersect N. & S. line at point 5 lks. S. of cor. of secs. 22, 23, 27 & 28, whence I run, N. $89^{\circ} 59'$ W., on a true line, bet. secs. 22 & 27.
 Over rolling land, desc. NW. slope.
- 4.00 Foot of slope, brs. NE. & SW., desc. grad.
- 40.05 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 22 in N., and
 S. 27 in S. half,
 dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
- 68.40 Wash, 100 lks. wide, course SW.
- 76.30 Wash, 60 lks. wide, course SW.
- 80.10 To cor. of secs. 21, 22, 27 & 28.
 Land, rolling.
 Soil, 2nd rate, gravelly, dry, loose.
 Scattering mesquite, sage brush. Good grass in valley.

Chains.

- N. 0° 2' W., bet. secs. 21 & 22.
Over rolling land.
- 4.00 Wash, 30 lks. wide, course SW.
- 13.45 Wash, 20 lks. wide, course SW.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 21 in W., and S. 22 in E. half, raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 41.62 Wash, 50 lks. wide, course WSW.
- 55.00 Wash, 200 lks. wide, course SW.
- 70.90 Wash, 200 lks. wide, course SW.
- 80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for cor. of secs. 15, 16, 21 & 22, marked on brass cap, T. 25 N., R. 14 W. in N. half, S. 16 in NW., S. 15 in NE., S. 22 in SE., and S. 21 in SW. quadrants, dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
Land, rolling, very broken.
Soil, 2nd rate, gravelly, loose, dry.
Sparse sage brush, mesquite. Good native grass.
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- S. 89° 59' E., on a random line, bet. secs. 15 & 22.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.10 Intersect N. & S. line at point 2 lks. S. of cor. of secs. 14, 15, 22 & 23, whence I run, West, on a true line, bet. secs. 15 & 22.
Mts. land, desc. steep W. slope.
- 15.00 Foot of main slope, brs. NNE. & SSW. desc. grad.
- 20.00 Wash, 300 lks. wide, course SW.
- 22.00 Wash, 100 lks. wide, course SW.
- 40.05 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 15 in N., and S. 22 in S. half, raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
- 55.00 South point of spur, brs. NESW & SW.
- 55.00 Wash, 100 lks. wide, course SW.
- 60.00 Wash, 120 lks. wide, course SW.
- 70.00 Near SW. point of spur, brs. SW. & NE.
- 80.10 To cor. of secs. 15, 16, 21 & 22.
Land, rolling, broken.
Soil, 2nd rate, sandy, loose, gravelly.
Scattering mesquite, cacti, sage brush.
Good native grass in valleys.

Dec. 29, 1910.

Chains.

- Dec. 30, 1910.
 At 8h a.m., l.m.t., at the Std. cor. of secs. 32 & 33,
 on the S. bdy. of Tp.,
 I set off $23^{\circ} 8'$ S. on the decl. arc, and $35^{\circ} 40\frac{1}{2}'$ N. on the
 lat. arc, and determine a true meridian with the solar.
 Thence I run,
 N. $0^{\circ} 3'$ W., bet. secs. 32 & 33.
 Over gently rolling plain.
- 2.00 Wash, 50 lks. wide, course WSW.
 35.00 Wash, 50 lks. wide, course WSW.
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
 the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 32 in W., and
 S. 33 in E. half,
 dig pits $18 \times 18 \times 12$ ins. N. & S. of cor. 3 ft. dist., and
 raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 70.58 Wash, 100 lks. wide, course W.
 75.63 Wash, 100 lks. wide, course W., 2 washes join 15 chs. W.
 80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in
 the ground for cor. of secs. 28, 29, 32 & 33,
 marked on brass cap,
 T. 25 N., R. 14 W. in N. half,
 S. 29 in NW.,
 S. 28 in NE.,
 S. 33 in SE., and
 S. 32 in SW. quadrants,
 dig pits $18 \times 18 \times 12$ ins. in each sec. $5\frac{1}{2}$ ft. dist., and
 raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
 Land, rolling,
 Soil, 2nd rate, sandy, gravelly, loose, dry.
 Scattering sage brush, greasewood. Good native grass.
-
- East, on a random line, bet. secs. 28 & 33.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.98 Intersect N. & S. line at point 12 lks. N. of cor. of
 secs. 27, 28, 33 & 34, whence I run,
 N. $89^{\circ} 55'$ W., on a true line, bet. secs. 28 & 33.
 Over gently undulating land, drains SW.
- 7.67 Wash, 100 lks. wide, course SW.
 19.24 Wash, 100 lks. wide, course SW.
 38.00 Wash, 100 lks. wide, course SW.
 39.99 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
 the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 28 in N., and
 S. 33 in S. half,
 dig pits $18 \times 18 \times 12$ ins. E. & W. of cor. 3 ft. dist., and
 raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
- 79.98 To cor. of secs. 28, 29, 32 & 33.
 Land, gently rolling.
 Soil, 2nd rate, loose, dry, sandy, gravelly.
 Scattering greasewood, sage brush. Good native grass.
-

chains.

N. 0° 3' W., bet. secs. 28 & 29.
 Over gently undulating plain, asc. grad:
 23.52 Wash, 10 lks. wide, course SW.
 38.80 Wash, 15 lks. wide, course SW.
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
 the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 29 in W., and
 $\frac{1}{4}$ S. 28 in E. half,
 dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and
 raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 49.55 Wash, 10 lks. wide, course SW.
 73.30 Wash, 20 lks. wide, course SW.
 76.60 Wash, 50 lks. wide, course SW.
 80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in
 the ground for cor. of secs. 20, 21, 28 & 29,
 marked on brass cap,
 T. 25 N., R. 14 W. in N. half,
 S. 20 in NW.,
 S. 21 in NE.,
 S. 28 in SE., and
 S. 29 in SW. quadrants,
 dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and
 raise a mound of earth $4\frac{1}{2}$ ft. base, 2 ft. high W. of cor.
 Land, gently rolling.
 Soil, 2nd rate, loose, sandy, gravelly, dry.
 Sparse sage brush, greasewood, mesquite. Good grass.
 At this cor. at noon, I set off 23° 10' S. on the
 decl. arc, and observe the sun on the meridian.
 The resulting lat. is 35° 52½' N.

S. 89° 55' E., on a random line, bet. secs. 21 & 28.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.96 Intersect N. & S. line at cor. of secs. 21, 22, 27 & 28,
 whence I run,
 N. 89° 55' W., on a true line, bet. secs. 21 & 28.
 Desc. grad., over gently undulating valley.
 8.48 Wash, 50 lks. wide, course SW.
 15.00 Wash, 20 lks. wide, course SW.
 30.00 Wash, 70 lks. wide, course SW.
 38.60 Wash, 20 lks. wide, course SW.
 39.98 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
 the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 21 in N., and
 $\frac{1}{4}$ S. 28 in S. half,
 dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and
 raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
 75.00 Wash, 50 lks. wide, course SW.
 79.96 To cor. of secs. 20, 21, 28 & 29.
 Land, gently rolling.
 Soil, 2nd rate, loose, dry sandy, loam, some gravel.
 Scattering greasewood, mesquite, cacti.
 Good native grass.

Chains.

- N. 0° 3' W., bet. secs. 20 & 21.
Over gently rolling, land, asc. grad., through scattering greasewood, dense bunch grass.
- 9.70 Wash, 50 lks. wide, course SW.
19.42 Wash, 25 lks. wide, course SW.
32.92 Wash, 30 lks. wide, course SW.
38.00 Wash, 100 lks. wide, course SW.
40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 20 in W., and S. 21 in E. half, raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 60.00 Wash, 60 lks. wide, course SW., confluence of washes.
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. 25 N., R. 14 W. in N. half, S. 17 in NW., S. 16 in NE., S. 21 in SE., and S. 20 in SW. quadrants, raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Land, gently rolling, broken. Soil, 2nd rate, gravelly, loose, dry. Scattering greasewood, sage brush. Good bunch grass.
-
- S. 89° 55' 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° 55' W., on a true line, bet. secs. 16 & 21. Over rolling land, along, near foot of S. slope.
- 16.00 Foot of slope, brs. NE. & SW., asc. steep.
24.00 Top of rocky spur, brs. NE. & SW., point is 5 chs. SSW.
28.00 Desc.
32.00 Foot of slope, , desc. grad.
32.20 Wash, 100 lks. wide, course SSW.
39.97 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 16 in N., and S. 21 in S. half, raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
- 44.95 Wash, 20 lks. wide, course SW.
68.80 Wash, 30 lks. wide, course WSW.
75.32 Wash, 40 lks. wide, course SW.
79.94 To cor. of secs. 16, 17, 20 & 21. Land, rolling. Soil, 2nd rate, gravelly, loose. Scattering greasewood, sage brush, cacti. Good native grass. To the north of this cor. the land is so rough as to be impracticable to survey. Dec. 30, 1910.

Chains.

Dec. 31, 1910.
 At 8h a.m., l.m.t., at the Std. cor. of secs. 31 & 32, on the S. bdy. of the Tp.,
 I set off 23° 4' S. on the decl. arc, and 35° 30' on the lat., and determine a true meridian with the solar.

Thence I run,
 N. 0° 3' W., bet. secs. 31 & 32.
 Over nearly level plain, scattering greasewood, loose, sandy soil, good native grass.

22.47 Wash, 100 lks. wide, course W.
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for 1/4 sec. cor., marked on brass cap, 1/4 S. 31 in W., and 1/4 S. 32 in E. half,

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

43.25 Wash, 50 lks. wide, course W.

49.61 Road, brs. NW. & SE.

75.85 Wash, 15 lks. wide, course W.

80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for cor. of secs. 29, 30, 31 & 32; marked on brass cap,
 T. 25 N., R. 14 W. in N. half,
 S. 30 in NW.,
 S. 29 in NE.,
 S. 32 in SE., and
 S. 31 in SW. quadrants,
 dig pits 18x18x12 ins. in each sec. 5 1/2 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
 Land, slightly undulating.
 Soil, 2nd rate, loose, sandy loam.
 Scattering greasewood, and sage brush. Good native grass.

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

40.00 Set temp. 1/4 sec. cor.
 80.00 Intersect N. & S. line at point 7 lks. N. of cor. of secs. 28, 29, 32 & 33, whence I run, N. 89° 57' W., on a true line, bet. secs. 29 & 32.
 Over gently undulating valley.

24.00 Wash, 50 lks. wide, course SW.

40.00 Set an iron post 3 ft. long, 2 ins. in diam. 26 ins. in the ground for 1/4 sec. cor., marked on brass cap, 1/4 S. 29 in N., and 1/4 S. 32 in S. half,

dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high N. of cor.

55.46 Wash, 50 lks. wide, course SW.

80.00 To cor. of secs. 29, 30, 31 & 32.
 Land, gently undulating. Soil, 2nd rate, loose, sandy.
 Scattering greasewood, sange brush. Good native grass.

West, on a random line, bet. secs. 30 & 31.

40.00 Set temp. 1/4 sec. cor.
 79.94 Intersect W. bdy. of Tp. at point 7 lks. S. of cor. of secs. 25, 30, 31 & 36, whence I run, S. 89° 57' W., on a true line, bet. secs. 30 & 31.
 Over level valley.

39.94 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for 1/4 sec. cor., marked on brass cap, 1/4 S. 30 in N., and 1/4 S. 31 in S. half,

dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high N. of cor.

52.00 Old road, brs. WNW. & ESE.

65.00 Old road, brs. NW. & SE.

79.94 To cor. of secs. 29, 30, 31 & 32.
 Land, level.
 Soil, 2nd rate, loose, sandy.
 Sparse sage brush. Good native grass.

Chains.

- N. 0° 3' W., bet. secs. 29 & 30.
Over gently rolling land, asc. grad., through scattering greasewood.
- 13.40 Wash, 35 lks. wide, course W.
24.17 Wash, 20 lks. wide, course W.
40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 30 in W., and S. 29 in E. half, dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 45.65 Wash, 20 lks. wide, course W.
50.90 Wash, 20 lks. wide, course W.
79.90 Wash, 15 lks. wide, course W.
80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for cor. of secs. 19, 20, 29 & 30, marked on brass cap, T. 25 N., R. 14 W. in N. half, S. 19 in NW., S. 20 in NE., S. 29 in SW., and S. 30 in SW. quadrants, dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
Land, gently rolling.
Soil, 2nd rate, loose, sandy.
Scattering greasewood, sage brush. Good native grass.
-
- S. 89° 57' E., on a random line, bet. secs. 20 & 29.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
80.02 Intersect cor. of secs. 20, 21, 28 & 29, whence I run, N. 89° 57' W., on a true line, bet. secs. 20 & 29.
Over gently rolling valley, desc. grad. through dense greasewood.
- 9.24 Wash, 20 lks. wide, course SW.
31.32 Wash, 10 lks. wide, course SW.
40.01 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 20 in N., and S. 29 in S. half, dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
- 49.00 Wash, 50 lks. wide, course SW.
71.00 Wash, 30 lks. wide, course WSW. and turns W. at 1 ch. SW.
80.02 To cor. of secs. 19, 20, 29 & 30.
Land, gently rolling.
Soil, 2nd rate, loose, dry, sandy loam.
Dense greasewood, sage brush. Good native grass.
At this cor. at noon, clouds obscure the sun.
Impracticable to observe the lat.
-
- N. 89° 57' W., on a random line, bet. secs. 19 & 30.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
79.87 Intersect W. bdy. of Tp. at cor. of secs. 19, 24, 25 & 30, whence I run, S. 89° 57' E., on a true line, bet. secs. 19 & 30.
Over smooth valley land, asc. gently.
- 27.00 Wash, 30 lks. wide, course WSW.
39.87 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 19 in N., and S. 30 in S. half, dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
- 66.65 Wash, 30 lks. wide, course SW.
79.87 To cor. of secs. 19, 20, 29 & 30.
Land, nearly level, drains WSW., Soil, 2nd rate, sandy, loose.
Sparse sage brush, greasewood, Grass, fair.

Chains.	
	N. 0° 3' W., bet. secs. 19 & 20.
	Asc. grad., through dense greasewood.
4.75	Wash, 15 lks. wide, course SW.
21.20	Wash, 30 lks. wide, course WSW.
35.60	Wash, 40 lks. wide, course W.
40.00	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 19 in W., and S. 20 in E. half, dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
64.00	Asc. steep, stony S. slope of butte.
79.00	Top of butte, 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. 17, 18, 19 & 20, marked on brass cap, T. 25 N., R. 14 W. in N. half, S. 18 in NW., S. 17 in NE., S. 20 in SE., and S. 19 in SW. quadrants, raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
	Land, rolling.
	Soil, 2nd rate, loose, sandy, gravelly, stony.
	Dense greasewood, sage brush. Good grass in valley.
	S. 89° 57' E., on a random line, bet. secs. 17 & 20.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect N. & S. line at point 2 lks. N. of cor. of secs. 16, 17, 20 & 21, whence I run, N. 89° 56' W., on a true line, bet. secs. 17 & 20. Over mts. broken, rolling land, slopes S.
1.74	Wash, 15 lks. wide, course SW.
7.25	Wash, 100 lks. wide, course S.SW. asc.
15.00	Top of rocky S. slope of spur, foot is 6 chs. S. Desc.
20.00	Foot of hill, brs. N. & S.
24.78	Gulch 50 lks. wide, course S., heads 20 chs. to N.
26.00	Asc. steep.
32.00	Top of rocky spur, brs. S. & N., foot is 10 chs. S. desc.
40.00	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 17 in N., and S. 20 in S. half, raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
42.00	Foot, brs. NW. & SW.
50.00	Asc.
53.00	Top of small butte, brs. NE. & SW., desc.
63.00	Low pass between buttes, asc.
80.00	To cor. of secs. 17, 18, 19 & 20.
	Land, mts., broken.
	Soil, 2nd & 3rd rate, gravelly, stony.
	Scattering mesquite, greasewood, sage brush.
	Good native grass.

Chains.

- N. 89°57' W., on a random line, bet. secs. 18 & 19.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.80 Intersect cor. of secs. 13, 18, 19 & 24, on the W. bdy. of Tp.,
 whence I run,
 S. 89°57' E., on a true line, bet. secs. 18 & 19.
 Over gently rolling land, asc. grad.
 7.34 Wash, 20 lks. wide, course SW.
 22.00 Wash, 20 lks. wide, course SW.
 35.18 Wash, 50 lks. wide, course SW.
 Thence along N. side of butte, near foot of slope.
 39.80 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
 the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 18 in N., and
 S. 19 in S. half,
 raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high N. of cor.
 61.80 Wash, 40 lks. wide, course SW.
 63.00 Asc. rocky NW. slope of butte.
 79.80 To cor. of secs. 17, 18, 19 & 20.
 Land, rolling,
 Soil, 2nd rate, sandy, gravelly, stony.
 Scattering greasewood, sage brush, mesquite.
 Good native grass in valley.
 Here I discontinue the subdivision of this Tp., as the
 lands to the north and north-east of this cor. are so
 rough and broken and mts. as to be impracticable to
 survey.
 Dec. 31, 1910.

--- General Description, T. 25 N., R. 14 W. ---

The SW. portion of this Tp. as surveyed, is in general a gently rolling, somewhat broken plain, near the foot of the main slope of the Music Mountains. The soil is in general a loose, sandy or gravelly loam, and would produce well with irrigation. There is no water or timber in the portion surveyed, nor any trace of settlers or other occupation of the land. All of this valley land is good grazing land. There is a little water in several of the gulches to the NE., at places inaccessible to cattle, but which could be piped down to the valley and used for watering cattle there. There is no water available for irrigation. The SE., NE., and NW. portions of this T. as omitted from my surveys, are so rough, broken, and mountainous, as to be impracticable to survey by the ordinary methods of surveying public lands. The lands therein are barren granite boulders and ledges and cliffs rising in a succession of bluffs to a broken mesa 3500 ft. above the valley. The NE. cor. of this Tp. may touch on this mesa, which is covered with a fair growth of cedar and pinon. There are no indications of mineral in the part of the Tp. as surveyed.

James T. Wright
 U.S. Surveyor.

APPROVAL.

BOOK 2299

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix Ariz March 25, 1917

The foregoing field notes of the survey of *the fragmentary Subdivision of*
J 75 N. R 14 W. B & S R. Meadwin, Arizona

executed by *Geo. B. Hight, U.S. Surveyor*
under his special instructions dated *Sept. 16*, 1916, having been
critically examined, and the necessary corrections and explanations made, the said field notes, and the
surveys they describe, are hereby approved.

Frank J. Ingalls
U. S. Surveyor General.