

SEP 3-1912

Book "7"

G.L.O. letter "E" Nov. 10-1913.

# FIELD NOTES

RE  
OF THE SURVEY OF THE

Township Boundaries, Group 14.

North Boundary T. 21 N., R. 14 W.

South, West, and North Boundaries T. 25 N., R. 17 W.

West, and North Boundaries T. 27 N., R. 17 W.

Of the Gila and Salt River Base and Meridian,

Arizona.

In the State of

EXECUTED BY

Jesse B. Wright,

In the capacity of U. S. Surveyor, under instructions dated August 24, 1911, issued by the United States Surveyor General to govern surveys included in Group No. 14, which were approved by the Commissioner of the General Land Office, September 28, 1911, pursuant to authority contained in the Act of Congress dated June 25, 1910.

Survey commenced Feb. 2, 1912, 191

Survey completed Feb. 21, 1912, 191

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Survey commenced Feb. 2, 1912, and executed with a Young & Son's light mountain transit No. 6492, with Smith's patent solar attachment on side.

The plates of the instrument read to single minutes of arc by two double verniers placed opposite to each other, which is also the least reading of the verniers of the latitude and declination arcs.

At my camp near the centre of T. 21 N., R. 14 W., I examine and test all the adjustments of transit and solar apparatus; and finding same correct; then, in order to test the solar apparatus by comparing the results of observations for meridians made on the sun during p.m. & a.m. hours respectively, with a true meridian as determined by observation of Polaris, I proceed as follows :

At 4h p.m., l.m.t., at a point near my camp, I set off 16°55'S. on the decl. arc, and 35°12'N. on the lat. arc, and determine a meridian with the solar, and mark the meridian thus determined by a tack in a stake driven firmly in the ground 5 chs. N. of my station.

At 10h 36m p.m., l.m.t., I observe Polaris at Western Elongation, in accordance with instructions in the "Manual", and mark the line thus determined by a tack in a stake driven firmly in the ground 6 chs. N. of my Station. Feb. 2, 1912.

Feb. 3, 1912.

At 7h 45m a.m., l.m.t., I set off the azimuth of Polaris, 1°25' 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 .10 ins. W. of the point in the meridian as determined by the solar on preceding afternoon.

At 8h a.m., l.m.t., I set off 16°44½'S. on the decl. arc, and 35°12'N. on the lat. arc, and determine a meridian with the solar, and mark the meridian thus determined by a tack in the stake 5 chs. N. of my station, which point falls .15 ins. W. 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 6" E., and 8" W., respectively, of the true meridian as determined by Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory, as these errors are no greater than the usual errors of observation.

The magnetic bearing of the true meridian at 8h a.m., is N. 15°50' W.; the angle thus determined gives the magnetic declination as 15°50' E.

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At 9h a.m., l.m.t., at the cor. of Tps. 21 & 22 N., Rs. 13 & 14 W., which is an iron post 3 ins. in diam. 1 ft. above ground, with brass cap, marked and witnessed as described by the Surveyor-General, lat. 35°14'49" N., long. 113°42'50" W., I set off 16°45'S. on the decl. arc, and 35°15'N. on the lat. arc, and determine a meridian with the solar, thence I run, as per instructions, var. 15°50' E.,

Chains.

West, on a random line, on North Bdy. of Tp., setting temp. cors. at intervals of 40.00 and 80.00 chs., and also making diligent search for the old corners on this line as described in the field notes furnished by the Surveyor-General; finding no trace of any of these old corners,

At 5 miles 79.49 chs., I intersect the West bdy. of the Tp. Tp. at a point 83 lks. S. of the cor. of Tps. 21 & 22 N., Rs. 14 & 15 W., which is an iron post 3 ins. in diam., 1 ft. above ground, with brass cap, marked and witnessed as described by the Surveyor-General, whence I run,

S. 89°54' E., on a true line bet. secs. 6 & 31, on the North bdy. of the Tp.

Over rolling grassy valley, var. 15°50' E.

39.49 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 N., and  
S 6 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.

At this cor., at noon, I set off 16°43' S. on the decl. arc, and observe the sun on the meridian.

The resulting lat. is 35°15' N.

79.49 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 5, 6, 31 & 32, marked on brass cap, T 22 N in N.,

T 21 N. in S., and  
R 14 W in W. half,  
S 31 in NW.,  
S 32 in NE.,  
S 5 in SE., and  
S 6 in SW. quad.;

raise a mound of stone 2 ft. base, 1 1/2 ft. high W. of cor. Land, rolling. Soil, 3rd rate, sandy, loose loamy. Sparse sage brush, cacti, fine grass.

S. 89°54' E., bet. secs. 5 & 32.

Over rolling land, asc. slightly, through palonegro.

22.50 Wash, 10 lks. wide, course N. 88° W. Leave valley, brs. N. & S.

23.75 Same wash, course WSW. Asc. steep rocky ridge.

38.00 Top of ridge, brs. NE. & SW., desc.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for 1/4 sec. cor., marked on brass cap,

1/4 S 32 in N., and  
S 5 in S. half;

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

46.00 Wash, 8 lks. wide, course SW., asc.

68.00 Top of ridge, brs. SW. & NE., desc.

73.00 Wash, 10 lks. wide, course SW., asc.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 4, 5, 32 & 33, marked on brass cap, T 22 N in N.,

T 21 N in S., and  
R 14 W in W. half,  
S 32 in NW.,  
S 33 in NE.,  
S 4 in SE., and  
S 5 in SW. quad.;

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

Land, rolling, mts.

Soil, 3rd rate, gravelly, stony.

Sage brush, cacti, palonegro, fair grass.

Feb. 3, 1912.

Chains.

Feb. 4, 1912.  
 At 8h a.m., l.m.t., at the above described corner,  
 I set off 16°26' S. on the decl. arc, and 35°15' N. on  
 the lat. arc, and determine a meridian with the solar.  
 Thence I run,  
 S. 89°54' E., bet. secs. 4 & 33.  
 Over mts. land, desc. through scattering cedar, scrub  
 oak and palonegro.  
 3.55 Wash, 150 lks. wide, course SW.  
 8.00 Foot of high rocky hill, asc. along SSW. slope.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
 the ground for 1/4 sec. cor., marked on brass cap,  
 1/4 S 33 in N., and  
 S 4 in S. half;  
 raise a mound of stone 2 ft. base, 1 1/2 ft. high N. of cor.  
 57.50 Top of N. end of saddle, brs. NNW. & SSE., asc.  
 72.00 Cross spur, brs. ESE. & WNW., desc. along N. side of  
 same.  
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in  
 the ground for cor. of secs. 3, 4, 33 & 34, marked on  
 brass cap, T 22 N in N.,  
 T 21 N in S., and  
 R 14 W in W. half; } S 33 in NW.  
S 34 in NE.  
S 3 in SE. and  
S 4 in SW. quadrant  
 raise a mound of stone 2 ft. base, 1 1/2 ft. high W. of cor.  
 Land, mts., broken.  
 Soil, 3rd rate, stony, dry.  
 Cedar, palonegro, scrub oak, fair grass.

S. 89°54' E., bet. secs. 3 & 34.  
 Over mts. land, desc. through scrub oak & cedar.  
 4.30 Wash, 20 lks. wide, course SE., asc.  
 15.50 Ridge, brs. SE. & NW., desc.  
 17.35 Wash, 10 lks. wide, course SE., asc.  
 28.00 Ridge, brs. SE. & NW., desc.  
 33.00 Wash, 15 lks. wide, course SE., asc.  
 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 34 in N., and  
 S 3 in S. half; from which,  
 A cedar tree 8 ins. diam. brs. S. 16 1/2° E. 160 s. dist.,  
 marked 1/4 S 3 B T.  
 A cedar tree 6 ins. diam. brs. N. 50 1/4° W. dist.,  
 marked 1/4 S 34 B T.  
 55.00 Top of ridge, brs. N. & S., desc. on  
 80.00 Set an iron post 3 ft. long, 3 ins.  
 the ground for cor. of secs. 2, 3  
 brass cap, T 22 N in N.,  
 T 21 N in S., and  
 R 14 W in W. half;  
 S 34 in NW.,  
 S 35 in NE.,  
 S 2 in SE., and  
 S 3 in SW. quad.;  
 raise a mound of stone 2 ft. base, 1 1/2 ft. high W. of cor.  
 Land, mts., broken.  
 Soil, 3rd rate, gravelly stony.  
 Sparse cedar, scrub oak, palonegro.  
 At this cor., at noon, I set off 16°25 1/2' S. on the decl.  
 arc, and observe the sun on the meridian.  
 The resulting lat. is 35°15' N.

Re-survey of North Boundary T. 21 N., R. 14 W.

Chains  
 S. 89°54' E., bet. secs. 2 & 35.  
 Over mts. land, desc. through cedar & palonegro.  
 8.80 Gulch, 20 lks. wide, course NE., asc.  
 20.00 A high butte brs. 15 chs. to S.  
 27.00 Wash, 80 lks. wide, course SSE. 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 N., and S 2 in S. half; from which,  
 A cedar tree 6 ins. diam. brs. N. 16° W. 52 lks. dist., marked  $\frac{1}{4}$  S 35 B T.  
 A cedar tree 6 ins. diam. brs. S. 59° W. 44 lks. dist., marked  $\frac{1}{4}$  S 2 B T.  
 Desc. grad. from cor.  
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1, 2, 35 & 36, marked on brass cap, T 22 N in N., T 21 N in S., and R 14 W in W. half; S 35 in NW., S 36 in NE., S 1 in SE., and S 2 in SW. quad.; from which,  
 A cedar tree 6 ins. diam. brs. N. 43° E. 181 lks. dist., marked T 22 N R 14 W S 36 B T.  
 A cedar tree 8 ins. diam. brs. S. 73° E. 11 lks. dist., marked T 21 N R 14 W S 1 B T.  
 A palonegro 6 ins. diam. brs. S. 45° W. 66 lks. dist., marked T 21 N R 14 W S 2 B T.  
 A cedar tree 8 ins. diam. brs. N. 49° W. 112 lks. dist., marked T 22 N R 14 W S 35 B T.  
 Land, mts. Soil, 3rd rate, gravelly, stony, loose.  
 Sparse cedar, scrub oak, palonegro, fair grass.

S. 89°54' E., bet. secs. 1 & 36.  
 Over mts. land, desc. grad. through scattering cedar.  
 25.00 Gulch, 50 lks. wide, course NE., asc. stony NE. slope.  
 30.00 Asc. steep. leave cedar & brush., brs. NW. & SE.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 36 in N., and S 1 in S. half;  
 raise a mound of stone 2 ft. base, 1 1/2 ft. high N. of cor.  
 45.15 Top of N. side of high rocky butte, brs. N. & S., desc. steep.  
 60.00 Foot of main slope, brs. NW. & SE., desc. grad.  
 76.00 Wash, 80 lks. wide, course ESE.  
 80.00 To cor. of Tps. 21 & 22 N., R. 13 & 14 W.  
 Land, mts., rolling. Soil, 3rd rate, stony; gravelly.  
 Few cedars, good grass.

-General Description.-

The North Boundary of T. 21 N., R. 14 W. runs over a rough broken country across the South end of the Peacock Mountains. The land is covered with a fair growth of native bunch grass, and is of no value except for grazing purposes.

Boundaries of T. 21 N., R. 14 W.

Latitudes, departures, and closing errors.

Line designated.	True bearing.	Dist. Chs.	Latitudes.		Departures.	
			N. Chs.	S. Chs.	E. Chs.	W. Chs.
South Boundary,	West, ----	480.00	-----	-----	-----	480.00
West Boundary,	North, ---	480.00	480.00	-----	-----	-----
North Boundary,	S. 89°54' E.	479.49	-----	0.83	479.49	-----
East Boundary,	South, ---	480.00	-----	480.00	-----	-----
Convergency,	-----	-----	-----	-----	0.51	-----
Totals,		-----	480.00	480.83	480.00	480.00
				480.00		480.00
			Error lat.	-0.83	Error dep.	0.00

Feb. 4, 1912,

Jesse B. Wright

U.S. Surveyor.

Survey commenced Feb. 12, 1912, and executed with a Young & Son's light mountain transit No. 6492, with Smith's patent solar attachment on side.

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.

I examine and test all the adjustments of transit and solar attachment, and correct the levels and line of collimation of the transit and also correct an index error of 1' as noted in the latitude arc of the solar; then, in order to test the solar apparatus, by comparing the results of observations of the sun for meridians, made during p.m. & a.m. hours, respectively, with a true meridian as determined by observation of Polaris, I proceed as follows :

At 5h p.m., l.m.t., at the cor. of Tps. 25 & 26 N., Rs. 16 & 17 W., which is an iron post 3 ins. in diam. 1 ft. above ground, with brass cap, marked and witnessed as described by the Surveyor-General, lat.  $35^{\circ}35'47''$  N., long.  $114^{\circ}02'18''$  W.,

I set off  $13^{\circ}50'S$ . on the decl. arc, and  $35^{\circ}36'N$ . on the lat. arc, and determine a meridian with the solar, and mark the meridian thus determined by a tack in a stake driven firmly in the ground 5 chs. N. of my station.

At 9h 57m p.m., l.m.t., I observe Polaris at Western elongation, in accordance with instructions in the "Manual", and mark the line thus determined by a tack in a stake driven firmly in the ground 6 chs. N. of my Station.

Feb. 12, 1912.

Feb. 13, 1912.

At 8h a.m., l.m.t., I set off the azimuth of Polaris,  $1^{\circ}25\frac{1}{2}'$  to the East, and mark the true meridian thus determined by a tack in the stake 5 chs. N. of my station, which point falls .50 ins. E. of the point in the meridian as determined by the solar on preceding afternoon.

Then I set off  $35^{\circ}36'N$ . on the lat. arc, and  $13^{\circ}37\frac{1}{2}'S$ . on the decl. 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 .20 ins. E. of the point in the true meridian as determined by observation of Polaris.

The solar apparatus, by p.m. & a.m. hours observations defines positions for meridians about  $30''$  W., and  $10''$  E., respectively of the true meridian as established by Polaris observations; therefore, from these observations, I conclude that my instrument is in satisfactory adjustment.

The magnetic bearing of the true meridian at 8h a.m. is  $N. 16^{\circ} W.$ ; the angle thus determined gives the magnetic declination as  $16^{\circ} E.$

From the cor. above described, I run on a random line West, and search diligently at intervals of 40.00 and 80.00 chs. for the original corners as established on this line. I also examine a part of the West bdy. of this Tp. for some trace of the old corners.

Failing to find any trace whatever of any of the original corners, it is therefore necessary to re-survey the S. W., and N. bdrs. of Tps. 26 N., R. 17 W.

Feb. 13, 1912.

Feb. 14, 1912.

At 8h a.m., l.m.t., at the cor. of Tps. 25 & 26 N., Rs. 16 & 17 W., as above described, I set off  $35^{\circ}36'N$ . on the lat. arc, and  $13^{\circ}17\frac{1}{2}'S$ . on the decl. arc, and determine a meridian with the solar, thence I run,

Chains.

West, on South bdy. of Tp., bet. secs. 1 & 36.  
Over level valley, sparse grass, Var. 16 E.

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 36 in N., and  
S 1 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, 12 ft. high N. of cor.

53.40 Wash, 50 lks. wide, course NW.

60.40 Wash, 50 lks. wide, course NNW.

69.40 Wash, 50 lks. wide, course N.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in  
the ground for cor. of secs. 1, 2, 35 & 36, marked on  
brass cap, T 26 N in N.,

T 25 N in S., and  
R 17 W in W. half,  
S 35 in NW.,  
S 36 in NE.,  
S 1 in SE., and  
S 2 in SW. quad.;

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, level, drains to N. Soil, 3rd rate, loose, sandy loam.  
Sparse sage brush and grass.

West, bet. secs. 2 & 35.

Over gently undulating valley, asc. slightly.

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 35 in N., and  
S 2 in S. half;

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

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in  
the ground for cor. of secs. 2, 3, 34 & 35, marked on  
brass cap, T 26 N in N.,

T 25 N in S., and  
R 17 W in W. half,  
S 34 in NW.,  
S 35 in NE.,  
S 2 in SE., and  
S 3 in SW. quad.;

dig pits 18x18x12 ins. in each sec. 5 1/2 ft. dist., and  
raise a mound of earth 4 ft. base, 2 ft. high W. of cor.

Land, rolling gently. Soil, 3rd rate, loose sandy.  
Sparse sage brush, cacti, fair grass.

West, bet. secs. 3 & 34.

Over gently rolling valley, asc. grad.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
the ground for 1/4 sec. cor., marked on brass cap,

1/4 S 34 in N., and  
S 3 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.

45.50 Road, Kingman to Gold Basin, brs. N. & S.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in  
the ground for cor. of secs. 3, 4, 33 & 34, marked on  
brass cap, T 26 N in N.,

T 25 N in S., and  
R 17 W in W. half,  
S 33 in NW.,  
S 34 in NE.,  
S 3 in SE., and  
S 4 in SW. quad.;

dig pits 18x18x12 ins. in each sec. 5 1/2 ft. dist., and  
raise a mound of earth 4 ft. base, 2 ft. high W. of cor.

Land, rolling. Soil, 3rd rate, sandy, loose. Sparse grass,

## Re-survey of South Boundary T. 26 N., R. 17 W.

7

- Chains West, bet. secs. 4 & 33.  
 Over rolling land, asc. grad., good bunch grass.
- 20.00 Enter greasewood, brs. N. & S.  
 30.00 Wash, 20 lks. wide, course ENE.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
 the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  
 $\frac{1}{4}$  S 33 in N., and  
 S 4 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.  
 At this cor., at noon, I set off  $13^{\circ}15'$  S. on the decl.  
 arc, and observe the sun on the meridian.  
 The resulting lat. is  $35^{\circ}36'$  N.
- 55.10 Wash, 20 lks. wide, course ESE.  
 57.40 Wash, 20 lks. wide, course ESE.  
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in  
 the ground for cor. of secs. 4, 5, 32 & 33, marked on  
 brass cap, T 26 N in N.,  
 T 25 N in S., and  
 R 17 W in W. half,  
 S 32 in NW.,  
 S 33 in NE.,  
 S 4 in SE., and  
 S 5 in SW. quad.;  
 raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high W. of cor.  
 Land, rolling.  
 Soil, 3rd rate, sandy, gravelly, loose.  
 Greasewood, sage brush, fair grass.
- 
- West, bet. secs. 5 & 32.  
 Over rolling land, asc. grad., through dense cacti and  
 greasewood.
- 38.60 Wash, 30 lks. wide, course NE.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
 the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  
 $\frac{1}{4}$  S 32 in N., and  
 S 2 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.
- 69.30 Wash, 50 lks. wide, course ENE., asc., leave valley, N & S.  
 72.00 Top of rise, on S. side near foot of hill.  
 Top of rocky hill brs. N. 6 chs. dist., desc.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in  
 the ground for cor. of secs. 5, 6, 31 & 32, marked on  
 brass cap, T 26 N in N.,  
 T 25 N in S., and  
 R 17 W in W. half;  
 S 31 in NW.,  
 S 32 in NE.,  
 S 5 in SE., and  
 S 6 in SW. quad.;  
 dig pits 18x18x12 ins. in each sec.  $5\frac{1}{2}$  ft. dist., and  
 raise a mound of earth 4 ft. base, 2 ft. high W. of cor.  
 Land, rolling.  
 Soil, 3rd rate, sandy, gravelly, loose.  
 Greasewood, cacti, sage brush, fair grass.  
 A corral brs. N.  $60^{\circ}$  W., about 12 chs. dist.

## Chains.

West, bet. secs. 6 & 31.

Over rolling land, open, good grass.

At 12 chs. on line, asc. prec. E. slope of rocky peak, up which I cannot chain; therefore, from the cor. of secs. 5, 6, 31 & 32,

I measure a base line of 8.00 and 10.00 chs. to the South, after sending a man ahead and placing a flag on line on the top of the peak, west from the cor.

At 8 chs. on this base, the flag to the west,

brs. N. 74° 58' W., the angle subtended is therefore

74° 58' : dist. to flag is  $\text{tang. } 74^\circ 58' \cdot 3.7234 \times 8 = 29.79$  chs.

At 10.00 chs. on this base, the flag to the west,

brs. N. 71° 27' W., the angle subtended is therefore

71° 27' : dist. to flag is  $\text{tang. } 71^\circ 27' \cdot 2.9800 \times 10 = 29.80$  chs.

My triangulations checking closely, and assuming the longer base more correct, at

29.80 To flag on top of high rocky peak, brs. WSW. & ENE.

36.00 Desc. along WNW. slope, very rough.

40.00 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,  $\frac{1}{4}$  S 31 in N., and S 6 in S. half;

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

Thence along rough stony N. slope of mountain.

Allowing 51 lks. for convergency, at

79.49 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of Tps. 25 & 26 N., Rs. 17 & 18 W., marked on brass cap,

T 26 N in N.,

R 17 W in E.,

T 25 N in S., and

R 18 W in W. half,

S 36 in NW.,

S 31 in NE.,

S 6 in SE., and

S 1 in SW. quad.;

raise a mound of stone 4 ft. base, 2 ft. high S. of cor.

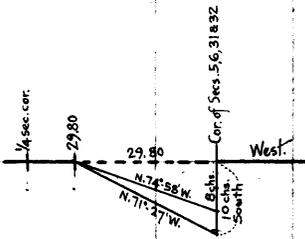
No bearings available.

Land, mts., rough.

Soil, 3rd & 4th rate, gravelly, stony.

Sparse brush and cacti, native grass.

Feb. 14, 1912.



Chains.

Feb. 15, 1912.

Having searched for the old corners along several miles of this line, and finding no traces of same, and knowing from retracements of many miles of the old lines in the district that the old corners, if existing are in a very dilapidated condition, and far out of limits both in measurement and alinement,

At 8h 30m a.m., l.m.t., at the cor. of Tps. 25 & 26 N., Rs. 17 & 18 W., re-established & described by me yesterday

I set off 12°57'S. on the decl. arc, and 35°36'N. on the lat. arc, and determine a meridian with the solar. Thence I run, on range line, on West bdy. of Tp.,

North, bet. secs. 31 & 36.,

Var. 16° E.

Over mts. land, desc. steep stony N. slope.

16.00 Foot of main slope, brs. E. & W.

18.50 Wash, 150 lks. wide, course E.

24.00 Asc.

37.00 Top of spur, brs. E. & W., desc.

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 36 in W., and

S 31 in E. half;

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

Asc. from cor.

47.75 Rocky spur, brs. E. & W., desc.

60.00 Stony wash, 150 lks. wide, course ENE., asc. prec.

76.90 Top of high stony ridge, brs. E. & W., desc. prec.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 25, 30, 31 & 36, marked on brass cap, T 26 N in N. half,

R 18 W S 25 in NW.,

R 17 W S 30 in NE.,

S 31 in SE., and

S 36 in SW. quad.;

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

Land, mts., very rough.

Soil, 3rd rate, stony.

Palonegro, cacti, greasewood, sparse grass.

North, bet. secs. 25 & 30.

Over mts. land, desc. steep.

10.00 Foot of N. slope, thence along broken stony E. slope.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for 1/4 sec. cor., marked on brass cap,

1/4 S 25 in W., and

S 30 in E. half;

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

At this cor., at noon, I set off 12°55'S. on the decl. arc, and observe the sun on the meridian.

The resulting lat. is 35°37'N.

70.00 Gulch, 150 lks. wide, course ESE., asc. prec.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 19, 24, 25 & 30, marked on brass cap, T 26 N in N. half,

R 18 W S 24 in NW.,

R 17 W S 19 in NE.,

S 30 in SE., and

S 25 in SW. quad.;

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

Land, mts., rough.

Soil, 3rd rate, stony, gravelly.

Scattering greasewood, palonegro, cacti, fair grass.

Chains. North, bet. secs. 19 & 24.  
 Over mts. land, asc. prec. E. foothills Cerbat Mts.  
 10.00 Top of high rocky peak, apex 2 chs. E., thence along  
 prec. W. slope.  
 13.15 Desc. prec. NW. slope.  
 20.00 Gulch, 150 lks. wide, course E., thence along stony  
 foot of west 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 24 in W., and  
 S 19 in E. half;  
 raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high W. of cor.  
 40.60 Gulch, 150 lks. wide, course E. asc. prec. SE. slope.  
 30.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in  
 the ground for cor. of secs. 13, 18, 19 & 24, marked on  
 brass cap, T 26 N in N. half,  
 R 18 W S 13 in NW.,  
 R 17 W S 18 in NE.,  
 S 19 in SE., and  
 S 24 in SW. quad.;  
 raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high W. of cor.  
 Land, mts., very rough and broken.  
 Soil, 3rd & 4th rate, stony.  
 Sparse greasewood, cacti, brush, native grass.  
 Feb. 15, 1912.

Feb. 16, 1912.

At 8h a.m., l.m.t., at the above described corner, I set off  $12^{\circ}36\frac{1}{2}'$  S. on the decl. arc, and  $35^{\circ}38\frac{1}{2}'$  N. on the lat. arc, and determine a meridian with the solar.  
 Thence I run,

North, bet. secs. 13 & 18.  
 Over mts. land, asc. steep.  
 15.60 Top of high rocky ridge, hrs. E. & W.  
 desc. prec. N. slope.  
 32.05 Gulch 400 ft. deep, 150 lks. wide, course E., asc. prec.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
 the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  
 $\frac{1}{4}$  S 13 in W., and  
 S 18 in E. half;  
 raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high W. of cor.  
 56.07 Top of rocky ridge, hrs. E. & W., desc. prec.  
 60.00 Gulch, 50 lks. wide, near head, course ESE., thence  
 along SSE. slope, asc.  
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in  
 the ground for cor. of secs. 7, 12, 13 & 18, marked on  
 brass cap, T 26 N in N. half,  
 R 18 W S 12 in NW.,  
 R 17 W S 7 in NE.,  
 S 18 in SE., and  
 S 13 in SW. quad.;  
 raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high W. of cor.  
 Land, rough, mts., broken.  
 Soil, 3rd rate, very stony.  
 Sparse cacti, native grass, scrub oak.  
 At this cor., at noon, I set off  $12^{\circ}34\frac{1}{2}'$  S. on the decl.  
 arc, and observe the sun on the meridian. The resulting  
 lat. is  $35^{\circ}39'$  N.

## Chains.

- North, bet. secs. 7 & 12.  
Over mts. land, asc.
- 1.00 Top of rocky spur, brs. NE. & SW., desc. steep. N. slope.  
20.00 Foot, and along W. side of ridge, near W. foot.  
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 12 in W., and  
S 7 in E. half;  
raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high W. of cor.  
40.50 Small spur, brs. WNW. & ESE.  
Thence over very broken land, many small ridge, trend  
to NW.  
65.00 Asc. steep.  
78.55 Top of rocky ridge, brs. NW. & SE., near NW. end.  
Desc. prec.  
80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in  
the ground for cor. of secs. 1, 6, 7 & 12, marked on  
brass cap, T 26 N in N.,  
R 18 W S 1 in NW.,  
R 17 W S 6 in NE.,  
S 7 in SE., and  
S 12 in SW. quad.;  
raise a mound of stone 3 ft. base,  $1\frac{1}{2}$  ft. high W. of cor.  
Land, mts., very broken.  
Soil, 3rd & 4th rate, stony, gravelly, dry.  
Scrub oak, greasewood, cacti, fair grass.

- North, bet. secs. 1 & 6.  
Over mts. land, desc. steep N. slope.
- 12.00 Foot of main slope, brs. E. & W., desc. grad., through  
dense cacti and yucca.  
22.00 Wash, 50 lks. wide, course NW., thence over rolling land.  
40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  
 $\frac{1}{4}$  S 1 in W., and  
S 6 in E. half;  
dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and  
raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high W. of cor.  
79.00 Wash, 30 lks. wide, course NNE.  
80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in  
the ground for cor. of Tps. 26 & 27 N., Rs. 17 & 18 W.,  
marked on brass cap,  
T 27 N in N.,  
R 17 W in E.,  
T 26 N in S., and  
R 18 W in W. half,  
S 36 in NW.,  
S 31 in NE.,  
S 6 in SE., and  
S 1 in SW. quad.;  
dig pits 24x24x12 ins. on each line, N., E. & W., 4 ft.,  
and S. of cor. 8 ft. dist., and  
raise a mound of earth 5 ft. base,  $2\frac{1}{2}$  ft. high S. of cor.  
Land, mts., rolling.  
Soil, 3rd rate, stony, gravelly, sandy.  
Cacti, greasewood, sage brush, fair grass.  
Feb. 16, 1912.

Chains.

Feb. 17, 1912.

At 8h a.m., l.m.t., at the cor. of Tps 26 & 27 N., Rs. 16 and 17 W., which is an iron post 3 ins. in diam. 1 ft. above ground, with brass cap, marked and witnessed as described by the Surveyor-General, I set off 12°16' S. on the decl. arc, and 35°41' N. on the lat. arc, and determine a meridian with the solar. Thence I run, as per instructions,

West, on a random line, on north bdy. of Tp.

At 5 miles, 79.18 chs., I intersect West bdy. of Tp. 14 lks. S. of the cor. of Tps. 26 & 27 N., Rs. 17 & 18 W. whence I run,

S. 89°59' E., on a true line, bet. secs. 6 & 31, Over rolling land, through dense cacti, fine grass.

- 1.00 Var. 16° E. Wash 30 lks wide course NW. from SW.
- 25.00 Leave W. valley, brs. N. & S., asc. volcanic hill.
- 35.00 Top of rocky volcanic hill, brs. N. & S., desc. steep.
- 39.18 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 N., and S 6 in S. half; raise a mound of stone 2 ft. base, 1 1/2 ft. high N. of cor.
- 52.00 Foot, brs. N. & S., near head of draw, in N. end of small valley., course S.
- 65.00 Asc. SW. slope.
- 79.18 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 5, 6, 31 & 32, marked on brass cap, T 27 N in N., T 26 N in S., and R 17 W in W. half; S 31 in NW., S 32 in NE., S 5 in SE., and S 6 in SW. quad.; raise a mound of stone 2 ft. base, 1 1/2 ft. high W. of cor. Land, mts., rolling. Soil, 3rd rate, sandy, gravelly, stony. Sage brush, cacti, greasewood, fair grass.

*Not stalked and assessed by me yesterday*

S. 89°59' E., bet. secs. 5 & 32. Over mts. land, asc. prec. SW. slope.

- 22.10 Top of volcanic ridge, brs. N. & S.
- 28.00 Desc. prec. E. slope.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., on bed-rock, in mound of stone for 1/4 sec. cor., marked on brass cap, 1/4 S 32 in N., and S 5 in S. half; raise a mound of stone 2 ft. base, 1 1/2 ft. high N. of cor.
- 50.00 Foot of slope, brs. NNW. & SSE., enter vally. brs. N. & S.
- 60.00 Enter dry, barren mud flat, called Red Lake, brs. NNW. & SSE.
- 64.00 Main road, Kingman to Gold Basin, brs. N. & S.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 4, 5, 32 & 33, marked on brass cap, T 27 N in N., T 26 N in S., and R 17 W in W. half, S 32 in NW., S 33 in NE., S 4 in SE., and S 5 in SW. quad.; 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, mts., rolling. Soil, 3rd & 4th rate, stony, sandy. Sparse greasewood, cacti. At this cor. at noon, I set off 12°14' S. on the decl. arc, and observe the sun on the meridian. The resulting lat. is 35°41' N.

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Chains. S. 89°59' E., bet. secs. 4 & 33.  
 Over dry, barren, level mud flat.

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 N., and  
 S 4 in S. half;  
 dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of cor.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 3, 4, 33 & 34, marked on brass cap, T 27 N in N.,  
 T 26 N in S., and  
 R 17 W in W. half,  
 S 33 in NW.,  
 S 34 in NE.,  
 S 3 in SE., and  
 S 4 in SW. quad.;  
 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, level. Soil, 4th rate, sandy, clayey. No vegetation.

S. 89°59' E., bet. secs. 3 & 34.  
 Over barren, level, mud flat.

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 N. and  
 S 3 in S. half;  
 dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of cor.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 2, 3, 34 & 35, marked on brass cap, T 27 N in N.,  
 T 26 N in S., and  
 R 17 W in W. half,  
 S 34 in NW.,  
 S 35 in NE.,  
 S 2 in SE., and  
 S 3 in SW. quad.;  
 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, level, Soil, 4th rate, sandy, clayey. No vegetation.

S. 89°59' E., bet. secs. 2 & 35.  
 Over barren mud flat.

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 N., and  
 S 2 in S. half;  
 dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of cor.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1, 2, 35 & 36, marked on brass cap, T 27 N in N.,  
 T 26 N in S., and  
 R 17 W in W. half,  
 S 35 in NW.,  
 S 36 in NE.,  
 S 1 in SE., and  
 S 2 in SW. quad.;  
 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, level.  
 Soil, 3rd & 4th rate, sandy, clayey.  
 Sparse sage brush.

Chains.

S. 89°59' E., bet. secs. 1 & 36.  
 Over level, barren mud flat.  
 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 36 in N., and S 1 in S. half; dig pits 10x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of cor.  
 80.00 To cor. of Tps. 26 & 27 N., Rs. 16 & 17 W., heretofore described. Land, level, Soil, 3rd & 4th rate, sandy, clayey. No vegetation.

-General Description.-

Boundaries of T. 26 N., R. 17 W.  
 The north and south boundaries of this Tp. run over a smooth open valley for the east four miles, thence ascending the west foot hills of the Cerbat Mountains. The land to the south of the Tp. is smooth and open for several miles; all of T. 25 N., R. 17 W. should be surveyed.

The west bdy. of T. 26 N., R. 17 W. runs over very rough, stony land along the east foot hills and ridges of the Cerbat Mountains. West of this line, the land rises rapidly, being extremely rough and mountainous for about 6 miles to the west.

There is no water on or near the boundaries of this Tp.

Boundaries of T. 26 N., R. 17 W.  
 Latitudes, departures, and closing errors.

Line designated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
		Chs.	Chs.	Chs.	Chs.	Chs.
South Boundary,	West, ----	479.49	-----	-----	-----	479.49
West Boundary,	North, ----	480.00	480.00	-----	-----	-----
North Boundary,	S. 89°59' E.	479.18	-----	--0.14	479.18	-----
East Boundary,	South, ----	480.00	-----	480.00	-----	-----
Convergency,	-----	-----	-----	-----	--0.51	-----
	Totals, .....	480.00	480.00	480.14	479.69	479.49
				<u>480.00</u>	<u>479.49</u>	-----
	Error in Latitude, .....			0.14	-----	-----
	Error in Departure, .....				0.20	-----

Feb. 17, 1912.

*Jesse B. Wright*

U. S. Surveyor.

Chains. Feb. 18, 1912.  
 At 8h 30m a.m., l.m.t., at the cor. of Tps. 26 & 27 N.,  
 Rs. 17 a 18 W., recently re-established & described by me  
 I set off  $11^{\circ}55'$  S. on the decl. arc, and  $35^{\circ}41'$  N. on  
 the lat. arc, and determine a meridian with the solar.  
 Thence I run, as per instructions,  
 North, on range line, bet. secs. 31 & 36.  
 Over rolling land, desc. grad., through scattering  
 cacti, and sage brush, fine native grass.

3.00 Wash, 110 lks. wide, course NNW.  
 7.50 Same was, course NNE.  
 17.00 Wash, 50 lks. wide, course NE.  
 40.00 Set an iron post 3 ft. long; 1 in. in diam. 26 ins. in  
 the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  
 $\frac{1}{4}$  S 36 in W., and  
 S 31 in E. half;  
 dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and  
 raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high W. of cor.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in  
 the ground for cor. of secs. 25, 30, 31 & 36, marked on  
 brass cap, T 27 N in N. half,  
 R 18 W S 25 in NW.,  
 R 17 W S 30 in NE.,  
 S 31 in SE., and  
 S 36 in SW. quad.;  
 dig pits 18x18x12 ins. in each sec.  $5\frac{1}{2}$  ft. dist., and  
 raise a mound of earth 4 ft. base, 2 ft. high W. of cor.  
 Land, rolling.  
 Soil, 3rd rate, sandy, gravelly.  
 Sage brush, cacti, greasewood, good grass.

North, bet. secs. 25 & 30.  
 Over rolling land.

6.00 Wash, 50 lks. wide, course NW.  
 10.00 Same wash, 50 lks. wide, course NE.  
 13.00 Wash, 50 lks. wide, course NE.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
 the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  
 $\frac{1}{4}$  S 25 in W., and  
 S 30 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.

49.60 Wash, 150 lks. wide, course NE.  
 59.00 Wash, 30 lks. wide, course ENE., runs through pass in  
 volcanic hills to E.  
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in  
 the ground for cor. of secs. 19, 24, 25 & 30, marked on  
 brass cap, T 27 N in N. half,  
 R 18 W S 24 in NW.,  
 R 17 W S 19 in NE.,  
 S 30 in SE., and  
 S 25 in SW. quad.;  
 dig pits 18x18x12 ins. in each sec.  $5\frac{1}{2}$  ft. dist., and  
 raise a mound of earth 4 ft. base, 2 ft. high W. of cor.  
 Land, rolling.  
 Soil, 3rd rate, sandy, gravelly, loose, dry.  
 Sage brush, cacti, greasewood, yucca, good grass.

## Chains.

North, bet. secs. 19 & 24.  
 Over rolling land, desc. grad., through dense cacti.  
 39.80 Wash, 30 lks. wide, course NE.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
 the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  
 $\frac{1}{4}$  S 24 in W., and  
 S 19 in E. half;  
 raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high W. of cor.  
 46.00 Wash, 150 lks. wide, course E.  
 48.00 Wash, 30 lks. wide, course E., asc. steep.  
 50.20 Top of E. end of rocky hill, brs. E. & W., desc.  
 54.00 Foot, brs. NW. & SE.  
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in  
 the ground for cor. of secs. 13, 18, 19 & 24, marked on  
 brass cap, T 27 N in N., half,  
 R 18 W S 13 in NW.,  
 R 17 W S 18 in NE.,  
 S 19 in SE., and  
 S 24 in SW. quad.;  
 dig pits 18x18x12 ins. in each sec.  $5\frac{1}{2}$  ft. dist., and  
 raise a mound of earth 4 ft. base, 2 ft. high W. of cor.  
 Land, rolling. Soil, 3rd rate, sandy, gravelly, stony.  
 Cacti, sage brush, yucca, good grass.  
 At this cor. at noon, I set off  $11^{\circ}52\frac{1}{2}'$  S. on the decl.  
 arc, and observe the sun on the meridian.  
 The resulting lat. is  $35^{\circ}43\frac{1}{2}'$  N.

North, bet. secs. 13 & 18.  
 Over rolling land, through dense cacti, drainage E.  
 11.00 Wash, 50 lks. wide, course NE.  
 34.00 Wash, 50 lks. wide, course E.  
 37.40 Wash, 20 lks. wide, course ESE.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
 the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  
 $\frac{1}{4}$  S 13 in W., and  
 S 18 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.  
 45.20 Road, brs. E. & W.  
 46.00 Wash, 50 lks. wide, course E.  
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in  
 the ground for cor. of secs. 7, 12, 13 & 18, marked on  
 brass cap, T 27 N in N. half,  
 R 18 W S 12 in NW.,  
 R 17 W S 7 in NE.,  
 S 18 in SE., and  
 S 13 in SW. quad.;  
 dig pits 18x18x12 ins. in each sec.  $5\frac{1}{2}$  ft. dist., and  
 raise a mound of earth 4 ft. base, 2 ft. high W. of cor.  
 Land, rolling.  
 Soil, 3rd rate, sandy, gravelly, loose, dry.  
 Sage brush, greasewood, cacti, good grass.

Chains.

North, bet. secs. 7 & 12.  
 Over rolling land, drains to E., through dense cacti, and scattering greasewood.

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 12 in W., and  
 S 7 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.

43.20 Road, brs. ESE. & WBW.

52.00 Wash, 50 lks. wide, course ENE.

66.75 Road, brs. NNE. & SSW.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1, 6, 7 & 12, marked on brass cap, T 27 N in N. half,  
 R 18 W S 1 in NW.,  
 R 17 W S 6 in NE.,  
 S 7 in SE., and  
 S 12 in SW. quad.;  
 dig pits 18x18x12 ins. in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.

Land, rolling. Soil, 3rd rate, sandy, gravelly, loose. Sage brush, greasewood, cacti, good grass.

North, bet. secs. 1 & 6.  
 Over rolling land, through cacti and greasewood, large yuccas.

9.70 Dim road, brs. E. & W.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  
 $\frac{1}{4}$  S 1 in W., and  
 S 6 in E. half;  
 dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high W. of cor.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of Tps. 27 & 28 N., Rs. 17 & 18 W., marked on brass cap,  
 T 28 N in N.,  
 R 17 W in E.,  
 T 27 N in S., and  
 R 18 W in W. half,  
 S 36 in NW.,  
 S 31 in NE.,  
 S 6 in SE., and  
 S 1 in SW. quad.;  
 dig pits 24x24x12 ins. on each line, E., W., and N. 4 ft., and S. of cor. 3 ft. dist., and raise a mound of earth 5 ft. base,  $2\frac{1}{2}$  ft. high S. of cor., from which,  
 Ranch House of Clay Springs Cattle Co., brs. S.  $76^{\circ}$  E.  
 A sharp peak, brs. N.  $50^{\circ}$  W., about 25 miles dist.  
 No trees available.

Land, rolling.  
 Soil, 3rd rate, sandy, gravelly, loose, dry.  
 Sage brush, cacti, yucca, greasewood, fair grass.  
 Feb. 18, 1912.

Chains.

Feb. 21, 1912.

At 8h a.m., l.m.t., at the cor. of Tps. 27 & 28 N., Rs. 16 & 17 W., which is an iron post 3 ins. in diam., 1 ft. above ground, with brass cap, marked and witnessed as described by the Surveyor-General, I set off 10°51' S. on the decl. arc, and 35°46' N. on the lat. arc, and determine a meridian with the solar. Thence I run, as per instructions,

West, on a random line, on N. bdy. of Tp.

At 5 miles, 73.78 chs., I intersect the cor. of Tps. 27 & 28 N., Rs. 17 & 18 W., recently established & by me, whence I run, (described)

East, on a true line, bet. secs. 6 & 31.

On N. bdy. of Tp.,  
Var. 16° E.

Through dense cacti and greasewood, over undulating valley.

36.10 Road, hrs. NE. & SW.

33.78 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 N., and S 6 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.

56.40 Road, hrs. N. & S.

73.78 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 5, 6, 31 & 32, marked on brass cap, T 28 N in N., T 27 N in S., and R 17 W in W. half, S 31 in NW., S 32 in NE., S 5 in SE., and S 6 in SW. quad.;

dig pits 18x18x12 ins. in each sec. 5 1/2 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high N. of cor.

Land, rolling, undulating. Soil, 3rd rate, sandy, gravelly. Cacti, greasewood, sage brush, sparse grass.

At this cor., at noon, I set off 10°48 1/2' S. on the decl. arc, and observe the sun on the meridian. The resulting lat. is 35°46' N.

East, bet. secs. 5 & 32.

Over level valley, coarse sandy loam, dense cacti.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for 1/4 sec. cor., marked on brass cap, 1/4 S 32 in N., and S 5 in S. half;

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

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 4, 5, 32 & 33, marked on brass cap, T 28 N in N., T 27 N in S., and R 17 W in W. half; S 32 in NW., S 33 in NE., S 4 in SE., and S 5 in SW. quad.;

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, undulating, level. Soil, 3rd rate, sandy, gravelly, loose, dry. Cacti, greasewood, sage brush, sparse grass.

Re-survey of North Boundary T. 27 N., R. 17 W. 19

Chains East, bet. secs. 4 & 33.  
 Over undulating valley, through dense cacti.  
 10.50 Centre of drainage, wash, 10 lks. wide, course NNW.  
 19.40 Road, brs. NNW. & SSE.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
 the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  
 $\frac{1}{4}$  S 33 in N., and  
 S 4 in S. half;  
 dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and  
 raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of cor.  
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in  
 the ground for cor. of secs. 3, 4, 33 & 34, marked on  
 brass cap, T 28 N in N.,  
 T 27 N in S., and  
 R 17 W in W. half,  
 S 33 in NW.,  
 S 34 in NE.,  
 S 3 in SE., and  
 S 4 in SW. quad.;  
 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, undulating, rolling. Soil, 3rd rate, sandy, loose.  
 Cacti, greasewood, sparse grass.

East, bet. secs. 3 & 34.  
 Over rolling valley, through dense cacti.  
 0.45 Old dim road, brs. N. & S.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
 the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  
 $\frac{1}{4}$  S 34 in N., and  
 S 3 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.  
 69.00 Pipe line to ranch of Clay Springs Cattle Co.  
 73.80 Road, brs. SW. & NE.  
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in  
 the ground for cor. of secs. 2, 3, 34 & 35, marked on  
 brass cap, T 28 N in N.,  
 T 27 N in S., and  
 R 17 W in W. half,  
 S 34 in NW.,  
 S 35 in NE.,  
 S 2 in SE., and  
 S 3 in SW. quad.;  
 dig pits 18x18x12 ins. in each sec.  $5\frac{1}{2}$  ft. dist., and  
 raise a mound of earth 4 ft. base, 2 ft. high W. of cor.  
 Land, rolling. Soil, 3rd rate, sandy, loose, dry.  
 Cacti, greasewood, sage brush.

East, bet. secs. 2 & 35.  
 Over rolling valley, through dense cacti.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
 the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  
 $\frac{1}{4}$  S 35 in N., and  
 S 2 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.  
 44.00 Wash, 35 lks. wide, course SW.  
 45.25 Wash, 50 lks. wide, course SW.  
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in  
 the ground for cor. of secs. 1, 2, 35 & 36, marked on  
 brass cap, T 28 N in N.,  
 T 27 N in S., and  
 R 17 W in W. half,  
 S 35 in NW.,  
 S 36 in NE.,  
 S 1 in SE., and  
 S 2 in SW. quad.;  
 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.

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Chains.

Land, rolling.  
Soil, 3rd rate, sandy, gravelly, loose, dry.  
Cacti, greasewood, sage brush, good grass.

East, bet. secs. 1 & 36.  
Over rolling land, drains to S.

- 19.60 Road, brs. NW. & SE.
- 30.00 Wash, 25 lks. wide, course SW.
- 38.00 Foot of steep rocky hill, brs. N. & S., asc. W. 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 36 in N., and  $\frac{1}{4}$  S 1 in S. half; raise a mound of stone 2 ft. base, 1  $\frac{1}{2}$  ft. high N. of cor.
- 44.00 Top of rise, apex of hill, brs. S. 4 chs. dist.
- 47.00 Desc.
- 49.00 Foot of hill, brs. N. & S., thence over land covered with large granite boulders.
- 60.00 Asc. SW. slope.
- 64.00 Top of S. end of hill, brs. S. & N., Apex brs. N. 7 chs. dist., desc.
- 66.00 Foot of hill, brs. NNE. & SSW.
- 67.00 Wash, 25 lks. wide, course SW.
- 79.50 Wash, 25 lks. wide, course SW.
- 80.00 To cor. of Tps. 27 & 28 N., Rs. 16 & 17 W., heretofore described. Land, rolling, hilly. Soil, 3rd rate, sandy, gravelly, loose, dry. Greasewood, cacti, sage brush, good grass.

-General Description. -

W. and N. bdrs. T. 27 N., R. 17 W.  
The west bdy. of this Tp. runs over rolling land near the west side of the Hualpai Valley. To the west of the line the land rises gradually for about 5 miles covered with dense cacti and a fine growth of native bunch grass. There is no water on or near this line.  
The north bdy. runs across a smooth undulating valley, near the north end. The land is a sandy loose loam, which would produce well if watered. There is no water on or near the line.  
This line crosses the valley near the change of drainage to the north and south, the north drainage being into the Colorado River down Hualpai Wash, and the south drainage being into the dry lake called Red Lake.

Boundaries of T. 27 N., R. 17 W.  
Latitudes, Departures, and closing errors.

Line designated.	True bearing.	Dist..	Latitudes.		Departures.	
			N.	S.	E.	W.
		Chs.	Chs.	Chs.	Chs.	Chs.
South Boundary,	N.89°59'W.	479.18	-0.14			479.18
West Boundary,	North,	480.00	480.00			
North Boundary,	East,	478.78			478.78	
East Boundary,	South,	480.00		480.00		
Convergency,					-0.51	
		Totals, -	480.14	480.00	479.29	479.18
			480.00		479.18	
			Error in lat. 0.14		Error dep. 0.11	

Feb. 21, 1912.

*Jesse B. Wright*

U. S. Surveyor.

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability,

Jesse B. Wright, U. S. Surveyor, during the periods and in the capacities  
*under Group 14*  
 stated opposite our several signatures, in surveying all those parts or portions of the  
North Boundary of T. 21 N. R. 14 W.,  
South, West and North Boundaries of T. 26 N. R. 17 W.  
and the West and North Boundaries of T. 27 N. R. 17 W.

of the Gila & Salt River Base & Meridian, in the State of Arizona.

which are represented in the foregoing field notes as having been executed 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 executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	
<i>Herbert Worcester</i>	Jan. 23, 1912.	Mch. 3, 1912.	Chainman.
<i>John A. Bates</i>	Jan. 23, 1912.	Feb. 9, 1912.	Chainman.
<i>Elmore Welch</i>	Jan. 23, 1912.	Feb. 9, 1912.	Moundman.
<i>Elmore Welch</i>	Feb. 9, 1912.	Mch. 3, 1912.	Chainman.
<i>Samuel Kennedy</i>	Jan. 23, 1912.	Mch. 3, 1912.	Flagman.
<i>Harmon Meyer</i>	Feb. 1, 1912.	Mch. 3, 1912.	Axeman.
<i>Chas H. Whitfield</i>	Feb. 11, 1912.	Mch. 3, 1912.	Moundman.

Subscribed and certified to before me on the dates of the final service as shown above.

*Jesse B. Wright*  
 U. S. Surveyor.

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BOOK 2417

FINAL OATH OF UNITED STATES SURVEYOR.

I, Jesse B. Wright, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for Arizona, Group 14 bearing date of the 28th day of August, 1911, I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, <sup>re</sup> surveyed all those parts or portions of the  
North Boundary of Tp. 21 N.-R. 14 W.  
South, West & North Bdrs. of Tp. 26 N.-R. 17 W.  
and the West & North Bdrs. of Tp. 27 N.-R. 17 W.

of the Gila and Salt-  
River Base and Meridian, in the State of Arizona, which are represented in the foregoing field notes as having been executed 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 U. S. 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*  
U. S. Surveyor.

Subscribed by said Jesse B. Wright, and sworn to before me }  
this 15th day of October, 1912

*Frank Ingalls*  
SURVEYOR-GENERAL OF ARIZONA



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona, April 21, 1913

The foregoing field notes of the <sup>re</sup> survey of the  
North Boundary of Tp. 21 N.-R. 14 W.  
South, West & North Bdrs. of Tp. 26 N.-R. 17 W.  
and the West & North Bdrs. of Tp. 27 N.-R. 17 W.  
of the Gila and Salt River Base and Meridian, Arizona

executed by Jesse B. Wright, U.S. Surveyor  
for Group 14, dated August 28, 1911, 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*  
U. S. 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.