

2443

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MAY 1 - 1912

75

Book "Y" BOOK 2443

# FIELD NOTES

G.L.O. letter "E" Nov. 10 - 1913  
OF THE SURVEY OF THE

Subdivision of T. 24 N., R. 12 W.

Of the Gila and Salt River Base and Meridian,

Arizona,

In the State of

EXECUTED BY

Jesse B. Wright,

and

William H. Elliott

In the capacity of U. S. Surveyors, under instructions dated August 28, 1911, issued by the United States Surveyor General to govern surveys included in Group No. 113, 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 January 23, 1912

Survey completed January 30, 1912

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1A

BOOK 2448

INDEX DIAGRAM.

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Chains.

The survey of this Tp. was begun Jan. 23, 1912., and executed jointly by Jesse B. Wright, and W.H. Elliott, U. S. Surveyors, Wright, using a Young & Son's light mountain transit, No. 6492, and Elliott using a Young & Son's light mountain transit No. 8480, both instruments furnished with Smith's patent solar attachmen on side, and provided with double verniers reading to 1' of arc. We examine, test and adjust the levels and line of collimations of our instruments, and then in order to test the solars by comparing the results of observations for meridians made during a.m. & p.m. hours, with a true meridian determined by observation of Polaris, we proceed as follows :

At 4h p.m., l.m.t., at our camp, near the NE. cor. of the Tp., lat.  $35^{\circ}29\frac{1}{2}'$  N., long.  $113^{\circ}30'21''$  W., we set off  $35^{\circ}29\frac{1}{2}'$  N. on the latl. arcs, and  $19^{\circ}32'$  S. on the decl. arcs, and determine meridians with the solars, and mark the meridians thus determined by tacks in stakes driven in a fence post 5 chs. N. of our stations.

At 11h 16m p.m., l.m.t., we observe Polaris at W. elong., in accordance with instructions in the Manual, and mark the line thus determined by tacks in stakes driven in the ground 6 chs. N. of our stations. Jan. 23, 1912.  
Jan. 24, 1912.

At 7h 45m a.m., we set off the azimuth of Polaris  $1^{\circ}25\frac{1}{2}'$  to the East, and mark the true meridians thus determined by a tack in the stake driven in the ground 5 chs. N. of our stations. Our instruments being in alinement, we find by comparison that our meridians are identical. The point in the true meridian falls .25 and .20 ins. E. respectively of the meridians as determined by the the solars of Wright's, and Elliott's instruments, on the preceding evening.

At 8h a.m., l.m.t., we set off  $35^{\circ}29\frac{1}{2}'$  N. on the lat. arcs, and  $19^{\circ}22\frac{1}{2}'$  S. on the decl. arcs, and determine meridians with our solars, and mark points in the meridians thus determined by tacks driven in the stake 5 chs. N. of our station, which points as determined by Wright and Elliott fall respectively .25 and .30 ins. E. of the point in the true meridian as determined by Polaris.

Therefore; transit No. 6492 defines positions for meridians about  $13''$  W., and E. respectively, by p.m. & a.m. observations, of the true meridian as determined by observation of Polaris.

Transit No. 8480 defines positions for meridians, about  $10''$  W., and  $15''$  E., respectively, by p.m. & a.m. observations, of the true meridian as determined by Polaris observation. These small errors being no greater than the usual errors of observation, we conclude that the instruments are in satisfactory adjustment.

The true meridian, at 8h a.m., brs. N.  $15^{\circ}40'$  W.; the angle thus determined gives the magnetic declination as  $15^{\circ}40'$  E.

~~We set off the lat.  $35^{\circ}29\frac{1}{2}'$  N. on the lat. arcs, and  $19^{\circ}32'$  S. on the decl. arcs, and determine meridians with the solars, and mark the meridians thus determined by tacks in stakes driven in the ground 5 chs. N. of our stations.~~  
marked and witnessed as described by the Surveyor-General.

At this cor., at 8h 15m a.m., l.m.t., we set off  $35^{\circ}29\frac{1}{2}'$  N. on the decl. arc, and  $19^{\circ}32'$  S. on the lat. arc, and determine a meridian with the solar.  
Thence we run East, surveying the boundary of the Tp. Jan. 24, 1912.

Jan. 25, 1912. Jesse B. Wright, U.S. Surveyor  
At 8h a.m., l.m.t., at the cor. of secs. 1, 2, 35 & 36, on S. bdy. of Twp. yesterday by William H. Elliott & myself and described by us in Book 18, I set off  $19^{\circ}32'$  S. on the decl. arc &  $35^{\circ}25'$  N. on the lat. arc, and determine a meridian with the solar, thence I run,

Chains.	
	N. 0° 1' W., bet. secs. 35 & 36. Var. 15° 40' E. Over rolling, broken land. Var. 16° E.
11.00	Wash, 50 lks. wide, course NNW.
16.00	Well, 50 ft. deep, brs. East, 50 lks. with water.
17.00	Wash, 50 lks. wide, course NW.
20.50	Wash, 10 lks. wide, course NW.
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 W., and S 36 in E. half; from which, A cedar tree 18 ins. diam. brs. N. 78 1/2° W. 87 lks. dist., marked 1/4 S 35 B T. A cedar tree 18 ins. diam. brs. N. 35° E. 122 lks. dist., marked 1/4 S 36 B T.
75.00	Ridge, brs. NW. & SE.
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 24 N R 12 W, in N. half, S 26 in NW., S 25 in NE., S 36 in SE., and S 35 in SW. quadrants; raise a mound of stone 2 ft. base, 1 1/2 ft. high W. of cor. Land, rolling, broken. Soil, 3rd rate, gravelly. Cedar, oak brush, cacti, sparse grass.
<hr/>	
	East, on a random line, bet. secs. 25 & 36.
40.00	Set temp. 1/4 sec. cor.
80.08	Intersect E. Bdy. of Tp. 5 lks. N. of cor. of secs. 25, 30, 31 & 36 just estab. by William H. Elliott & described in Book 8, whence I run N. 89° 58' W., on a true line, bet. secs. 25 & 36. Over mts. land, asc. NE. slope, very stony.
10.00	Top of north end of volcanic mountain, brs. N. & S., desc.
36.00	Gulch, 30 lks. wide, course NW., asc.
40.04	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 N., and S 36 in S. half; raise a mound of stone 2 ft. base, 1 1/2 ft. high N. of cor.
55.40	Ridge, brs. N. & S., desc.
70.00	Wash, 30 lks. wide, course NW., canyon 8 chs. NW. Asc.
80.08	To cor. of secs. 25, 26, 35 & 36 hereinafore described Land, mts. Soil, 3rd rate, stony. Cedar, palonegro, scrub oak, cacti. Fair grass.
<hr/>	
	N. 0° 1' W., bet. secs. 25 & 26. Over mts. broken land.
8.00	Desc. prec. N. slope.
10.00	Canyon 4 chs. wide, 200 ft. deep, course NW., asc. steep.
14.00	Asc. prec.
18.00	Top of N. rim, brs. NW. & SE.
24.00	Desc. grad.
38.00	Desc. prec.
40.00	Foot of bluff, brs. NW. & SE. 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 26 in W., and S 25 in E. half; raise a mound of stone 2 ft. base, 1 1/2 ft. high W. of cor. No bearings available. Pits impracticable.

Chains.

45.00 Wash, 50 lks. wide, in canyon 8 chs. wide, course NW. asc.  
 48.00 Asc. prec.  
 50.00 Top of mesa, brs. NW & SE.  
 60.00 Desc.  
 65.00 Canyon, 2 chs. wide, course NW. asc.  
 77.00 Asc. prec.  
 79.00 Top of N. rim, brs. NW. & SE.  
 80.00 Set an iron post 3 ft. long, 2 ins. in diam., on bed-rock, in mound of stone for cor. of secs. 23, 24, 25 & 26, marked on brass cap,  
     T 24 N R 12 W, in N. half,  
     S 23 in NW.,  
     S 24 in NE.,  
     S 25 in SE., and  
     S 26 in SW. quadrants;  
 raise a mound of stone 4 ft. base, 2 ft. high W. of cor.  
 Land, rough, broken.  
 Soil, 3rd rate, stony.  
 Cedar, cacti, fair grass.  
 At this cor., at noon, I set off 19° 7½' S. on the decl. arc, and observe the sun on the meridian.  
 The resulting azim. is 35° 27' N.

S. 39° 53' E., on a random line, bet. secs. 24 & 25.  
 40.00 Set temp. ¼ sec. cor.  
 30.06 Intersect E. bdy. of Tp. 5 lks. S. of cor. of secs. 19, 24, 25 & 30, just estab. by William H. Elliott & described in Book 8, West, bet. secs. 24 & 25. whence I run  
 Over heavily rolling, or mts. land, desc. grad.  
 26.00 Wash, 150 lks. wide, course NW., asc.  
 30.06 Top of rise, NE. point.  
 40.03 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for ¼ sec. cor., marked on brass cap,  
     ¼ S 24 in N., and  
     S 25 in S. half;  
 raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.  
 30.06 To cor. of secs. 23, 24, 25 & 26 ~~hereinbefore~~ described  
 Land, rolling.  
 Soil, 3rd rate, gravelly, stony.  
 Scattering cedar, oak brush, cacti. Fair grass.

N. 0° 1' W., bet. secs. 23 & 24.  
 Over mts. land, asc. grad.  
 4.00 Top of rise, brs. E. & W., desc.  
 3.00 Desc. prec.  
 10.00 Foot, brs. NW. & SE. desc. grad.  
 14.00 Wash, 130 lks. wide, course NW., asc.  
 23.00 Asc. prec.  
 25.00 Top of West point of mesa, brs. NE. & SE., desc. grad.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for ¼ sec. cor., marked on brass cap,  
     ¼ S 23 in W., and  
     S 24 in E. half;  
 raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.  
 50.00 Gulch, 50 lks. wide, course WNW., asc. grad.  
 60.00 Flat ridge, brs. brs. WNW. & ESE.  
 30.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for cor. of secs. 13, 14, 23 & 24, marked on brass cap, T 24 N R 12 W, in N. half,  
     S 14 in NW., S. 13 in NE., S 24 in SE., and S 23 in SW. quadrants; from which,  
 A cedar tree 8 ins. diam. brs. N. 20½° E. 149 lks. dist., marked T 24 N R 12 W S 13 B T.  
 A cedar tree 8 ins. diam. brs. S. 42½° E. 62 lks. dist., marked T 24 N R 12 W S 24 B T.

Chains.

A cedar tree 6 ins. diam. brs. S. 36° W. 197 lks. dist., marked T 24 N R 12 W S 23 B T.

A cedar tree 10 ins. diam. brs. N. 41° W. 90 lks. dist., marked T 24 N R 12 W S 14 B T.

Land, rolling, broken, mts.

Soil, 3rd rate, gravelly, stony.

Few cedar trees, scrub oak, cacti. Sparse grass.

East, on a random line, bet. secs. 13 & 24.

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

30.04 Intersect E. bdy. of Tp. 5 lks. N. of cor. of <sup>whence I run</sup> secs. 13, 18, 19 & 24, just estab. by William H. Elliott & described in Book 8 N. 89° 53' W., on a true line, bet. secs. 13 & 24. over rolling land.

40.02 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 13 in N., and  $\frac{1}{4}$  S 24 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.

80.04 To cor. of secs. 13, 14, 23 & 24. ~~hereinbefore~~ described

Land, rolling.

Soil, 3rd rate, gravelly.

Few cedar trees, sage brush. Good native grass.

Jan. 25, 1912.

Jesse B. Wright,

U.S. Surveyor.

not to be published.

Chains.

William H. Elliott,  
U.S. Surveyor.

Jan. 26, 1912.

At 8h a.m., l.m.t., at the cor. of secs. 13, 14, 23 & 24 <sup>hereinbefore</sup> described.  
I set off  $35^{\circ}28'$  N. on the lat. arc, and  $18^{\circ}54\frac{1}{2}'$  S. on the decl. arc, and determine a meridian with the solar. Thence I run,

N.  $0^{\circ}1'$  W., bet. secs. 13 & 14.

Over rolling land. Desc. grad.

- 2.50 Road, brs. NE. & SW.  
4.67 Wire fence, brs. NE. & SW.  
5.62 Telegraph line, brs. NE. & SW.  
6.29 Centre of main single track of Atchison, Topeka & Santa Fe Railroad, brs. N.  $47^{\circ}E.$  & S.  $47^{\circ}W.$ , on about  $5^{\circ}$  curve.  
7.36 Wash, 4 lks. wide, course SW., middle of drainage.  
7.89 Wire fence, brs. NE. & SW., parallel to R.R.  
8.17 Telegraph line, brs. NE. & SW., parallel to R.R. asc. grad.  
26.00 Knoll, 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 14 in W., and  
S 13 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.  
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 12 W, in N. half,  
S 11 in NW.,  
S 12 in NE.,  
S 13 in SE., and  
S 14 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, 3rd rate, gravelly.  
Sparse sage brush, cacti, oak brush. Fair grass.

S.  $89^{\circ}58'$  E., on a random line, bet. secs. 12 & 13.

- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
80.08 Intersect E. bdy. of Tp. 7 lks. S. of cor. of secs. 7, 12, 13 & 18, just estab. by me & described in Book 8, whence I run S.  $89^{\circ}59'$  W., on a true line, bet. secs. 12 & 13.  
Over heavily rolling land. 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,  
 $\frac{1}{4}$  S 12 in N., and  
S 13 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.  
57.00 Telegraph line, brs. NE. & SW.  
57.55 Wire fence, brs. NE. & SW.  
59.10 Wash, 5 lks. wide, course SW.  
63.55 A. T. & S.F.R.R., brs. N.  $72^{\circ}20'E.$  & S.  $72^{\circ}20'W.$   
64.70 Wire fence, at right angles to R.R., at stock crossing.  
65.10 Telegraph line, brs. NE. & SW. parallel to R.R.  
66.40 Wire fence, brs. NE. & SW., parallel to R.R.  
80.08 To cor. of secs. 11, 12, 13 & 14. **hereinbefore described**  
Land, rolling.  
Soil, 3rd rate, sandy, gravelly.  
Sage brush, cacti, Good native grass.  
At this cor. at noon, . . . , I set off  $18^{\circ}52\frac{1}{2}'$  S. on the decl. arc, and observe the sun on the meridian.  
The resulting lat. is  $35^{\circ}28\frac{1}{2}'$  N.

Chains. N. 0° 1' W., bet. secs. 11 & 12.  
 Over rolling land. asc. grad.  
 3.00 Top of small Malapais knoll, brs. NE. & SW.  
 30.10 Road, Hackberry to Seligman, brs. SW. & 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 11 in W., and  
 S 12 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, 2 ins. in diam. 24 ins. in  
 the ground for cor. of secs. 1, 2, 11 & 12, marked on  
 brass cap,  
 T 24 N R 12 W, in N. half,  
 S 2 in NW.,  
 S 1 in NE.,  
 S 12 in SE., and  
 S 11 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.  
 Soil, 3rd rate, sandy, gravelly.  
 Sparse sage brush, cacti. Good native grass.

N. 89° 59' E., on a random line, bet. secs. 1 & 12.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 80.10 Intersect E. bdy. of Tp. 5 lks. N. of cor. of  
 secs. 1, 6, 7 & 12, just estab. by me & described in Book 8, whence I run  
 N. 89° 59' W., on a true line, bet. secs. 1 & 12.  
 Over heavily rolling land.  
 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 1 in N., and  
 S 12 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, 10 lks. wide, course SW., asc.  
 55.00 Top of broken mesa, brs. NNE. & SSW.  
 70.00 Desc. grad.  
 77.30 Road, brs. NE. & SW. Hackberry to Seligman.  
 80.10 To cor. of secs. 1, 2, 11 & 12. ~~hereinbefore~~ described  
 Land, rolling.  
 Soil, 3rd rate, gravelly.  
 Sparse low brush. Fair grass.

N. 0° 1' W., bet. secs. 1 & 2.  
 Over rolling land. asc. grad.  
 36.78 Intersect South Boundary of Hualapai Indian Reservation  
 at a point whence the 50 $\frac{1}{2}$  mile cor. on said line  
 brs. East, 5.14 chs., which is a limestone 16x5x6 ins.  
 above ground, marked and witnessed as described by  
 the Surveyor-General.  
 At the 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. 1 & 2, marked on  
 brass cap,  $\frac{1}{4}$  S 12 in E. half,  
 H. I. R. in N. half,  
 T. 24 N R 12 W, in S. half,  
 S 1 in SE., and  
 S 2 in SW. quadrants, or sectors;  
 dig pits 24x18x12 ins. crosswise on each line, E & W.  
 3 ft. and S. of cor. 7 ft. dist., and  
 raise a mound of earth 4 ft. base, 2 ft. high S. of cor.  
 Land, rolling. Soil, 3rd rate, gravelly.  
 Sparse sage brush, few cedar trees. Good native grass.

Jan. 26, 1912.

William H. Elliott

U.S. Surveyor



Subdivision of T. 24 N., R. 12 W.

Chains. Jesse B. Wright  
U.S. Surveyor.

Jan. 26, 1912.  
At 8h a.m., l.m.t., at the cor. of secs. 2, 3, 34 & 35, on S. bdy. of the Tp, recently estab. by William H. Elliott & myself & described in Book 8  
I set off 35° 25' N. on the lat. arc, and 18° 53½' N. on the decl. arc, and determine a meridian with the solar. Thence I run,  
N. 0° 1' W., bet. secs. 34 & 35.  
Over mts. land, desc. NE. slope, through scattering cedar.

31.50 Wash, 20 lks. wide, course NW. asc.  
39.00 Top of ridge, in saddle, brs. NW. & SE.  
40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for ¼ sec. cor., marked on brass cap,  
¼ S 34 in W., and  
S 35 in E. half; from which,  
A cedar tree 9 ins. diam. brs. S. 49½° W. 103 lks. dist., marked ¼ S 34 B T.  
A cedar tree 7 ins. diam. brs. S. 5° E. 108 lks. dist., marked ¼ S 35 B T.

80.00 Desc. grad. from cor.  
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 12 W, in N. half,  
S 27 in NW.,  
S 25 in NE.,  
S 35 in SE., and  
S 34 in SW. quadrants; from which,  
A pinon tree 10 ins. diam. brs. N. 54½° E. 211 lks. dist., marked T 24 N R 12 W S 26 B T.  
A cedar tree 6 ins. diam. brs. N. 28½° W. 216 lks. dist., marked T 24 N R 12 W S 27 B T.  
A cedar tree 6 ins. diam. brs. S. 68° W. 208 lks. dist., marked T 24 N R 12 W S 34 B T.  
A pinon tree 7 ins. diam. brs. S. 31½° E. 220 lks. dist., marked T 24 N R 12 W S 35 B T.

Land, rolling, broken, mts.  
Soil, 3rd rate, gravelly, stony.  
Cedar, palonegro, scrub oak, cacti. Sparse grass.

East, on a random line, bet. secs. 26 & 35.  
40.00 Set temp. ¼ sec. cor.  
80.06 Intersect N. & S. line at cor. of secs. 25, 26, 35 & 36, ~~hereinbefore described~~, whence I run  
West, on a true line, bet. secs. 26 & 35.  
Over mts., broken land, asc. grad.

5.00 Ridge, brs. NW. & SE., desc.  
20.00 Canyon, 3 chs. wide, course NNW., asc.  
26.00 Spur, brs. N & S., desc.  
32.00 Canyon, 4 chs. wide, course NNW., asc. prec.  
38.00 Top of rim, brs. N. & S. asc.  
40.03 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for ¼ sec. cor., marked on brass cap,  
¼ S 26 in N., and  
S 35 in S. half;  
raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.

47.00 Ridge, brs. N. & S., desc.  
68.00 Wash, 30 lks. wide, course NNW., asc.  
80.06 To cor. of secs. 26, 27, 34 & 35. ~~hereinbefore described~~  
Land, rolling, mts., broken.  
Soil, 3rd rate, stony, gravelly.  
Sparse cedar, scrub oak, cacti.

At this cor., at noon, . . . , I set off 18° 52½' S. on the decl. arc, and observe the sun on the meridian.  
• The resulting lat. is 35° 26' N.

## Chains.

- N.  $0^{\circ} 1'$  W., bet. secs. 26 & 27.  
 Over rolling, broken land, desc. through scattering cedar.
- 14.30 Wash, 10 lks. wide, course NNW., thence along in meanders of same.
- 38.00 Leave wash, runs NW., 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 27 in W., and  
 S 26 in E. half; from which,  
 A cedar tree 8 ins. diam. brs. N.  $14\frac{1}{2}^{\circ}$  E. 110 lks. dist.,  
 marked T 24 N R 12 W S 26 B T.  
 A cedar tree 6 ins. diam. brs. S.  $50^{\circ}$  W. 113 lks. dist.,  
 marked T 24 N R 12 W S 27 B T.
- 65.00 Wash, 15 lks. wide, course NW.
- 80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for cor. of secs. 22, 23, 26 & 27, marked on brass cap,  
 T 24 N R 12 W, in N. half,  
 S 22 in NW.,  
 S 23 in NE.,  
 S 26 in SE., and  
 S 27 in SW. quadrants; from which,  
 A cedar tree 6 ins. diam. brs. N.  $56\frac{1}{2}^{\circ}$  E. 135 lks. dist.,  
 marked T 24 N R 12 W S 25 B T.  
 A cedar tree 6 ins. diam. brs. S.  $68\frac{1}{2}^{\circ}$  E. 118 lks. dist.,  
 marked T 24 N R 12 W S 26 B T.  
 A cedar tree 6 ins. diam. brs. S.  $46\frac{3}{4}^{\circ}$  W. 175 lks. dist.,  
 marked T 24 N R 12 W S 27 B T.  
 A cedar tree 6 ins. diam. brs. N.  $27\frac{1}{4}^{\circ}$  W. 11 lks. dist.,  
 marked T 24 N R 12 W S 22 B T.
- Land, rolling, broken.  
 Soil, 3rd rate, gravelly.  
 Sparse cedar, scrub oak, cacti, palonegro. Fair grass.

- East, on a random line, bet. secs. 23 & 26.
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 80.04 Intersect N. & S. line 5 lks. N. of cor. of secs. 23, 24, 25 & 26, ~~hereinbefore described~~, whence I run N.  $89^{\circ} 58'$  W., on a true line, bet. secs 23 & 26.  
 Over mts. land, desc.
- 2.00 Desc. prec. 60 ft., thence desc.
- 18.00 Wash, 80 lks. wide, course NW., asc. steep.
- 30.00 Top of rim, brs. NW. & SE., asc. ~~grad. as indicated~~
- 40.00 Top of ridge, brs. NW. & SE. Desc.
- 40.02 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  
 $\frac{1}{4}$  S 23 in N., and  
 S 26 in S. half;  
 raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high N. of cor.
- 64.00 Wash, 50 lks. wide, course NW.
- 80.04 To cor. of secs. 22, 23, 26 & 27. ~~hereinbefore described~~  
 Land, mts., broken.  
 Soil, 3rd rate, stony, gravelly.  
 Few cedars, scrub oak, cacti. Sparse grass.

~~hereinbefore described~~

Chains

N. 0° 1' W., bet. secs. 22 & 23.  
 Over heavily rolling land.  
 16.00 Wash, 50 lks. wide, course NW. asc.  
 17.45 Spire, brs. NW. & SE., desc.  
 35.30 Road, top of ridge, brs. E. & W., desc. grad.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
 the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  
 $\frac{1}{4}$  S 22 in W., and  
 S 23 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.  
 53.50 Wash, 25 lks. wide, course SW. asc. grad.  
 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. 12 W, in N. half,  
 S 15 in NW.,  
 S 14 in NE.,  
 S 23 in SE., and  
 S 22 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, 3rd rate, gravelly, dry.  
 Sparse cacti, scrub oak, few cedars, fair grass.

S. 39° 58' E., on a random line, bet. secs. 14 & 23.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 80.08 Intersect N. & S. line 2 lks. S. of cor. of  
 secs. 13, 14, 23 & 24, ~~hereinbefore~~ described, whence I run  
 N. 39° 59' W., on a true line, bet. secs. 14 & 23.  
 Over rolling land.  
 24.70 Wash, 50 lks. wide, course NW.  
 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 14 in N., and  
 S 23 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.  
 80.08 To cor. of secs. 14, 15, 22 & 23. ~~hereinbefore~~ described  
 Land, rolling,  
 Soil, 3rd rate, gravelly.  
 No timber.  
 Sparse scrub oak, cacti, few cedars. Fair grazing.  
 Jan. 26, 1912.

Jesse B. Wright,  
 U.S. Surveyor.

Chains	William H. Elliott 14, 15, 22, 23 U.S. Surveyor.
	<p>Jan. 27, 1912. At 8h a.m., l.m.t., at the cor. of secs. 13, 14, 23 &amp; 24 <small>herein before described.</small> I set off 35° 28' N. on the lat. arc, and 18° 38' S. on the decl. arc, and determine a meridian with the solar. Thence I run, N. 0° 1' W., bet. secs. 14 &amp; 15. Over rolling land.</p>
40.00	<p>Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for <math>\frac{1}{4}</math> sec. cor., marked on brass cap, <math>\frac{1}{4}</math> S 16 in W., and S 14 in E. half; dig pits 18x10x12 ins. N. &amp; S. of cor. 3 ft. dist., and raise a mound of earth 3<math>\frac{1}{2}</math> ft. base, 1<math>\frac{1}{2}</math> ft. high W. of cor.</p>
47.65	Telegraph line, brs. WNW. & ESE.
47.70	Wire fence, brs. WNW. & ESE.
48.15	Wash, 5 lks. wide, course WNW., centre of drainage, Asc. grad.
49.35	Centre of single track of A. T. & S. F. R.R., brs. WNW. & ESE.
49.85	Telegraph line, brs. WNW. & ESE.
50.92	Wire fence, parallel to R.R.
55.44	Road, brs. WNW. & ESE.
56.00	Asc. gravel ridge.
75.00	Top, brs. WNW. & ESE.
80.00	<p>Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for cor. of secs. 10, 11, 14 &amp; 15, marked on brass cap, T 24 N R 12 W, in N. half, S 10 in NW., S 11 in NE., S 14 in SE., and S 15 in SW. quadrants; dig pits 18x18x12 ins. in each sec. 5<math>\frac{1}{2}</math> ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high W. of cor. Land, rolling. Soil, 3rd rate, sandy, gravelly. Sparse brush, fair grass.</p>
	S. 39° 59' E., on a random line, bet. secs. 11 & 14.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
30.10	Intersect N. & S. line 2 $\frac{1}{2}$ lks. S. of cor. of secs. 11, 12, 13 & 14, <del>hereinbefore described</del> , whence I run West, on a true line, bet. secs. 11 & 14. over rolling land.
22.05	Road, brs. NE. & SW.
40.05	<p>Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for <math>\frac{1}{4}</math> sec. cor., marked on brass cap, <math>\frac{1}{4}</math> S 11 in N., and S 14 in S. half; dig pits 18x10x12 ins. E. &amp; W. of cor. 3 ft. dist., and raise a mound of earth 3<math>\frac{1}{2}</math> ft. base, 1<math>\frac{1}{2}</math> ft. high N. of cor.</p>
62.10	Flat spur, brs. NE. & SW., desc. grad.
30.10	To cor. of secs. 10, 11, 14 & 15, <del>hereinbefore described</del> . Land, rolling, open. Soil, 3rd rate, sandy, gravelly, dry. Fair grass.
	N. 0° 1' W., bet. secs. 10 & 11. Over rolling land, asc.
16.00	Ridge, brs. E. & W., desc. grad.
34.00	Wash, 5 lks. wide, course SW., asc. grad.
40.00	<p>Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for <math>\frac{1}{4}</math> sec. cor., marked on brass cap, <math>\frac{1}{4}</math> S 10 in W., and S 11 in E. half; dig pits 18x18x12 ins. N. &amp; S. of cor. 3 ft. dist., and raise a mound of earth 3<math>\frac{1}{2}</math> ft. base, 1<math>\frac{1}{2}</math> ft. high W. of cor.</p>

Chains.

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 12 W, in N. half,  
 S 3 in NW.,  
 S 2 in NE.,  
 S 11 in SE., and  
 S 10 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, rolling.  
 Soil, 3rd rate, gravelly.  
 Sparse brush, Good native grass.  
 At this cor., at noon, I set off 18° 38' S. on the decl. arc, and observe the sun on the meridian.  
 The resulting lat. is 35° 29 1/2' N.

East, on a random line, bet. secs. 2 & 11.  
 40.00 Set temp. 1/4 sec. cor.  
 80.18 Intersect N. & S. line 2 lks. S. of cor. of secs. 1, 2, 11 & 12, ~~hereinbefore~~ described, whence I run S. 89° 59' W., on a true line, bet. secs. 2 & 11.  
 Over rolling land.  
 40.09 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 2 in N., and  
 S 11 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.  
 80.18 To cor. of secs. 2, 3, 10 & 11, ~~hereinbefore~~ described.  
 Land, rolling.  
 Soil, 3rd rate, sandy, gravelly.  
 Sparse sage brush, cacti. Good native grass.

N. 0° 1' W., bet. secs. 2 & 3.  
 Over rolling land .  
 36.35 Intersect South Boundary of Hualpai Indian Reservation at a point whence the 49 1/2 mile cor. on said line hrs. East, 5.42 chs. dist., which is a limestone 15x4x6 ins. above ground, marked and witnessed as described by the Surveyor-General.  
 At the 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, E I. R., in N. half,  
 C C , S. of centre,  
 T 24 N R 12 W, in S. half,  
 S 2 in SE., and  
 S 3 in SW. quadrants ;  
 dig pits 24x18x12 ins. crosswise on each line, E & W, 5 ft., and S. of cor. 7 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high S. of cor.  
 Land, rolling.  
 Soil, 3rd rate, sandy, gravelly, loose, dry.  
 Sparse sage brush, cacti. Good native grass.  
 Jan. 27, 1912.

William H. Elliott  
 U.S. Surveyor.

Chains.

Jesse B. Wright  
U.S. Surveyor

Jan. 27, 1912.  
At 8h a.m., l.m.t., at the cor. of secs. 3, 4, 33 & 34, on S. bdy. of T<sub>p</sub>, recently estab. by William H. Elliott & myself & described in Book 8.

I set off 35°25' N. on the lat. arc, and 18°38' S. on the decl. arc, and determine a meridian with the solar. Thence I run,

N. 0° 2' W., bet. secs. 33 & 34.  
Over heavily rolling, hilly land.  
Asc. along W. slope of ridge.

38.00 Top of ridge, hrs. NNW. & SSE., desc. along E. side.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for ¼ sec. cor., marked on brass cap, ¼ S 33 in W., and ¼ S 34 in E. half;

raise a mound of stone 2 ft. base, 1½ ft. high W. of cor. No bearings available; pits impracticable.

51.00 Wash, 8 lks. wide, course SW., asc. along E. side of draw.

77.00 Wash, 20 lks. wide, course SW., asc.

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 24 N R 12 W, in N. half;

S 28 in NW.,

S 27 in NE.,

S 34 in SE., and

S 33 in SW. quadrants, from which

A cedar tree 14 ins. diam. hrs. N. 78° E. 866 lks. dist., marked T 24 N R 12 W S 27 B T.

A cedar tree 9 ins. diam. hrs. N. 75° W. 219 lks. dist., marked T 24 N R 12 W S 28 B T.

A cedar tree 7 ins. diam. hrs. S. 59° W. 185 lks. dist., marked T 24 N R 12 W S 33 B T.

A cedar tree 8 ins. diam. hrs. S. 41½° E. 293 lks. dist., marked T 24 N R 12 W S 34 B T.

Land, rolling, broken.  
Soil, 3rd rate, gravelly, stony.  
Sparse cedar, scrub oak, cacti. Fair grass.

East, on a random line, bet. secs. 27 & 34.

40.00 Set temp. ¼ sec. cor.

79.98 Intersect N. & S. line 5 lks. N. of cor. of secs. 26, 27, 34 & 35, ~~hereinbefore described~~, whence I run N. 89° 53' W., on a true line, bet. secs. 27 & 34. Over heavily rolling land, desc.

14.70 Wash, 20 lks. wide, course NW., asc.

26.00 Ridge, hrs. N. & S.,

34.00 Wash, 10 lks. wide, course NW. asc.

39.99 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for ¼ sec. cor., marked on brass cap, ¼ S 27 in N., and ¼ S 34 in S. half;

raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.

46.50 Ridge, hrs. N. & S., desc.

57.30 Wash, 10 lks. wide, course NW., asc.

64.00 Ridge, hrs. NW. & SE. desc.

79.98 To cor. of secs. 27, 28, 33 & 34. ~~hereinbefore described~~.

Land, broken, mts.  
Soil, 3rd rate, gravelly, stony.  
Sparse cedar, cacti, scrub oak. Good grass in places.

Chains.

N. 0° 2' W., bet. secs. 27 & 28.  
 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 28 in W., and  $\frac{1}{4}$  S 27 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.  
 46.50 Wash, 10 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. 21, 22, 27 & 28, marked on brass cap  
 T 24 N R 12 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.  
 Soil, 3rd rate, gravelly, dry.  
 Sparse cedar in gulches, cacti, scrub oak. Fair grass.  
 At this cor., at noon, I set off 18° 38' S. on the decl. arc, and observe the sun on the meridian.  
 The resulting lat. is 35° 27' N.

S. 89° 58' E., on a random line, bet. secs. 22 & 27.  
 40.00 set temp.  $\frac{1}{4}$  sec. cor.  
 79.96 Intersect N. & S. line 7 lks. S. of cor. of secs. 22, 23, 26 & 27, ~~herebefore described~~, whence I run S. 89° 59' W. on a ~~line~~, bet. secs. 22 & 27. Over rolling, broken land.  
 17.30 Wash, 50 lks. wide, course NW. asc.  
 24.00 Ridge, brs. N. & S., desc.  
 36.85 Wash, 75 lks. wide, course NNW., asc.  
 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 22 in N., and  $\frac{1}{4}$  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.  
 50.00 Ridge, brs. N. & S., desc.  
 79.96 To cor. of secs. 21, 22, 27 & 28, ~~herebefore described~~.  
 Land, rolling, broken.  
 Soil, 3rd rate, gravelly.  
 Few cedars, cacti. Good grass in places.

Chains.

N. 0° 2' W., bet. secs. 21 & 22.  
 Over rolling land, desc.  
 25.70 Wash, 40 lks. wide, course NW.  
 34.00 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 21 in W., and S 22 in E. half;  
 dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high W. of cor.  
 48.00 Ridge, brs. E. & W., desc.  
 48.50 Old road, brs. E. & W.  
 76.00 Foot of ridge.  
 80.00 Set an iron p st 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 24 N R 12, 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, broken.  
 Soil, 3rd rate, sandy, gravelly.  
 Sparse cedar cacti, scrub oak. Fair grazing.

N. 39° 59' E., on a random line, bet. secs. 15 & 22.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 30.00 Intersect N. ~~39° 59' E.~~ ~~30.00~~ lks. N. of cor. of secs. 14, 15, 22 & 23, ~~hereinbefore described~~, whence I run West, on a true line, bet. secs. 15 & 22.  
 Over rolling land.  
 14.00 Wash, 20 lks. wide, course NNW.  
 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 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.  
 30.00 To cor. of secs. 15, 16, 21 & 22, ~~hereinbefore described~~.  
 Land, rolling.  
 Soil, 3rd rate, gravelly.  
 No timber, ~~only~~ scattering cedars; fair grass.  
 Jan. 27, 1912.

Jesse B. Wright  
 U.S. Surveyor



Chains.

William H. Elliott  
U.S. Surveyor.

Jan. 28, 1912.  
 At 8h a.m., l.m.t., at the cor. of secs. 15, 16, 21 & 22 <sup>hereinbefore</sup> described.  
 I set off 35° 28' N. on the flat arc, and 18° 23' S. on the decl. arc, and determine a meridian with the solar.  
 Thence I run,  
 N. 0° 2' W., bet. secs. 15 & 16.  
 Over rolling land.  
 23.75 Wash, 5 lks. wide, course SW., centre of drainage.  
 29.90 Telegraph line, brs. NE. & SW.  
 30.07 Wire fence, brs. NE. & SW.  
 31.65 Centre of single track of A. T. & S.F.R.R., brs. NE. & SW.  
 32.27 Telegraph line, brs. NE. & SW.  
 32.28 Wire fence, brs. NE. & 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 16 in W., and  
 S 15 in E. half;  
 dig pits 10x18x12 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.  
 41.40 Road, brs. NE. & SW. <sup>asc.</sup>  
 49.50 Top of broken mesa, brs. NE. & SW.  
 79.00 N. Rim, brs. NE. & SW., desc. prec.  
 80.00 Set an iron post 3 ft. long, 24 ins. in diam. 24 ins. in the ground for cor. of secs. 9, 10, 15 & 16, marked on brass cap,  
 T 24 N R 12 W, in N. half,  
 S 9 in NW.,  
 S 10 in NE.,  
 S 15 in SE., and  
 S 16 in SW. quadrants;  
 raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high W. of cor.  
 Land, rolling.  
 Soil, 3rd rate, gravelly, stony, loose, dry.  
 Sparse undergrowth, good native grass.

East, on a random line, bet. secs. 10 & 15.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 80.04 Intersect N. & S. line  $2\frac{1}{2}$  lks. N. of cor. of secs. 10, 11, 14 & 15, ~~hereinbefore~~ described, whence I run N. 39° 59' W., on a true line, bet. secs. 10 & 15.  
 Over gently rolling mesa.  
 40.02 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  
 $\frac{1}{4}$  S 10 in N., and  
 S 15 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.  
 76.00 Rim, brs. NE. & SW., desc.  
 80.04 To cor. of secs. 9, 10, 15 & 16, ~~hereinbefore~~ described.  
 Land, gently rolling.  
 Soil, 3rd rate, gravelly, loose, dry.  
 Sparse undergrowth. Good grass.

N. 0° 2' W., bet. secs. 9 & 10.  
 Over rolling land, desc.  
 11.00 Foot of slope, brs. NE. & SW., enter smooth open land.  
 25.65 Wash, 10 lks. wide, course WSW., asc. very gradually.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  
 $\frac{1}{4}$  S 9 in W., and  
 S 10 in E. half;  
 raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high W. of cor.  
 52.00 Enter smooth flat. draining to SW., cut by many small drains.

Chains.

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 12 W, in N. half,  
 S 4 in NW.,  
 S 3 in NE.,  
 S 10 in SE., and  
 S 9 in SW. quadrants;  
 dig pits 18x18x12 ins. in each sec. 5½ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.  
 Land, rolling,  
 Soil, 3rd & 2nd rate, gravelly, sandy, loose.  
 Sparse undergrowth of cacti, sage brush. Good grass.  
 At this cor., at noon, . . . , I set off 18° 22' S. on the decl. arc, and observe the sun in the meridian. The resulting lat. is 35° 29½' N.

S. 89° 59' E., on a random line, bet. secs. 3 & 10.  
 40.00 Set temp. ¼ sec. cor.  
 79.96 Intersect N. & S. line 7 lks. S. of cor. of secs. 2, 3, 10 & 11, ~~hereinbefore~~ described, whence I run S. 89° 58' W., on a true line, bet. secs. 3 & 10.  
 Over rolling land.  
 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,  
 ¼ S 3 in N., and  
 S 10 in S. half;  
 dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor.  
 58.85 Wash, 10 lks. wide, course SW.  
 Enter flat, brs. NE. & SW.  
 79.96 To cor. of secs. 3, 4, 9 & 10, ~~hereinbefore~~ described.  
 Land, rolling.  
 Soil, 3rd rate, gravelly, sandy, loose.  
 Sparse sage brush, cacti. Good native grass.

N. 0° 2' W., bet. secs. 3 & 4.  
 Over open flat.  
 20.00 Leave flat, enter gently rolling land, asc. slightly.  
 37.06 Intersect South Boundary of Hualpai Indian Reservation at a point whence  
 48½ mile cor. on said line, brs. East, 5.39 chs. dist., which is a limestone 25x15x4 ins. above ground, marked and witnessed as described by the Surveyor-General.  
 At the 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,  
 H I R, in N. end,  
 T 24 N R 12 W, in S. half,  
 S 3 in SE., and  
 S 4 in SW. quadrants;  
 dig pits 24x18x12 ins., crosswise on each line, E. & W., 3 ft., and S. of cor. 7 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high S. of cor.  
 Land, rolling.  
 Soil, 3rd rate, sandy, gravelly.  
 Sparse sage brush, cacti. Good native grass.

Jan. 28, 1912.

William H. Elliott  
U.S. Surveyor.

Chains. Jesse B. Wright  
U.S. Surveyor

Jan. 23, 1912.  
At 3h a.m., l.m.t., at the cor. of secs. 4, 5, 32 & 33, in Book 8  
on the S. bdy. of the Tp., recently estab. by William H. Elliott & myself & described.  
I set off 35° 25' N. on the lat. arc, and 18° 23' S. on  
the decl. arc, and determine a meridian with the solar.  
Thence I run,  
N. 0° 3' W., bet. secs. 32 & 33.  
Over mts. broken land. asc.

19.00 Ridge, brs. NW. & SE., desc.  
30.50 Wash, 20 lks. wide, course NW., asc.  
39.00 Ridge, brs. NW. & SE., 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 32 in W., and  
S 33 in E. half; from which,  
A cedar tree 8 ins. diam. brs. N. 54° W. 225 lks. dist.,  
marked  $\frac{1}{4}$  S 32 B T.  
A cedar tree 6 ins. diam. brs. S. 29° E. 145 lks. dist.,  
marked  $\frac{1}{4}$  S 33 B T.

56.00 Wash, 20 lks. wide, course NW. asc.  
57.00 Small ridge, brs. NW. & SE., thence along E. slope of same.  
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 24 N R 12 W, in N. half,  
S 29 in NW.,  
S 28 in NE.,  
S 33 in SE., and  
S 32 in SW. quadrants; from which,  
A cedar tree 10 ins. diam. brs. N. 11 $\frac{1}{2}$ ° E. 190 lks. dist.,  
marked T 24 N R 12 W S 28 B T.  
Raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$  ft. high W. of cor.  
Land, broken, mts.  
Soil, 3rd rate, gravelly, dry.  
Scattering cedar, scrub oak, cacti. Fair grass.

East, on a random line, bet. secs. 28 & 33.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
80.02 Intersect N. & S. line 2 $\frac{1}{2}$  lks. S. of cor. of  
secs. 27, 28, 33 & 34, ~~hereinbefore~~ described, whence I run  
S. 89° 59' W., on a true line, bet. secs. 28 & 33.  
Over broken, heavily rolling land,  
2.00 Wash, 20 lks. wide, course NW.  
8.00 Asc.  
24.70 Top of ridge, brs. N. & S., desc.  
28.00 Wash, 10 lks. wide, course N., asc.  
37.50 Ridge, brs. N. & S., desc.  
40.01 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  
 $\frac{1}{4}$  S 28 in N., and  
S 33 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.

42.70 Wash, 10 lks. wide, course N., asc.  
51.00 Ridge, brs. N. & S., desc.  
60.60 Wash, 20 lks. wide, course NW., asc.  
72.00 Ridge, brs. NW. & SE., desc.  
78.50 Wash, 10 lks. wide, course NNW., asc.  
80.02 To cor. of secs. 28, 29, 32 & 33, ~~hereinbefore~~ described.  
Land, rolling, very broken.  
Soil, 3rd rate, gravelly, dry.  
Scattering cedar, scrub oak, cacti. Fair grass.

## Chains

- N.  $0^{\circ} 3'$  W., bet. secs. 28 & 29.  
Over rolling land.
- 14.00 Wash, 20 lks. wide, course NW.
- 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 S 28 in E. half; from which,  
A pinon tree 10 ins. diam. brs. N.  $55^{\circ}$  E. 115 lks. dist., marked  $\frac{1}{4}$  S 28 B T.  
A cedar tree 12 ins. diam. brs. N.  $51^{\circ}$  W. 343 lks. dist., marked  $\frac{1}{4}$  S 29 B T.
- 80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for cor. of secs. 20, 21, 23 & 29, marked on brass cap,  
T 24 N R 12 W, in N. half,  
S 20 in NW.,  
S 21 in NE.,  
S 28 in SE., and  
S 29 in SW. quadrants; from which,  
A cedar tree 22 ins. diam. brs. N.  $40\frac{1}{2}^{\circ}$  E. 185 lks. dist., marked T 24 N R 12 W S 21 B T.  
A cedar tree 16 ins. diam. brs. S.  $78^{\circ}$  W. 233 lks. dist., marked T 24 N R 12 W S 29 B T.  
A cedar tree 8 ins. diam. brs. N.  $7\frac{1}{2}^{\circ}$  W. 258 lks. dist., marked T 24 N R 12 W S 20 B T.  
Raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high W. of cor.  
Land, rolling, broken.  
Soil, 2nd & 3rd rate, gravelly, stony.  
Cedar, few pinons, cacti. Fair grass.  
At this cor., at noon, I set off  $18^{\circ} 22'$  S. on the decl. arc, and observe the sun on the meridian.  
The resulting lat. is  $35^{\circ} 27'$  N.
- 
- N.  $89^{\circ} 59'$  E., on a random line, bet. secs. 21 & 28.
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 80.02 Intersect N. & S. line  $2\frac{1}{2}$  lks. N. of cor. of secs. 21, 22, 27 & 28, ~~hereinbefore~~ described, whence I run West, on a true line, bet. secs. 21 & 28.  
Over broken, rolling land, sparse cedar.
- 10.00 Draw, 5 chs. wide, course N., asc.
- 20.00 Ridge, brs. N. & S., desc.
- 36.00 Wash, 50 lks. wide, course N., 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,  $\frac{1}{4}$  S 21 in N., and 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.
- 50.00 Top of flat ridge, brs. N. & S., desc.
- 77.90 Wash, 30 lks. wide, course WNW., asc.
- 80.02 To cor. of secs. 20, 21, 23 & 29, ~~hereinbefore~~ described.  
Land, rolling, broken.  
Soil, 3rd rate, gravelly.  
Cedar, scrub oak, cacti. Fair grass.

Chains.

N. 0° 3' W., bet. secs. 20 & 21.  
 Over rolling land, through scattering cedar.  
 2.00 Wash, 30 lks. wide, course WNW.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 25 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;  
 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.  
 63.50 Wash, 200 lks. wide, course NW.  
 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 12 W, in N. half,  
 S 17 in NW.,  
 S 16 in NE.,  
 S 21 in SE., and  
 S 20 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.  
 No bearings available.  
 Land, rolling.  
 Soil, 3rd rate, gravelly.  
 Sparse cedar, scrub oak, cacti. Fair grass.

East, on a random line, bet. secs. 16 & 21.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 79.98 Intersect N. & S. line 5 lks. S. of cor. of  
 secs. 15, 16, 21 & 22, ~~hereinbefore described~~, whence I run  
 S. 89° 53' W., on a true line, bet. secs. 16 & 21.  
 Over rolling land.  
 2.00 Asc.  
 5.00 Ridge, brs. NNE. & SSW. desc. NW. slope.  
 19.00 Foot, brs. NNE. & SSW., enter open, level sandy loam.  
 39.99 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
 the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  
 $\frac{1}{4}$  S 16 in N., and  
 S 21 in S. half;  
 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.  
 62.00 Dim old road, brs. NW. & SE.  
 79.92 To cor. of secs. 16, 17, 20 & 21, ~~hereinbefore described~~.  
 Land, rolling, level.  
 Soil, 2nd & 3rd rate, sandy, gravelly.  
 Sparse brush. Fair grass.

Jan. 23, 1912.

Jesse B. Wright  
U.S. Surveyor

of this book and

Chains.

William H. Elliott  
U.S. Surveyor

Jan. 29, 1912.  
At 8h a.m., l.m.t., at the cor. of secs. 16, 17, 20 & 21, <sup>hereinbefore</sup> described  
I set off  $18^{\circ} 7\frac{1}{2}'$  S. on the decl. arc, and  $35^{\circ} 28'$  N. on  
the lat. arc, and determine a meridian with the solar.

- Thence I run,  
N.  $0^{\circ} 5'$  W., bet. secs. 16 & 17.  
Over gently rolling land.
- 5.00 Telegraph line, brs. E. & W.
  - 6.50 Wash, 75 lks. wide, 12 ft. deep, course W.
  - 7.25 Centre of single track of A. T. & S. F. R.R., brs.  $S. 87^{\circ} W.$  &  $N. 87^{\circ} E.$
  - 7.64 Telegraph line, parallel to R.R.
  - 8.75 Wire fence, parallel to R.R.
  - 12.41 Road, brs. E. & W., Hackberry to Seligman. asc. grad.
  - 28.00 Ridge, brs. W. & E., desc.
  - 40.00 Foot of slope, brs. E. & W.
- Set an iron post 3 ft. long, 1 in. in diam, 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  
 $\frac{1}{4}$  S 17 in W., and  
S 16 in E. half;  
dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high W. of cor.
- 44.00 Wash, 15 lks. wide, course W.
  - 60.00 Asc. S. slope.
  - 70.00 Top of mesa, brs. E. & W.
  - 80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for cor. of secs. 8, 9, 16 & 17, marked on brass cap,
- T 24 N R 12 W, in N. half,  
S 9 in NW., and  
S 9 in NE.,  
S 16 in SE., and  
S 17 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.  
Soil, 2nd & 3rd rate, sandy, gravelly.  
Sparse undergrowth, Good native grass.

- 40.00 N.  $39^{\circ} 30'$  E., on a random line, bet. secs. 9 & 16. Set temp.  $\frac{1}{4}$  sec. cor.
  - 80.00 Intersected by a line at cor. of secs. 9, 10, 15 & 16, <sup>hereinbefore</sup> described, whence I run S.  $39^{\circ} 58'$  W., on a true line, bet. secs. 9 & 16.  
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 9 in N., and  
S 16 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.
  - 55.50 Wash, 50 lks. wide, course SW.
  - 80.00 To cor. of secs. 8, 9, 16 & 17. <sup>hereinbefore</sup> described
- Land, rolling.  
Soil, 3rd rate, gravelly, dry, loose.  
Sparse brush. Good native grass.  
At this cor., at noon, I set off  $18^{\circ} 6\frac{1}{2}'$  S. on the decl. arc, and observe the sun on the meridian.  
The resulting lat. is  $35^{\circ} 28\frac{1}{2}'$  N.

Chains.

N. 0° 3' W., bet. secs. 8 & 9.  
 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 8 in W., and S 9 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.

55.45 Road, brs. ENE. & WSW.

80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for cor. of secs. 4, 5, 8 & 9, marked on brass cap, T 24 N R 12 W, in N. half, S 5 in NW., S 4 in NE., S 9 in SE., and S 8 in SW. quadrants; dig pits 18x18x12 ins. in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high W. of cor. Land, rolling. Soil, 3rd rate, gravelly, loose, dry. Sparse sage brush, cacti. Good native grass.

N. 89° 58' E., on a random line, bet. secs. 4 & 9.

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

79.96 Intersect N. & S. line  $2\frac{1}{4}$  lks. S. of cor. of secs. 3, 4, 9 & 10, whence I run, S. 89° 57' W., on a true line, bet. secs. 4 & 9. Over open flat land.

27.00 Road, brs. NNE. & SSW, enter rolling land.

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 4 in N., and S 9 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.

79.96 To cor. of secs. 4, 5, 8 & 9. Land, rolling. Soil, 3rd rate, gravelly. Sparse brush. Good native grass.

N. 0° 3' W., bet. secs. 4 & 5.  
 Over rolling land.

21.75 Road, brs. NE. & SW.

37.17 Intersect South Boundary of Hualpai Indian Reservation at a point whence  $47\frac{1}{2}$  mile cor. on said line, brs. East, 5.40 chs. dist., which is a limestone 8x8x6 ins. above ground, marked and witnessed as described by the Surveyor-General. At the 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. 4 & 5, marked on brass cap, C C, S. of centre, H I R, in N., and T 24 N R 12 W, in S. half, S 5 in SW., and S 4 in SE. quadrants; dig pits 24x18x12 ins., crosswise on each line, E. & W. 3 ft., and S. of cor. 7 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high S. of cor. Land, rolling. Soil, 3rd rate, gravelly. Sparse sage brush, cacti. Fine native grass.

Jan. 29, 1912.

William H. Elliott  
U.S. Surveyor

Jesse B. Wright,  
U.S. Surveyor

Chains

Jan. 29, 1912.

At 8h a.m., l.m.t., at the cor. of secs. 5, 6, 31 & 32, <sup>in Book 8</sup>  
on the S. bdy. of the Tp. recently estab. by William H. Elliott & myself & described  
I set off 18° 07½' S. on the decl. arc, and 35° 25' N. on  
the lat. arc, and determine a meridian with the solar.  
Thence I run,

N. 0° 3' W., bet. secs. 31 & 32.

Over mts. land, desc. through dense cedar.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
the ground for ¼ sec. cor., marked on brass cap,  
¼ S 31 in W., and

S 32 in E. half; from which,

A cedar tree 6 ins. diam. brs. N. 65° E. 100 lks. dist.,  
marked ¼ S 32 B T.

A cedar tree 6 ins. diam. brs. N. 79° W. 85 lks. dist.,  
marked ¼ S 31 B T.

61.00 Wash, 20 lks. wide, course NW. asc. grad.

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 24 N R 12 W, in N. half,

S 30 in NW.,

S 29 in NE.,

S 32 in SE., and

S 31 in SW. quadrants; from which,

A cedar tree 8 ins. diam. brs. N. 52° E. 72 lks. dist.,  
marked T 24 N R 12 W S 29 B T.

A cedar tree 6 ins. diam. brs. S. 41½° E. 139 lks. dist.,  
marked T 24 N R 12 W S 32 B T.

A cedar tree 6 ins. diam. brs. S. 3° W. 17 lks. dist.,  
marked T 24 N R 12 W, S 31 B T.

No other bearings available.

Raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.

Land, rolling, mts.

Soil, 3rd rate, gravelly.

Cedar, pinon, fair grass.

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

40.00 Set temp. ¼ sec. cor.

80.04 Intersect N. & S. line 2 lks. N. of cor. of  
secs. 28, 29, 32 & 33, ~~hereinbefore~~ described, whence I run  
N. 89° 59' W., on a true line, bet. secs. 29 & 32.

Over rolling land, asc.

2.00 Ridge, brs. NNW. & SSE. desc.

16.00 Wash, 3 lks. wide, course NW. asc.

19.00 Ridge, brs. NNW. & SSE.

27.40 Wash, 20 lks. wide, course NW., asc.

37.50 Ridge, brs. NNW. & SSE., desc.

40.02 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
the ground for ¼ sec. cor., marked on brass cap,  
¼ S 29 in N., and

S 32 in S. half; from which,

A cedar tree 20 ins. diam. brs. N. 36° E. 66 lks. dist.,  
marked ¼ S 29 B T.

A cedar tree 8 ins. diam. brs. S. 25½° W. 132 lks. dist.,  
marked ¼ S 32 B T.

46.40 Wash, 30 lks. wide, course NW., asc. grad.

52.30 Wash, 30 lks. wide, course NW., asc.

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

Land, rolling, broken, mts.

Soil, 3rd rate, gravelly, dry.

Cedar, pinon, scrub oak, cacti. Good native grass.



Chains.

West, on a random line, bet. secs. 30 & 31.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 78.42 Intersect West bdy. of Tp. at cor. of secs. 25, 30, 31 & 36,  
 which is an iron post 3 ins. diam. 1 ft. above ground,  
 with brass cap, marked and witnessed as described by  
 the Surveyor-General; whence I run,  
 East, on a true line, bet. secs. 30 & 31.  
 Over high rolling mesa, slopes to E.  
 26.00 Wash, 20 lks. wide, course NE. asc.  
 36.50 Ridge, brs. N. & S., desc.  
 38.42 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
 the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  
 $\frac{1}{4}$  S 30 in N., and  
 S 31 in S. half; from which,  
 A cedar tree 8 ins. diam. brs. S.  $49\frac{3}{4}^{\circ}$  E. 52 lks. dist.,  
 marked  $\frac{1}{4}$  S 31 B T.  
 A cedar tree 6 ins. diam. brs. N.  $19\frac{1}{2}^{\circ}$  W. 57 lks. dist.,  
 marked  $\frac{1}{4}$  S 30 B T.  
 43.00 Wash, 10 lks. wide; course NW.  
 73.00 Asc. grad.  
 78.42 To cor. of secs. 29, 30, 31 & 32. **hereinbefore** described  
 Land, rolling,  
 Soil, 3rd rate, gravelly, stony, loose, dry.  
 Cedar, pinon, good grass.  
 At this cor., at noon, . . . , I set off  $18^{\circ} 6\frac{1}{2}'$  S. on  
 the decl. arc, and observe the sun on the meridian.  
 The resulting lat. is  $35^{\circ} 26'$  N.

N.  $0^{\circ} 3'$  W., bet. secs. 29 & 30.  
 Over gently undulating mesa, through scattering cedar.  
 22.10 Wash, 10 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 30 in W., and  
 S 29 in E. half; from which,  
 A cedar tree 7 ins. diam. brs. S.  $26\frac{1}{2}^{\circ}$  E. 107 lks. dist.,  
 marked  $\frac{1}{4}$  S 29 B T.  
 A cedar tree 7 ins. diam. brs. S.  $58^{\circ}$  W. 85 lks. dist.,  
 marked  $\frac{1}{4}$  S 30 B T.  
 73.00 Wash, 50 lks. wide, course WSW., asc.  
 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 24 N R 12 W, in N. half,  
 S 19 in NW.,  
 S 20 in NE.,  
 S 29 in SE. and  
 S 30 in SW. quadrants;  
 raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high W. of cor.  
 Land, rolling.  
 Soil, 3rd rate, gravelly, stony.  
 Cedar, scrub oak, fair grass.

S.  $89^{\circ} 59'$  E., on a random line, bet. secs. 20 & 29.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 79.98 Intersect N. & S. line  $2\frac{1}{4}$  lks. N. of cor. of  
 secs. 20, 21, 23 & 29, **hereinbefore** described, whence I run  
 N.  $89^{\circ} 59'$  W., on a true line, bet. secs. 20 & 29.  
 Over heavily rolling land.  
 15.83 Dim road, brs. NNW. & SSE.  
 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 20 in N., and  
 S 29 in S. half;  
 raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high N. of cor.  
 73.00 Wash, 30 lks. wide, course SW.  
 79.98 To cor. of secs. 19, 20, 29 & 30. **hereinbefore** described  
 Land, rolling. Soil, 3rd rate, gravelly.  
 Sparse cedar, scrub oak, good grass.

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Chains

West, on a random line, bet. secs. 19 & 30.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 78.36 Intersect W. bdy. of Tp. 5 lks. N. of cor. of  
 secs. 19, 24, 25 & 30, 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 1 run,  
 N.  $89^{\circ}58'$  E., on a true line, bet. secs. 19 & 30.  
 Over broken rolling land, desc. grad.  
 8.53 Road, brs. NNW. & SSE.  
 33.36 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  $5\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of cor.  
 55.56 Road, brs. NNE. & SSW.  
 78.36 To cor. of secs. 19, 20, 29 & 30, **hereinbefore** described.  
 Land, rolling, broken.  
 Soil, 3rd rate, granite gravel.  
 Scattering cedar, scrub oak. Fair grass.

N.  $0^{\circ}3'$  W., bet. secs. 19 & 20.  
 Over rolling broken land .  
 11.82 Road, brs. E. & W.  
 20.30 Dia road, brs. NW. & SE.  
 25.00 Wash, 25 lks. wide, course WNW.  
 37.50 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 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.  
 46.00 Asc.  
 64.00 Ridge, brs. SW. & NE. desc.  
 70.00 Foot, brs. NE. & SW., enter flat.  
 78.00 Wash, 10 lks. wide, course WSW., desc. grad.  
 79.17 Telegraph line, brs. ENE. & WSW.  
 As cor. point will fall in a wash, at  
 79.25 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in  
 the ground for witness cor. to cor. of  
 secs. 17, 18, 19 & 20, marked on brass cap,  
 W C , S. of centre,  
 T 24 N R 12 W, in N. half,  
 S 18 in NW.,  
 S 17 in NE.,  
 S 20 in SE., and  
 S 19 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.  
 79.62 Wire fence, brs. ENE. & WSW.  
 80.00 Cor point <sup>of secs. 17, 18, 19 & 20</sup> in wash, 40 lks. wide, course WSW.  
 Land, rolling.  
 Soil, 3rd rate, gravelly, sandy.  
 Few cedars, sage brush, cacti, fair grass.

bedrock established

Jan. 29, 1912.

bedrock established.

Chains.

Jan. 30, 1912.  
At 8h a.m., 1 m.m., at the true pt. for <sup>cor.</sup> of secs. 17, 18, 19 & 20, <sup>hereinbefore</sup> <sub>noted.</sub>

- I set off 35° 28' N. on the lat. arc, and 17° 51' S. on the decl. arc, and determine a meridian with the solar.
- Thence I run, S. 39° 58' E., on a random line, bet. secs. 17 & 20.
- 40.00 Set temp. ¼ sec. cor.
- 80.04 Intersect N. & S. line 7 lks. S. of cor. of secs. 16, 17, 20 & 21, whence I run, S. 39° 59' W., on a true line, bet. secs. 17 & 20. Over rolling land.
- 4.00 Wash, 200 lks. wide, course WNW., 15 ft. deep.
- 40.02 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for ¼ sec. cor., marked on brass cap, ¼ S 17 in N., and S 20 in S. half; dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor.
- 67.00 Wash, 3 lks. wide, course SW.
- 75.62 Telegraph line, brs. ENE. & WSW.
- 77.95 Wire fence, brs. ENE. & WSW.
- 80.04 To cor. pt. of secs. 17, 18, 19 & 20, hereinbefore noted. Land, rolling. Soil, 3rd rate, sandy, gravelly. loose. Open land, Good native grass.

- S. 39° 58' W., on a random line, bet. secs. 18 & 19.
- 40.00 Set temp. ¼ sec. cor.
- 78.25 Intersect West bdy. of Tp. at cor. of secs. 13, 18, 19 & 24, 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, N. 39° 58' E., on a true line, bet. secs. 18 & 19. Over rolling land.
- 4.25 Wash, 25 lks. wide, course SW.
- 7.30 Road, brs. NE. & SW.
- 9.25 Wash, 30 lks. wide, course SW.
- 18.25 Small malapais ridge, brs. NE. & SW.
- 38.25 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for ¼ sec. cor., marked on brass cap, ¼ S 18 in N., and S 19 in S. half; dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor.
- 66.80 Road, brs. NE. & SW.
- 68.02 Wire fence, brs. NE. & SW.
- 70.85 Telegraph line, brs. NE. & SW.
- 70.95 Flood lateral ditch, course SW.
- 72.52 Atchison, Topeka & Santa Fe. R.R., brs. NE. & SW., on curve to SW. & E.
- 78.25 To cor. point of secs. 17, 18, 19 & 20. in wash, 40 lks. wide course WSW. Land, rolling. Soil, 3rd rate, sandy, gravelly. Sparse sage brush, cacti. Good native grass.

At this cor., at noon, I set off 17° 50½' S. on the decl. arc, and observe the sun on the meridian. The resulting lat. is 35° 28' N.

Jan. 30, 1912.

Jesse B. Wright  
U.S. Surveyor.

Chains.

W.H.Elliott.  
U.S. Surveyor

Jan. 30, 1912.  
At 9h a.m., l.m.t., at the cor. <sup>point</sup> of secs. 17, 18, 19 & 20, <sup>hereinbefore described.</sup>

I set off  $17^{\circ} 51\frac{1}{2}'$  S. on the decl. arc, and  $35^{\circ} 27\frac{1}{2}'$  N. on the lat. arc, and determine a meridian with the solar. Thence I run,

N.  $0^{\circ} 3'$  W., bet. secs. 17 & 18. from cor. point in wash. Over rolling land.

1.17 Atchison, Topeka & Santa Fe. Railroad, brs. NE. & SW., on curve.

2.20 Flood lateral, course SW.

2.64 Telegraph line, brs. SW. & NE.

2.72 Wire fence, brs. NE. & SW. parallels R.R.

4.55 Road, Kingman to Seligman, brs. NE. & 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 18 in W., and S 17 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, 2 ins. in diam. 24 ins. in the ground for cor. of secs. 7, 8, 17 & 18, marked on brass cap,

T 24 N R 12 W, in W. half,

S 7 in NW.,

S 8 in NE.,

S 17 in SE., and

S 18 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.

Soil, 2nd & 3rd rate, sandy, loose,

Sparse cacti & sage brush. Good native grass.

N.  $89^{\circ} 59'$  E., on a random line, bet. secs. 8 & 17.

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

80.00 Intersect N. & S. line  $2\frac{1}{2}$  lks. N. of cor. of secs. 8, 9, 16 & 17, ~~hereinbefore~~ <sup>hereinbefore</sup> described, whence I run West, on a true line, bet. secs. 8 & 17.

Over rolling land.

40.03 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 8 in N., and S 17 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.

44.50 Wash, 10 lks. wide, course SSW.

80.00 To cor. of secs. 7, 8, 17 & 18. ~~hereinbefore~~ <sup>hereinbefore</sup> described, whence I run

Land, rolling.

Soil, 3rd rate, sandy, gravelly.

Open land. Good grass.

S.  $89^{\circ} 53'$  W., on a random line, bet. secs. 7 & 18.

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

78.16 Intersect West Bdy. of Tp.  $2\frac{1}{2}$  lks. N. of cor. of secs. 7, 12, 13 & 18 which is an iron post 3 ins. in diam., 1 ft. above ground, with brass cap, marked & witnessed, N.  $89^{\circ} 57'$  E., on a true line, bet. secs. 7 & 18. <sup>as described by the Surveyor General, whence I run,</sup>

Over rolling land.

38.16 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 7 in N., and S 18 in S. half;

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.

54.20 Wash, 40 lks. wide, course SSW.

75.40 Road, brs. NE. & SW.

78.16 To cor. of secs. 7, 8, 17 & 18. ~~hereinbefore~~ <sup>hereinbefore</sup> described

Land, rolling. Soil, 3rd rate, sandy. Good grass.

Subdivision of T. 24 N., R. 12 W.

Chains

N. 0° 3' W., bet. secs. 7 & 8.  
 Over rolling land.  
 5.35 Road, brs. NE. & SW.  
 32.90 Wash, 10 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 7 in W., and S 8 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, 2 ins. in diam. 24 ins. in the ground for cor. of secs. 5, 6, 7 & 8, marked on brass cap,  
 T 24 N R 12 W, in N. half,  
 S 6 in NW.,  
 S 5 in NE.,  
 S 8 in SE., and  
 S 7 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.  
 Soil, 3rd rate, sandy, gravelly, loose, dry.  
 Sparse sage brush, cacti. Good native grass.

East, on a random line, bet. secs. 5 & 8.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 80.10 Intersect N. & S. line 5 lks. S. of cor. of secs. 4, 5, 6 & 9, ~~hereinbefore described~~, whence I run S. 89° 58' W., on a true line, bet. secs. 5 & 8.  
 Over rolling land.  
 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 5 in N., and S 8 in S. half, dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of cor.  
 41.00 Road, brs. NE. & SW.  
 80.10 To cor. of secs. 5, 6, 7 & 8. ~~hereinbefore described~~  
 Land, rolling.  
 Soil, 3rd rate, sandy, gravelly, loose.  
 Sparse sage brush, cacti. Good native grass.  
 At this cor., at noon, . . . , I set off 17° 50 $\frac{1}{2}$ ' S. on the decl. arc, and observe the sun on the meridian.  
 The resulting lat. is 35° 29 $\frac{1}{2}$ ' N.

S. 89° 57' W., on a random line, bet. secs. 6 & 7.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 78.10 Intersect West bdy. of Tp. 5 lks. N. of cor. of secs. 1, 5, 7 & 12, 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,  
 N. 89° 55' E., on a true line, bet. secs. 6 & 7.  
 Over rolling land, through sparse cedar.  
 38.10 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 6 in N., and S 7 in S. half; from which,  
 A cedar tree 5 ins. diam. brs. N. 17 $\frac{1}{4}$ ° E. 123 lks. dist., marked  $\frac{1}{4}$  S 6 B.T.  
 A cedar tree 8 ins. diam. brs. S. 74 $\frac{1}{2}$ ° E. 272 lks. dist., marked  $\frac{1}{4}$  S 7 B.T.  
 51.00 Small ridge, brs. S. & N., leave cedar, desc. grad.  
 78.10 To cor. of secs. 5, 6, 7 & 8. ~~hereinbefore described~~  
 Land, rolling. Soil, 3rd rate, sandy, gravelly.  
 Sparse cedar, fair grass.

Chains.

N. 0° 5' W., bet. secs. 5 & 6.

Over rolling land.

32.00 Enter sparse cedar, brs. E. & W.

37.55 Intersect South Boundary of Hualpai Indian Reservation at a point whence

46½ mile cor. on said line brs. East, 5.49 chs. dist., which is a limestone 10x6x8 ins. above ground, marked and witnessed as described by the Surveyor-General.

At the 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, S. of centre,

H I R, in N., and

T 24 N R 12 W, in S. half,

S 5 in SE., and

S 6 in SW. quadrants, or sectors,

from which,

A cedar tree 8 ins. diam. brs. S. 56½° E. 144 lks. dist., marked T 24 N R 12 W S 5 C C B T.

A cedar tree 10 ins. diam. brs. S. 14¾° W. 224 lks. dist., marked T 24 N R 12 W S 6 C C B T.

Land, rolling.

Soil, 3rd rate, gravelly, loose, dry

Sparse cedar & sage brush. Good native grass.

William H. Elliott

U.S. Surveyor.

General Description.

General Description.

T. 24 N., R. 12 W. is in general rolling, or broken in the north half, and broken and mountainous in the south half, and is fair grazing land throughout.

The southern portion is covered with a fair growth of cedar, dense in places.

There is no water in the Tp.

The rock formation consists of malapais and granite in the southern part, trending to gravel conglomerate in the north half. There are no indications of mineral in the Tp.

Several small reservoirs have been constructed in the main washes for watering stock, but there are no permanent structures or settlers in the Tp.

Jesse B. Wright

William H. Elliott

U. S. Surveyors.

Note

The south half, including the T. & R. centre lines, of this Tp. was surveyed by Jesse B. Wright. The north half, was surveyed by William H. Elliott.

Jan. 30, 1912.

General Description

Subdivisions Group 13

for CERTIFICATE OF ASSISTANTS to  
JESSE B. WRIGHT, U.S. Surveyor, See Book "V"  
WILLIAM H. ELLIOTT, " " " " " " " " " " " X"

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability,  
....., U. S. Surveyor, during the periods and in the capacities  
stated opposite our several signatures, in surveying all those parts or portions of .....

of the ..... Meridian, in the State of .....  
which are represented in the foregoing field notes as having been executed by him, and under his direc-  
tion; 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.	

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

Subdivisions Group 13

106 a  
8

for FINAL OATH OF UNITED STATES SURVEYOR.

JESSE B. WRIGHT, See Book "V"  
WILLIAM H. ELLIOTT, " " "X"

I, \_\_\_\_\_, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for \_\_\_\_\_ bearing date of the \_\_\_\_\_ day of \_\_\_\_\_, 191\_\_\_\_, 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, surveyed all those parts or portions of \_\_\_\_\_ of the \_\_\_\_\_ Meridian, in the State of \_\_\_\_\_, 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 \_\_\_\_\_ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

U. S. Surveyor.

Subscribed by said \_\_\_\_\_, and sworn to before me }  
this \_\_\_\_\_ day of \_\_\_\_\_, 191\_\_\_\_



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona, April 21, 1913

The foregoing field notes of the survey of \_\_\_\_\_

the subdivision lines of Township 24 North, Range 12 West

Gila & Salt River Base & Meridian

Arizona

executed by Jesse B. Wright & William H. Elliott, U.S. Surveyors  
under <sup>their</sup> special instructions <sup>for Group 13</sup> dated August 28, 191\_\_\_\_, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank S. Galloway  
U. S. Surveyor General.

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.