

Book "V" **BOOK 2440**

# FIELD NOTES

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

Subdivision of T. 28 N., R. 17 W.

Of the Gila and Salt River Base and Meridian,

In the State of Arizona.

EXECUTED BY

Jesse B. Wright,

In the capacity of U. S. Surveyor, under instructions dated August 28, 1911,

issued by the United States Surveyor General to govern surveys included in

Group No. 13, 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 February 25, 1912

Survey completed March 3, 1912

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BOOK 2440

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Chains.

Survey commenced Feb. 25, 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.

At the cor. of secs. 1, 2, 35 & 36, on the South bdy. of the Tp., as recently<sup>in Book 7</sup> established by me, and heretofore described, lat.  $35^{\circ}46'13''$  N., long.  $114^{\circ}03'22''$  W.,

I examine and test all the adjustments of the transit and solar apparatus, and finding same correct; then in order to test the solar apparatus, by comparing the results of observations for meridians, on sun, made at p.m. & a.m. hours respectively, with a true meridian determined by observation of Polaris, I proceed as follows :-

At 4h p.m., l.m.t., at the cor. above described, I set off  $9^{\circ}16'$  S. on the decl. arc, and  $35^{\circ}46'$  N. on the lat. arc, and determine a meridian with the solar, and mark a point in the meridian thus determined by a tack in a stake driven firmly in the ground 5 chs. N. of my station. The indications portending to-night cloudy,

At 6h 10m p.m., l.m.t., I observe Polaris three hours after upper culmination, and from this line I set off an angle of  $1^{\circ}03'$  to the East, this being the azimuth of Polaris for this hour, and mark the true meridian thus determined by a tack in the stake driven in the ground 5 chs. N. of my station, which point falls .40 ins. E. of the point in the meridian as determined by the solar.

Feb. 25, 1912.

Feb. 26, 1912.

At 8h a.m., l.m.t., at the cor. and point above described, I set off  $9^{\circ}01\frac{1}{2}'$  S. on the decl. arc, and  $35^{\circ}46'$  N. on the lat. arc, and determine a meridian with the solar, and mark a point in the meridian thus determined by a tack in the stake driven in the ground 5 chs. N. of my station, which point falls .30 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  $26''$  W., and  $16''$  E. respectively, of the true meridian as determined by observation of Polaris; therefore, from these observations I conclude that the instrument is in satisfactory adjustment.

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

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

Chains	
	N. 0° 1' W., bet. secs. 35 & 36. Over rolling land asc. grad., through dense greasewood cacti, and sage brush.
18.00	Old road, brs. WNW. & 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 35 in W., and S 36 in E. half; dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
64.00	Low spur, in saddle, brs. WSW. & ENE., desc.
79.90	Gulch, 15 lks. wide, course SSW., asc.
80.00	Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for cor. of secs. 25, 26, 35 & 36, marked on brass cap, T 28 N R 17 W, in N. half, S 26 in NW., S 25 in NE., S 36 in SE., and S 35 in SW. quad.; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Land, rolling, mts. Soil, 3rd rate, sandy, gravelly, stony, loose, dry. Greasewood, sage brush, cacti, fair grass.
	East, on a random line, bet. secs. 25 & 36.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.04	Intersect East bdy. of Tp. 7 lks. N. of cor. of secs. 25, 30, 31 & 36, <del>recently established &amp; described by me</del> <sup>in Book 6</sup> whence I run, N. 89° 57' W., on a true line, bet. secs. 25 & 36. Over mts. land, desc. prec. W. slope.
15.00	Enter stony granite draw, course SW.
30.00	Leave draw, asc. SSE. slope.
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 25 in N., and S 36 in S. half; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
53.00	Top of sharp round, stony butte, on spur, brs. SSW., from N., desc.
60.00	Saddle, brs. E. & W., asc.
77.70	Spur, brs. SSW., from N., desc.
80.04	To cor. of secs. 25, 26, 35 & 36. <del>heretofore described.</del> Land, mts. Soil, 4th rate, stony. Sparse greasewood, cacti, native grass. At this cor., at noon, I set off 8° 59' S. on the decl. arc, and observe the sun on the meridian. The resulting lat. is 35° 47' N.

## Subdivision of T. 28 N., R. 17 W.

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- Chains. From the cor. of secs. 2, 3, 34 & 35 on the S. bdy of the Tp. recently re-estab. & described by me, in Book 7, I run, N. 0° 1' W., bet.  $\frac{1}{4}$  secs. 34 & 35.
- Over gently rolling land, asc. grad, open, barren land.
- 7.00 Road, brs. NNE. & SSW.
- 18.00 Pipe line, from spring in mts. to N., to ranch of Clay Springs Cattle Co.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 34 in W., and S 35 in E. half; dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high W. of cor.
- 67.00 Road, brs. NW. & SE.
- 76.00 Wash, 20 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. 26, 27, 34 & 35, marked on brass cap, T 28 N R 17 W, in N. half, S 27 in NW., S 26 in NE., S 35 in SE., and S 34 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.  
Sparse sage brush, cacti, native grass.
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- East, on a random line, bet. secs. 26 & 35.
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 80.00 Intersect N. & S. line 5 lks. N. of cor. of secs. 25, 26, 35 & 36, ~~hereinbefore~~ described, whence I run N. 89° 58' W., on a true line, bet. secs. 26 & 35. Over mts. land, asc.
- 12.00 Spur, brs. SSW. & NNE., desc.
- 24.00 Foot, brs. N. & S., enter valley, desc. grad.
- 34.00 Wash, 100 lks. wide, course 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 26 in N., and S 35 in S. half; dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of cor.
- 44.05 Road, brs. SW. & NE., Ranch to spring.
- 44.65 Pipe line, brs. N. 23° E. & S. 23° W. Spring, about 1 mile to NNE.
- 76.00 Wash, 40 lks. wide, course SW.
- 80.00 To cor. of secs. 26, 27, 34 & 35. ~~hereinbefore~~ described
- Land, mts., rolling.  
Soil, 3rd & 4th rate, stony, gravelly, loose, dry.  
Sage brush, cacti, greasewood, sparse grass.  
To the North, throughout this range of secs., the land is extremely rough and barren and mountainous, being worthless for agricultural and grazing purposes, and so rough as to be impracticable to survey.

Feb. 26, 1912.

Chains.

Feb. 27, 1912. hereinbefore described  
 At 8h a.m., l.m.t., at the cor. of secs. 26, 27, 34 & 35,  
 I set off 8°39' S. on the decl. arc, and 35°47' N. on  
 the lat. arc, and determine a meridian with the solar.  
 Thence I run,  
 N. 0° 1' W., bet. secs. 26 & 27.  
 Over rolling land.  
 6.50 Wash, 40 lks. wide, course W.  
 13.50 Wash, 15 lks. wide, course WNW., asc. WSW. slope.  
 17.00 Top of W. side of spur, thence along same.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
 the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  
 $\frac{1}{4}$ S 27 in W., and  
 S 26 in E. half;  
 raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.  
 43.00 Head of draw, course SW., asc. SSE. slope.  
 58.00 Spur, brs. WSW. & ENE., thence along W. slope.  
 76.00 Saddle, brs. ENE. & WSW., thence along W. slope.  
 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 28 N R 17 W, in N. half,  
 S 22 in NW.,  
 S 23 in NE.,  
 S 26 in SE., and  
 S 27 in SW. quad.;  
 raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.  
 Land, rolling., mts., broken.  
 Soil, 3rd & 4th rate, gravelly, stony, dry.  
 Sparse sage brush, greasewood, cacti.

N. 0° 1' W., bet. secs. 22 & 23.  
 Over mts. land, desc.

17.00 Along foot of W. point of spur.  
 25.00 Asc. S. slope.  
 37.14 Top of spur, brs. W. & E., point 15 chs. to W., 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 22 in W., and  
 S 23 in E. half;  
 raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.  
 50.00 Enter draw, course W., thence over stony land in same.  
 75.00 Leave draw, asc.  
 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 28 N R 17 W, in N. half;  
 S 15 in NW.,  
 S 14 in NE.,  
 S 23 in SE., and  
 S 22 in SW. quad.;  
 raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.  
 Land, rolling, broken, mts.  
 Soil, 3rd & 4th rate, gravelly, stony.  
 Sparse greasewood, cacti, native grass.

N. 0° 1' W., bet. secs. 14 & 15.

Over mts. land, asc. prec. S. slope.  
 25.00 Top of high rocky ridge, brs. WNW. & ESE., desc. steep.  
 40.00 Cor. point for  $\frac{1}{4}$  sec. cor., falls in rocky gulch 600 ft.  
 deep, course W., asc. prec.  
 47.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
 the ground for witness cor. to  $\frac{1}{4}$  sec. cor., marked on  
 brass cap, W C  $\frac{1}{4}$  N. of centre,  
 S 14 in SE., and  
 S 15 in SW. quad.;  
 raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.  
 At this cor., at noon, I set off 8°36½' S. on the decl.  
 arc, and observe the sun on the meridian.  
 The resulting lat. is 35°49' N.

## Chains.

- 47.30 Top of granite ledge 40 ft. high, brs. E. & W., on top of granite ridge, brs. W. & E., desc.  
 70.00 Gulch, 50 lks. wide, course WSW., asc.  
 80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in ground for cor. of secs. 10, 11, 14 & 15, marked on brass cap, T 28 N R 17 W, in N. half;  
     S 10 in NW.,  
     S 11 in NE.,  
     S 14 in SE., and  
     S 15 in SW. quad.;
- raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.  
 Land, mts., broken.  
 Soil, 3rd rate, stony.  
 Sparse cacti, greasewood, tesselata, native grass.

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N. 0° 1' W., bet. secs. 10 & 11.

- Over mts. land, ascending.  
 8.00 Top of high rocky ridge, brs. W. & E., desc.  
 30.00 Foot of main slope, brs. NE. & SW., thence along near foot of W. slope of mts.  
 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 10 in W., and  
     S 11 in E. half;  
     dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and  
     raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor.  
 43.00 Wash, 20 lks. wide, course WSW.  
 55.63 Road, brs. WSW. & ENE.  
 61.00 Wash, 50 lks. wide, course WSW.  
 80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for cor. of secs. 2, 3, 10 & 11, marked on brass cap, T 28 N R 17 W, in N. half,  
     S 3 in NW.,  
     S 2 in NE.,  
     S 11 in SE., and  
     S 10 in SW. quad.;
- raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.  
 Land, rolling, mts., broken.  
 Soil, 3rd & 4th rate, gravelly, stony.  
 Greasewood, cacti, sage brush, fair grass.

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N. 0° 1' W., on a random line, bet. secs. 2 & 3.

- 40.00 Set temp. ¼ sec. cor.  
 80.00 Intersect N. Bdy. of Tp. at cor. of secs. 2, 3, 34 & 35, recently established & described by me <sup>in Book 6</sup> whence I run, S. 0° 1' E., on a true line, bet. secs. 2 & 3.  
 Over heavily rolling, broken land, near foot of W. slope of mts.  
 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 3 in W., and  
     S 2 in E. half;  
     dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and  
     raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor.  
 80.00 To cor. of secs. 2, 3, 10 & 11 ~~hereinafter~~ described  
 Land, rolling, broken.  
 Soil, 3rd rate, gravelly, stony, loose, dry.  
 Greasewood, cacti, sage brush, fair grass.

Feb. 27, 1912.

Chains.

- Feb. 28, 1912.  
At 8h a.m., l.m.t., at the cor. of secs. 3, 4, 33 & 34, on the S. bdy. of the Tp., recently reestablished & described by me, in Book 7, I set off  $8^{\circ}16\frac{1}{2}'$  S. on the decl. arc, and  $35^{\circ}46'$  N. on the lat. arc, and determine a meridian with the solar. Thence I run,  
N.  $0^{\circ}2'$  W., bet. secs. 33 & 34.  
Over level valley, through dense large joshua cacti & 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 33 in W., and S 34 in E. half;  
dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high W. of cor.
- 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 28 N R 17 W, in N. half,  
S 28 in NW.,  
S 27 in NE.,  
S 34 in SE., and  
S 33 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, gently undulating.  
Soil, 3rd rate, sandy, gravelly, loose, dry.  
Cacti, greasewood, sage brush, sparse grass.
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- 40.00 East, on a random line, bet. secs. 27 & 34.  
Set temp.  $\frac{1}{4}$  sec. cor.
- 79.96 Intersect N. & S. line at cor. of secs. 26, 27, 34 & 35, ~~herebefore described~~, whence I run  
West, on a true line, bet. secs. 27 & 34.  
Over rolling land, desc. grad.
- 10.37 Road, brs. SE. & NW.
- 12.00 Wash, 10 lks. wide, course SW.
- 39.98 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 27 in N., and S 34 in S. half;  
dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of cor.
- 79.96 To cor. of secs. 27, 28, 33 & 34 ~~herebefore described~~  
Land, rolling.  
Soil, 3rd rate, sandy, gravelly, loose, dry.  
Cacti, greasewood, sage brush, sparse grass.
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- N.  $0^{\circ}2'$  W., bet. secs. 27 & 28.  
Over gently undulating land.
- 19.50 Wash, 50 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 28 in W., and 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.
- 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 28 N R 17 W, in N. half,  
S 21 in NW.,  
S 22 in NE.,  
S 27 in SE., and  
S 28 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.  
At this cor., at noon, I set off  $8^{\circ}14'$  S. on the decl. arc, and observe the sun on the meridian.  
The resulting lat. is  $35^{\circ}46'$  N.



## Chains

- East, low a random line, bet. secs. 22 & 27.
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 80.04 Intersect N. & S. line 5 lks. N. of cor. of secs. 22, 23, 26 & 27, ~~hereinbefore described~~, whence I run N.  $89^{\circ}58'$  W., on a true line, bet. secs. 22 & 27. Over mts. broken land, along N. slope of ridge, near foot. descending gradually.
- 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 22 in N., and S. 27 in S., half; raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high N. of cor.
- 52.00 Enter valley, brs. NE. & SW. desc. grad.
- 54.25 Road, brs. NNE. & SSW.
- 80.04 To cor. of secs. 21, 22, 27 & 28 ~~hereinbefore described~~  
Land, mts., rolling.  
Soil, 3rd & 4th rate, stony, gravelly, dry.  
Greasewood, cacti, sage brush, fair grass.
- 
- N.  $0^{\circ}2'$  W., bet. secs. 21 & 22.  
Over gently rolling land, through dense large cacti & 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 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.
- 62.00 Wash, 20 lks. wide, course SW.
- 80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for cor. of secs. 15, 16, 21 & 22, marked on brass cap, T 28 N R 17 W, in N. half, S 16 in NW., S 15 in NE., S 22 in SE., and S 21 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.  
Cacti, greasewood, sage brush, good grass.
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- S.  $89^{\circ}58'$  E., on a random line, bet. secs. 15 & 22.
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 79.98 Intersect N. & S. line 5 lks. S. of cor. of secs. 14, 15, 22 & 23, ~~hereinbefore described~~, whence I run West, on a true line, bet. secs. 15 & 22. Over mts. land, asc. SE. slope.
- 16.00 Spur, brs. SW. & NE., desc.
- 36.00 Foot of main slope, brs. N. & S., enter gently rolling valley.
- 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 15 in N., and S 22 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.
- 63.00 Road, brs. N. & S.
- 64.00 Road, brs. NW. & SE., joins above road, 4 chs. to SE.
- 79.98 To cor. of secs. 15, 16, 21 & 22 ~~hereinbefore described~~  
Land, mts., rolling.  
Soil, 3rd rate, stony, gravelly, loose, dry.  
Greasewood, cacti, good grass.

Feb. 28, 1912.

Chains.	<p>Feb. 29, 1912.</p> <p>At 8h a.m., l.m.t., at the cor. of secs. 15, 16, 21 &amp; 22, <b>hereinbefore described</b>  I set off <math>7^{\circ}54'</math> S. on the decl. arc, and <math>35^{\circ}49'</math> N. on the lat. arc, and determine a meridian with the solar. Thence I run,  N. <math>0^{\circ}2'</math> W., bet. secs. 15 &amp; 16.  Over rolling land, drains to W., through dense cacti.</p> <p>12.00 Road, brs. WNW. &amp; ESE.</p> <p>32.00 Wash, 50 lks. wide, course W.</p> <p>40.00 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 15 in E. half;  dig pits 18x18x12 ins. N. &amp; S. of cor. 3 ft. dist., and raise a mound of earth <math>3\frac{1}{2}</math> ft. base, <math>1\frac{1}{2}</math> ft. high W. of cor.</p> <p>80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for cor. of secs. 9, 10, 15 &amp; 16, marked on brass cap, T 28 N R 17 W, in N. half,  S 9 in NW.,  S 10 in NE.,  S 15 in SE., and  S 16 in SW. quad.;  dig pits 18x18x12 ins. in each sec. <math>5\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, loose. Cacti, greasewood, good grass.</p> <hr/> <p>East, on a random line, bet. secs. 10 &amp; 15.</p> <p>40.00 Set temp. <math>\frac{1}{4}</math> sec. cor.</p> <p>80.08 Intersect N. &amp; S. line 7 lks. N. of cor. of secs. 10, 11, 14 &amp; 15, <b>hereinbefore described</b>, whence I run N. <math>89^{\circ}57'</math> W., on a true line, bet. secs. 10 &amp; 15.  Over mts. land, along S. slope.</p> <p>20.00 Desc. SW. slope.</p> <p>30.00 Foot of main slope, brs. NNW. &amp; SE., enter valley, desc. grad.</p> <p>40.04 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 N., and  S 15 in S. half;  dig pits 18x18x12 ins. E. &amp; W. of cor. 3 ft. dist., and raise a mound of earth <math>3\frac{1}{2}</math> ft. base, <math>1\frac{1}{2}</math> ft. high N. of cor.</p> <p>47.80 Road, brs. NNE. &amp; SSW.</p> <p>80.08 To cor. of secs. 9, 10, 15 &amp; 16 <b>hereinbefore described</b>  Land, mts., rolling.  Soil, 3rd rate, stony, gravelly, dry.  Cacti, greasewood, fair grass.  At this cor., at noon, I set off <math>7^{\circ}51'</math> S. on the decl. arc, and observe the sun on the meridian.  The resulting lat. is <math>35^{\circ}49\frac{1}{2}'</math> N.</p> <hr/> <p>N. <math>0^{\circ}2'</math> W., bet. secs. 9 &amp; 10.  Over rolling land, drains to W., through dense large cacti &amp; greasewood.</p> <p>40.00 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 9 in W., and  S 10 in E. half;  dig pits 18x18x12 ins. N. &amp; S. of cor. 3 ft. dist., and raise a mound of earth <math>3\frac{1}{2}</math> ft. base, <math>1\frac{1}{2}</math> ft. high W. of cor.</p> <p>43.00 Wash, 30 lks. wide, course W.</p> <p>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 &amp; 10, marked on brass cap, T 28 N R 17 W, in N. half,  S 4 in NW., S 3 in NE.,  S 10 in SE., and S 9 in SW. quad.;  dig pits 18x18x12 ins. in each sec. <math>5\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, gravelly. Dense cacti.</p>
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## Chains.

- S. 89°57' E., on a random line, bet. secs. 3 & 10.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 79.96 Intersect N. & S. line  $2\frac{1}{2}$  lks. S. of cor. of  
 secs. 2, 3, 10 & 11, ~~hereinbefore~~ <sup>whence I run</sup>  
 N. 89°58' W., on a true line, bet. secs. 3 & 10.  
 Over rolling land.  
 38.30 Road, brs. N. & S.  
 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 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  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of cor.  
 79.96 To cor. of secs. 3, 4, 9 & 10, ~~hereinbefore~~ described  
 Land, rolling.  
 Soil, 3rd rate, sandy, gravelly, loose, dry.  
 Greasewood, cacti, sage brush, good grass.

- N. 0° 2' W., on a random line, bet. secs. 3 & 4.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 79.97 Intersect N. bdy. of Tp.  $2\frac{1}{2}$  lks. E. of cor. of <sup>in Book 6</sup>  
 secs. 3, 4, 33 & 34, ~~recently estab. & described by me~~ <sup>whence I run,</sup>  
 S. 0° 3' E., on a true line, bet. secs. 3 & 4.  
 Over heavily rolling, broken land, ascend.  
 3.00 Low spur, brs. SW. & NE., desc.  
 24.00 Wash, 80 lks. wide, course SW., asc. grad.  
 39.90 Old road, brs. SW. & NE., follows pipe line.  
 39.95 Pipe line, from spring in mts. to NE., to old Gold Basin  
 mill, brs. N. 58° E. & S. 58° W., thence desc. grad.  
 39.97 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in  
 the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  
 $\frac{1}{4}$  S 4 in W., and  
~~the~~ <sup>S 5 in E. half.</sup>  
 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.  
 55.57 Wash, 80 lks. wide, course WSW.  
 68.50 Wash, 80 lks. wide, course WSW.  
 79.97 To cor. of secs. 3, 4, 9 & 10, ~~hereinbefore~~ described.  
 Land, rolling, broken.  
 Soil, 3rd rate, sandy, gravelly, loose, dry.  
 Cacti, greasewood, sage brush, fair grass.

Feb. 29, 1912.

Chains. March 1, 1912.  
 At 8h a.m., l.m.t., at the cor. of secs. 4, 5, 32 & 33,  
 on the S. bdy. of the Tp., recently reestablished & described by me in Book 7  
 I set off  $7^{\circ}31\frac{1}{2}'$  S. on the decl. arc, and  $35^{\circ}46'$  N. on  
 the lat. arc, and determine a meridian with the solar.  
 Thence I run,  
 N.  $0^{\circ}3'$  W., bet. secs. 32 & 33.  
 Over level, open valley.  
 18.00 Drain, middle of valley, course NW.  
 21.60 Road, Gold Basin & Greegs Ferry to Hackberry, 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 32 in W., and  
 S 33 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. 28, 29, 32 & 33, marked on  
 brass cap, T 28 N R 17 W, in N. half,  
 S 29 in NW.,  
 S 28 in NE.,  
 S 33 in SE., and  
 S 32 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 rate, dry, loose, sandy.  
 Sparse sage brush, cacti, bunch grass.

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East, on a random line, bet. secs. 28 & 33.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 80.04 Intersect N. & S. line 7 lks. S. of cor. of  
 secs. 27, 28, 33 & 34, ~~subsequently described~~ whence I run  
 S.  $89^{\circ}57'$  W., on a true line, bet. secs. 28 & 33.  
 Over open valley, spare greasewood, cacti.  
 19.00 Wash, 20 lks. wide, course SW.  
 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 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.  
 80.04 To cor. of secs. 28, 29, 32 & 33 hereinbefore described  
 Land, level, gently undulating. Soil, 3rd rate, sandy.  
 Sparse sage brush, greasewood, cacti, native grass.

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N.  $0^{\circ}3'$  W., bet. secs. 28 & 29.  
 Over gently rolling valley.  
 30.00 Enter dense large joshua cacti, 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 29 in W., and  
 S 28 in E. half;  
 dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and  
 raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high W. of cor.  
 63.35 Wash, 20 lks. wide, course WSW.  
 80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in  
 the ground for cor. of secs. 20, 21, 28 & 29, marked on  
 brass cap, T 28 N R 17 W, in N. half,  
 S 20 in NW.,  
 S 21 in NE.,  
 S 28 in SE., and  
 S 29 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, gently rolling.  
 Soil, 3rd rate, sandy, gravelly, loose, dry.  
 Sage brush, greasewood, cacti, fair grass.

## Chains.

- N.  $89^{\circ}57'$  E., on a random line, bet. secs. 21 & 28.
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 80.02 Intersect N. & S. line 9 lks. N. of cor. of  
secs. 21, 22, 27 & 28, ~~hereinbefore~~ described, whence I run  
N.  $89^{\circ}59'$  W., on a true line, bet. secs. 21 & 28.  
Over gently rolling land, through dense cacti and  
greasewood.
- 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.
- 57.00 Wash, 20 lks. wide, course SW.
- 80.02 To cor. of secs. 20, 21, 28 & 29. ~~hereinbefore~~ described  
Land, rolling.  
Soil, 3rd rate, sandy, gravelly, loose, dry.  
Greasewood, large cacti, sage brush, fair grass.
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- N.  $0^{\circ}3'$  W., bet. secs. 20 & 21.  
Over gently 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 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.  
At this cor., at noon, I set off  $7\sqrt{28\frac{1}{2}}$  S. on the decl.  
arc, and observe the sun on the meridian.  
The resulting lat. is  $35\sqrt{48}'$  N.
- 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 28 N R 17 W, in N. half,  
S 17 in NW.,  
S 16 in NE.,  
S 21 in SE., and  
S 20 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.  
Cacti, greasewood, sage brush, fair grass.
- 
- S.  $89^{\circ}59'$  E., on a random line, bet. secs. 16 & 21.
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 80.04 Intersect N. & S. line 5 lks. S. of cor. of  
secs. 15, 16, 21 & 22, ~~hereinbefore~~ described, whence I run  
S.  $89^{\circ}59'$  W., on a true line, bet. secs. 16 & 21.  
Over nearly level, valley, through dense cacti.
- 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 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.
- 80.04 To cor. of secs. 16, 17, 20 & 21. ~~hereinbefore~~ described  
Land, level, gently undulating.  
Soil, 3rd rate, sandy, coarse gravelly, dry.  
Cacti, greasewood, sage brush, fair grass.

Chains	N. $0^{\circ} 3'$ W., bet. secs. 16 & 17. Over gently rolling land, through dense cacti.
13.00	Wash, 20 lks. wide, course WSW.
16.83	Road, brs. WNW. & 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 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.
75.00	Wash, 20 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. 8, 9, 16 & 17, marked on brass cap, T 28 N R 17 W in N. half, S 8 in NW., S 9 in NE., S 16 in SE., and S 17 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, coarse. Cacti, greasewood, sage brush, fair grass.
40.00	N. $89^{\circ} 59'$ E., on a random line, bet. secs. 9 & 16. Set temp. $\frac{1}{4}$ sec. cor.
80.02	Intersect N. & S. line 9 lks. S. of cor. of secs. 9, 10, 15 & 16, <del>hereinbefore</del> described, whence I run S. $89^{\circ} 55'$ W., on a true line, bet. secs. 9 & 16. Over gently rolling land, through dense cacti.
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 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.
73.15	Wash, 20 lks. wide, course SW.
80.02	To cor. of secs. 8, 9, 16 & 17, <del>hereinbefore</del> described. Land, rolling. Soil, 3rd rate, sandy, loose, coarse. Cacti, sage brush, greasewood, fair grass. March 1, 1912.
	March 2, 1912. At 8h a.m., l.m.t., at the cor. of secs. 8, 9, 16 & 17, <del>hereinbefore</del> described, I set off $7^{\circ} 8\frac{1}{2}'$ S. on the decl. arc, and $35^{\circ} 50'$ N. on the lat. arc, and determine a meridian with the solar. Thence I run, N. $0^{\circ} 3'$ W., bet. secs. 8 & 9. Over gently rolling land.
25.00	Wash, 30 lks. wide, course WSW.
40.00	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 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.
73.50	Road, brs. SW. & NE.
75.05	Pipe line, Spring to Gold Basin, brs. SW. & NE.
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 28 N R 17 W, in N. half, S 5 in NW., S 4 in NE., S 9 in SE., and S 8 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, gravelly, coarse, loose, dry. Cacti, greasewood, fair grass.

Chains.

N. 89°55' E., on a random line, bet. secs. 4 & 9.  
 40.00 Set temp. 1/4 sec. cor.  
 79.98 Intersect N. & S. line 3 lks. N. of cor. of secs. 3, 4, 9 & 10, ~~hereinafter described~~, whence I run  
 S. 89°56' W., on a true line, bet. secs. 4 & 9.  
 Over gently rolling land, desc. slightly.  
 14.00 Wash, 30 lks. wide, course SW.  
 39.99 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 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 1/2 ft. base, 1 1/2 ft. high W. of cor.  
 68.10 Road, Spring to Gold Basin, hrs. WSW. & ENE.  
 72.00 Pipe line, Spring to Gold Basin, hrs. WSW. & ENE.  
 79.98 To cor. of secs. 4, 5, 8 & 9, ~~hereinafter described~~.  
 Land, rolling.  
 Soil, 3rd rate, gravelly, coarse, sandy, loose, dry.  
 Sage brush, greasewood, cacti, fair grass.

N. 0° 3' W., on a random line, bet. secs. 4 & 5.  
 40.00 Set temp. 1/4 sec. cor.  
 80.07 Intersect N. Bdy. of Tp. 5 lks. W. of cor. of <sup>in Book 6</sup>  
 secs. 4, 5, 32 & 33, recently established & described by me, whence I run,  
 S. 0° 1' E., on a true line, bet. secs. 4 & 5.  
 Over rolling, broken land, desc. grad.  
 40.07 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 5 in W., and  
 S 4 in E. half;  
 dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and  
 raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high W. of cor.  
 80.07 To cor. of secs. 4, 5, 8 & 9, ~~hereinafter described~~  
 Land, rolling, broken.  
 Soil, 3rd rate, gravelly, coarse.  
 Greasewood, sage brush, cacti, sparse grass.

From the cor. of secs. 5, 6, 31 & 32 on the S. bdy of the Tp, recently re-established -  
 N. 0° 3' W., bet. secs. 31 & 32. - & described by me, <sup>in Book 7</sup>, I run,  
 Over nearly level valley, through 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 31 in W., and  
 S 32 in E. half;  
 dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and  
 raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high W. of cor.  
 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 28 N R 17 W, in N. half,  
 S 30 in NW.,  
 S 29 in NE.,  
 S 32 in SE., and  
 S 31 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, gently undulating.  
 Soil, 3rd rate, sandy, gravelly, loose.  
 Cacti, sage brush, greasewood, sparse grass.  
 At this cor., at noon, I set off 7° 05 1/2' S. on the decl.  
 arc, and observe the sun on the meridian.  
 The resulting lat. is 35° 47' N.

Chains.

East, on a random line, bet. secs. 29 & 32.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 79.92 Intersect N. & S. line 5 lks. N. of cor. of  
 secs. 28, 29, 32 & 33, ~~hereinbefore described~~, whence I run  
 N.  $89^{\circ}58'$  W., ~~on a true line~~, bet. secs. 29 & 32.  
 Over nearly level land, through scattering cacti.  
 39.96 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
 the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  
 $\frac{1}{4}$  S 29 in N., and  
 S 32 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.  
 48.00 Road, brs. NW. & SE.  
 53.00 Centre of drainage small wash, 5 lks. wide, course NW.  
 79.92 To cor. of secs. 29, 30, 31 & 32, ~~hereinbefore described~~.  
 Land, level, gently undulating.  
 Soil, 3rd rate, sandy, loose, gravelly.  
 Sparse sage brush, cacti, greasewood.

West, on a random line, bet. secs. 30 & 31.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 78.73 Intersect West bdy. of Tp. 5 lks. N. of cor. of <sup>in Book 6</sup>  
 secs. 25, 30, 31 & 36, recently established & described by me, whence I run,  
 N.  $89^{\circ}58'$  E., on a true line, bet. secs. 30 & 31.  
 Over level land, through dense cacti.  
 38.73 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;  
 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.  
 60.10 Road, brs. NNE. & SSW.  
 78.73 To cor. of secs. 29, 30, 31 & 32, ~~hereinbefore described~~.  
 Land, level, gently undulating.  
 Soil, 3rd rate, sandy, loose, coarse.  
 Sparse cacti, greasewood, sage brush, native grass.

N.  $0^{\circ}3'$  W., bet. secs. 29 & 30.  
 Over level valley, through scattering yucca & cacti.  
 30.00 Centre of drainage, small wash, 5 lks. wide, course NW.  
 35.00 Road, brs. NW. & SE., Gold Basin to Hackberry.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
 the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  
 $\frac{1}{4}$  S 30 in W., and  
 S 29 in E. half;  
 dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and  
 raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high W. of cor.  
 59.70 Road, brs. NE. & SW.  
 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 28 N R 17 W, in N. half,  
 S 19 in NW.,  
 S 20 in NE.,  
 S 29 in SE., and  
 S 30 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, level.  
 Soil, 3rd rate, sandy, coarse, loose.  
 Sage brush, cacti, greasewood, sparse grass.



Chains.

S 89° 58' E. on a random line, bet. secs. 20 & 29.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 79.96 Intersect N. & S. line at cor. of secs. 20, 21, 28 & 29, ~~hereinbefore described~~, whence I run  
 N 89° 58' W. on a true line, bet. secs. 20 & 29.  
 Over nearly level valley, through dense yucca, or joshua cacti.  
 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 20 in N., and S 29 ins S. half; dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high N. of cor.  
 75.10 Road, brs. N. & S.  
 79.96 To cor. of secs. 19, 20, 29 & 30, ~~hereinbefore described~~.  
 Land, level, gently undulating.  
 Soil, 3rd rate, sandy, coarse, dry, loose.  
 Sage brush, cacti, greasewood, yucca, fair grass.

S. 89° 58' W., on a random line, bet. secs. 19 & 30.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 78.65 Intersect West bdy. of Tp. 2 $\frac{1}{2}$  lks. S. of cor. of <sup>in Book 6</sup> secs. 19, 24, 25 & 30, ~~recently established & described by me~~ (whence-  
 N. 89° 59' E., on a true line, bet. secs. 19 & 30. I run,  
 Over level valley, through scattering cacti.  
 38.65 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 19 in N., and S 30 in S. half; dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high N. of cor.  
 43.65 Centre of drainage, wash, 5 lks. wide, course NW.  
 57.00 Road, brs. NW. & SE.  
 78.65 To cor. of secs. 19, 20, 29 & 30, ~~hereinbefore described~~.  
 Land, level, gently undulating.  
 Soil, 3rd rate, sandy, coarse, loose.  
 Cacti, sage brush, fair grass. March 2, 1912.

March 3, 1912. ~~hereinbefore described~~,  
 At 8h a.m., l.m.t., at the cor. of secs. 19, 20, 29 & 30  
 I set off 6° 45 $\frac{1}{2}$ ' S. on the decl. arc, and 35° 48' N. on the lat. arc, and determine a meridian with the solar.  
 Thence I run,  
 N. 0° 3' W., bet. secs. 19 & 20.  
 Over level land, 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 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.  
 80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for cor. of secs. 17, 18, 19 & 20, marked on brass cap, T 23 N R 17 W, in N. half,  
 S 18 in NW.,  
 S 17 in NE.,  
 S 20 in SE., and  
 S 19 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, gently undulating.  
 Soil, 3rd rate, sandy, loose, dry, coarse.  
 Sage brush, cacti, greasewood, sparse grass.

Chains	589°58'E. on a random line, bet. secs. 17 & 20.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.98	Intersect N. & S. line 2 $\frac{1}{4}$ lks. S. of cor. of secs. 16, 17, 20 & 21, <del>hereinafter described</del> , whence <del>run</del> N. 89°59' W., on a true line, bet. secs. 17 & 20. Over level land, through dense cacti & greasewood.
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 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 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high N. of cor.
45.50	Wash, 10 lks. wide, course SW.
50.30	Road, brs. NE. & SW.
79.98	To cor. of secs. 17, 18, 19 & 20, <del>hereinafter described</del> . Land, level, gently undulating. Soil, 3rd rate, coarse sandy loam. Cacti, greasewood, yucca, fair grass.
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	S. 89°59' W., on a random line, bet. secs. 18 & 19.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
78.57	Intersect West bdy. of Tp. 7 lks. S. of cor. of secs. 13, 18, 19 & 24, <del>recently established &amp; described by me</del> <sup>in Book 6,</sup> whence S. 89°58' E., on a true line, bet. secs. 18 & 19. Over level land, through dense cactus.
7.00	Centre of drainage, wash, 10 lks. wide, course NNW.
15.00	Road, brs. NNW. & SSE.
38.57	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 18 in N., and S 19 in S. half; 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.
78.57	To cor. of secs. 17, 18, 19 & 20, <del>hereinafter described</del> . Land, level, gently undulating. Soil, 3rd rate, coarse sandy, loose, dry. Cacti, yucca, sage brush, fair grass.
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	N. 0° 3' W., bet. secs. 17 & 18. Over gently undulating valley.
33.90	Road, Clay Spring to Gold Basin, brs. WNW. & 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 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 28 N R 17 W, in N. half, S 7 in NW., S 8 in NE., S 17 in SE., and S 18 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, gently undulating. Soil, 3rd rate, sandy, loose, coarse, gravelly. Sage brush, cacti, greasewood, fair grass.

Chains.

S. 89°59' E., on a random line, bet. secs. 8 & 17.  
 40.00 Set temp. 1/4 sec. cor.  
 79.96 Intersect N. & S. line 5 lks. S. of cor. of  
 secs. 8, 9, 16 & 17, ~~hereinbefore~~ described, whence I run  
 S. 89°59' W., on a true line, bet. secs. 8 & 17.  
 Over gently rolling land, desc. gently.  
 39.98 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 8 in N., and  
 1/4 S 17 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.  
 79.96 To cor. of secs. 7, 8, 17 & 18, ~~hereinbefore~~ described.  
 Land, gently rolling.  
 Soil, 3rd rate, sandy, loose, dry.  
 Cacti, greasewood, sage brush, good grass.

N. 89°58' W., on a random line, bet. secs. 7 & 18.  
 40.00 Set temp. 1/4 sec. cor.  
 78.51 Intersect West bdy. of Tp. 5 lks. N. of cor. of  
 secs. 7, 12, 13 & 18, ~~recently estab. & described by me~~ whence I run,  
 East, on a true line, bet. secs. 7 & 18. <sup>in Book 6</sup>  
 Over gently undulating land.  
 17.50 Road, brs. SW. & NE.  
 21.00 Pipe line, brs. WSW. & ENE.  
 38.51 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 7 in N., and  
 1/4 S 18 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.  
 61.00 Road, brs. SW. & NE.  
 74.00 Wash, 50 lks. wide, course SW.  
 78.51 To cor. of secs. 7, 8, 17 & 18, ~~hereinbefore~~ described.  
 Land, level, gently rolling.  
 Soil, 3rd rate, sandy, loose, dry.  
 Sage brush, cacti, greasewood, good grass.  
 At this cor., at noon, I set off 6742 1/2' S. on the decl.  
 arc, and observe the sun on the meridian.  
 The resulting lat. is 35°50' N.

N. 0° 3' W., bet. secs. 7 & 8.  
 Over gently rolling land.  
 5.00 Wash, 35 lks. wide, course SW.  
 9.00 Road, brs. NE. & SW.  
 31.00 Pipe line, brs. WSW. & ENE.  
 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 7 in W., and  
 1/4 S 8 in E. half;  
 dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and  
 raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high W. of cor.  
 60.25 Road, brs. SSW. & NNE.  
 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 28 N R 17 W, in N. half,  
 S 6 in NW.,  
 S 5 in NE.,  
 S 8 in SE., and  
 S 7 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, gently rolling.  
 Soil, 3rd rate, sandy, gravelly, loose, coarse.  
 Sage brush, cacti, greasewood, good grass.

Chains.

40.00 N. 89°59' E., on a random line, bet. secs. 5 & 8.  
Set temp. 1/4 sec. cor.

80.02 Intersect N. & S. line 7 lks. N. of cor. of  
secs. 4, 5, 8 & 9, ~~hereinbefore described~~, whence I run  
N 89°58' W, on a true line, bet. secs. 5 & 8.  
Over rolling land.

40.01 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 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 1/2 ft. base, 1 1/2 ft. high N. of cor.

63.50 Road, brs. SSW. & NNE.

80.02 To cor. of secs. 5, 6, 7 & 8, ~~hereinbefore described~~.  
Land, rolling.  
Soil, 3rd rate, sandy, gravelly, loose, dry.  
Cacti, greasewood, sage brush, fair grass.

West, on a random line, bet. secs. 6 & 7.

40.00 Set temp. 1/4 sec. cor.

78.44 Intersect West bdy. of Tp. 2 1/2 lks. N. of cor. of  
secs. 1, 6, 7 & 12, ~~recently estab. & described by me~~ <sup>in Book 6,</sup> whence I run,  
N. 89°59' E., on a true line, bet. secs. 6 & 7.  
Over rolling land, through dense cacti & greasewood.

38.44 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 6 in N., and  
S 7 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.

78.44 To cor. of secs. 5, 6, 7 & 8, ~~hereinbefore described~~.  
Land, rolling. Soil, 3rd rate, sandy, loose, dry, coarse.  
Greasewood, cacti sage brush, good grass.

N. 0° 3' W., on a random line, bet. secs. 5 & 6.

40.00 Set temp. 1/4 sec. cor.

80.10 Intersect North bdy. of Tp. 2 1/2 lks. W. of cor. of  
secs. 5, 6, 31 & 32, ~~recently estab. & described by me~~ <sup>in Book 6,</sup> whence I run,  
S. 0° 2' E., on a true line, bet. secs. 5 & 6.  
Over mountainous land, desc. steep SE. slope of spur.

11.00 Gulch, 50 lks. wide, 150 ft. deep, course SSW., asc.

25.00 Top of spur from butte, brs. SW. & NE.

32.00 Desc. S. slope.

40.10 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 6 in W., and  
S 5 in E. half;  
raise a mound of stone 2 ft. base, 1 1/2 ft. high W. of cor.

58.00 Foot of slope, brs. W. & E., enter valley.

59.50 Wash, 50 lks. wide, course WSW.

80.10 To cor. of secs. 5, 6, 7 & 8, ~~hereinbefore described~~.  
Land, rolling, mountainous.  
Soil, 3rd rate, stony, gravelly, dry.  
Cacti, greasewood, fair grass.

-General Description.-

T. 28 N., R. 17 W. is extremely mountainous and rough  
in the Eastern, rolling or broken in the Northern, and  
smooth and level in the SW. portions.  
The soil in the valley is in general a loose, sandy loam  
but which would produce well, if watered.  
There is no timber or water in the Tp.  
A portion of the East half of the Tp. was omitted from  
the survey, as being so rough and mountainous as to be  
worthless for agricultural or grazing purposes.  
There are no settlers in the Tp.

March 3, 1912.

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

Subdivisions Group 13

**CERTIFICATE OF ASSISTANTS.**  
(same applies to Wright's portion of Joint party surveys, Books "Y" & "Z")

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  
 stated opposite our several signatures, in surveying all those parts or portions of

The Subdivisional Lines of T. 28 N.-R. 17 W.

T. 24 N.-R. 12 W. & T. 21 N.-R. 14 W.

under

Group No. 13, Arizona,

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 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.	
<i>Herbert Worcester</i>	Jan. 23, 1912.	Mch. 3, 1912.	Chainman.
<i>John H. Bates</i>	Jan. 23, 1912.	Feb. 9, 1912.	Chainman.
<i>Elmore Welch</i>	Jan. 23, 1912.	Feb. 9, 1912.	Moundman.
<i>Samuel Kennedy</i>	Jan. 23, 1912.	Mch. 3, 1912.	Flagman.
<i>Herman Meyer</i>	Feb. 1, 1912.	Mch. 3, 1912.	Axeman.
<i>Chas H. Whitfield</i>	Feb. 11, 1912.	Mch. 3, 1912.	Moundman.
<i>Elmore Welch</i>	Feb. 10, 1912.	Mch. 3, 1912.	Chainman.

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

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

FINAL OATH OF UNITED STATES SURVEYOR.  
(same applies to Wright's portion of Joint party surveys, Books "Y" & "Z")

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, 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, surveyed all those parts or portions of The Subdivisional Lines of T. 28 N.-R. 17 W. and T. 24 N.-R. 12 W. and T. 21 N.-R. 14 W. under Group No. 13, Arizona, 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 S. Lyall*  
SURVEYOR-GENERAL OF ARIZONA

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 28 North, Range 17 West  
Gila & Salt River Base & Meridian  
Arizona

executed by Jesse B. Wright, U. S. Surveyor  
under his special instructions, 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 S. Lyall*  
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.