

Book S.  
2311

BOOK 2311

24  
FEB. 12 1912

# FIELD NOTES

2311

OF THE SURVEY OF THE

Division Lines of T<sub>33</sub> N. R<sub>15</sub> W

2311

Of the *G. & O. R.* Meridian,

In the State of *Territory of Arizona*

EXECUTED BY

*W. O. Oscar*

In the capacity of U. S. <sup>*Assistant*</sup> Surveyor, under instructions dated *Sept. 16*, 1910,

issued by the United States Surveyor General to govern surveys included in  
Group No. *9*, which were approved by the Commissioner of the General Land

Office, *Sept. 28*, 1910, pursuant to authority contained in the Act of

Congress dated *July 27*, 191*1* <sup>*1899*</sup>

2311

Survey commenced *April 20*, 191*1*

Survey completed *April 29*, 191*1*

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Chains.

Survey commenced April 20, 1911, and executed with a Buff & Burger engineer's transit #672, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to 30" of arc. I examine the adjustments of the transit and solar apparatus, and find them to be correct; then, to test the solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p.m. hours, with a meridian determined by observations on Polaris, I proceed as follows:

At the cor. to secs. 1, 2, 35 and 36 on the S. bdy., I set off 11°20' N. on the decl. arc; and at 11h.59m. a.m., l.m.t., observe the sun on the meridian; the resulting lat. is 35°20' N.

At 3h.0m. p.m., l.m.t., I set off 35°20' N. on the lat. arc; 11°23' N. on the decl. arc, and determine a meridian with the solar, and mark a point in the line thus determined on a stake set in the ground about 5 chs. N. of my station.

April 20, 1911.

April 21, 1911: At 5h.37m. a.m., l.m.t., I observe the Polaris at eastern elongation, and mark a point in the line thus determined, in accordance with the Manual of Instructions, on a stake set in the ground about 5 chs. N. of my station.

At 7:30 a.m., l.m.t., I lay off the azimuth of Polaris 1°26' to the W., and mark the meridian thus determined, on the stake set in the ground this morning; this point falls 0.5 in. E. of the point determined yesterday by the solar.

At 8:00 a.m., l.m.t., I set off 35°20' N. on the lat. arc; 11°38' N. on the decl. arc, and determine a meridian with the solar; this point falls on the point determined by the Polaris observation; I therefore conclude that the adjustments of my instrument are satisfactory.

The magnetic bearing of the meridian is 14°45' W.; the angle thus determined gives a magnetic decl. 14°45' E.

Thence I run, N. 0°1' W., bet. secs. 35 and 36.

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 35 in W., and S 36 in E. half; dig pits 18x18x12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

41.00 Wash, 100 lks. wide, course N. 60° W.

46.00 Wash, 40 lks. wide, course N. 70° W.

65.00 Wash, 10 lks. wide, course NW  $\frac{1}{4}$

80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. to secs. 25, 26, 35 and 36, marked on brass cap,

T 23 N, R 15 W in N. half,

S 26 in NW.,

S 25 in NE.,

S 36 in SE., and

S 35 in SW. quadrant; dig pits 18x18x12 ins. in each sec.  $3\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft. base 2 ft high, W. of cor.

Land, rolling.

Soil, sandy loam; fair grazing.

40.00 N. 89°59' E., on a random line bet. secs. 25 and 36. Set temp.  $\frac{1}{4}$  sec. cor.

## 2. Subdivision of Township 23 North, Range 15 West.

Chains.

- 80.12 Intersect E.bdy. of T.5 lks. N.of cor.to secs. 25,30,31 and 36. Thence I run, N.89°59'W. on a true line, bet. secs.25 and 36. Over rolling land; descend.
- 28.10 Wash, 25 lks.wide, course N.60°W.
- 40.06 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; dig pits 18x18x12 ins.E.and W.of post, 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high,N.of cor.
- 80.12 The cor.to secs. 25,26, 35 and 36. Land, gently rolling; soil, sandy loam, light; fair grazing.

- N.0°1'W., bet. secs.25 and 26. Over rolling land.
- 3.00 Wash 30 lks.wide, course W.
- 33.00 Wash,30 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 26 in W., and S 25 in E.half; dig pits 18x18x12 ins.N.and S.of post 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high,W.of cor.
- 44.65 Wash, 20 lks.wide, course W.
- 47.00 Wash,30 lks.wide, course W.
- 66.00 Wash 50 lks.wide, course W.
- 80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor.to secs. 23,24,25 and 26, marked on brass cap,  
T 23 N, R 15 W in N.half,  
S 23 in NW.,  
S 24 in NE.,  
S 25 in SE., and  
S 26 in SW. quadrant; 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, light sandy loam; fair grazing.

- At this cor. I set off 11°41'N. on the decl.arc; and at 11h.59m.a.m.,1.m.t., observe the sun on the meridian; the resulting lat. is 35° 22'N.  
S.89° 59'E., on a random line, bet. secs.24 and 25.
- 40.10 Set temp.  $\frac{1}{4}$  sec.cor.
- 80.20 Intersect E.bdy. of T.2 lks.S.of cor. of secs. 19,24,25 and 30; thence I run, W. on a true line, bet. secs.24 and 25. Descend along meanderings of wash.
- 20.00 Leave wash,10 lks.wide, course N.60°W.
- 40.10 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 24 in N., and S 25 in S.half; and raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$  ft. high,N.of cor. Pits impracticable.
- 41.00 Wash,,15 lka.wide, course NW.
- 60.00 Wash, 20 lks.wide, course N.70°W.
- 74.85 Wash,10 lks.wide, course N.60°W.
- 80.20 The cor.to secs.23,24,25 and 26. Land, rolling. Soil, light sandy loam, mixed with gravel. Fair grazing.

- N.0°1'W., bet. secs.23 and 24. Over rolling land.
- 4.00 Wash, 20 lks.wide, course N.60°W.
- 17.35 Wash 15 lks.wide, course W.

Chains.

27.00 Wash, 200 lks. wide, course W.  
 39.00 Wash, 50 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 23 in W., and S 24 in E. half; and raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
 64.38 Wire fence brs. E. and W.  
 80.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. to secs. 13, 14, 23 and 24, marked on brass cap,  
 T 23 N, R 15 W in N. half;  
 S 14 in NW.,  
 S 13 in NE.,  
 S 24 in SE., and  
 S 23 in SW. quadrant, and raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
 Land, rolling.  
 Soil, light, sandy loam; fair grazing.

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 East, on a random line, bet. secs. 13 and 24.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 80.12 Intersect E. bdy. of T. 3 lks. N. of cor. to secs. 13, 18, 19 and 24. Thence I run, N. 89° 59' W., on a true line, bet. secs. 13 and 24. Over broken, rolling land, descend gradually, through scattering palo negro.  
 27.83 Wire fence brs. N. and S.  
 40.06 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 S 24 in S. half; and raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor. Pits impracticable.  
 58.00 Small house and corral, with water trough and pipe line, brs. N. 14 chs. dist.  
 80.12 The cor. to secs. 13, 14, 23 and 24.  
 Land, rolling. Soil, sandy loam, mixed with gravel; timber, scattering palo negro; fair grazing.

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 N. 0° 1' W. bet. secs. 13 and 14.  
 Over rolling land.  
 26.20 Wash, 20 lks. wide, course N. 70° W.  
 29.61 Wire fence brs. E. and 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 18x18x12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
 42.10 Wash, 20 lks. wide, course N. 60° W.  
 50.75 Wash, 20 lks. wide, course NW.  
 62.35 Wash, 20 lks. wide, course NW.  
 69.40 Wash 20 lks. wide, course N. 70° W.  
 80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. to secs. 11, 12, 13 and 14, marked on brass cap,  
 T 23 N R 15 W in N. half,  
 S 11 in NW.,  
 S 12 in NE.,  
 S 13 in SE., and  
 S 14 in SW. quadrant; 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, sandy loam, with gravel; fair grazing.

April 21, 1911.

Chains.

April 22, 1911: At 8:00 a.m., l.m.t., I set off 35°24' N. on the lat.arc; 11°58'30" N. on the decl.arc, and determine a meridian with the solar at the cor.of secs. 11,12, 13 and 14.

Thence I run,  
S.89°59'E., on a random line; bet. secs.12 and 13.  
40.00 Set temp. ¼ sec.cor.  
80.08 Intersect E.bdy.of T.7 lks.S.of cor.to secs.7,12,13 and 18.

Thence I run,  
S.89°58'W., on a true line, bet. secs.12 and 13.  
40.04 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ¼ sec.cor., marked on brass cap, ¼ S 12 in N., and S 13 in S.half; dig pits 18x18x12 ins.E.and W.of post 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high,N.of cor.  
73.00 Wash 40 lks.wide. course NW.  
80.08 To cor.of secs.11,12,13 and 14.  
Land, rolling.  
Soil, sandy loam, mixed with gravel; fair grazing.

N.0°1'W., bet. secs. 11 and 12.  
Over rolling land; descend.  
5.80 Wash, 40 lks.wide, course NW.  
23.40 Wash, 30 lks.wide, course NW.  
32.60 Wash, 40 lks.wide, course NW.  
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 11 in W., and S 12 in E.half; dig pits 18x18x12 ins., N.and S. of post 3 ft. dist, and raise a mound of earth 3½ ft. base, 1½ ft. high,W.of cor.  
66.35 Wash, 40 lks.wide, course NW.  
78.40 Wash, 40 lks.wide, course NW.  
80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor.to secs. 1,2,11 and 12, marked on brass cap,  
T 23 N, R 15 W in N.half;  
S 2 in NW.,  
S 1 in NE.,  
S 12 in SE., and  
S 11 in SW. quadrant; 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, sandy loam, mixed with gravel.  
Fair grazing.

N.89°58'E. on a random line bet. secs. 1 and 12.  
40.00 Set temp. ¼ sec.cor.  
80.04 Intersect E. bdy. of T.14 lks.S.of cor. to secs.1,6,7 and 12.  
Thence I run,  
S.89°52'W., on a true line; bet. secs.1 and 12.  
Over rolling land; descend.  
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 1 in N., and S 12 in S.half; dig pits 18x18x12 ins. E.and W.of post 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high,N.of cor.  
41.00 Wash, 50 lks.wide, course NW.  
66.97 Wash, 20 lks.wide, course NW.  
72.38 Wash, 20 lks.wide, course NW.  
80.04 The cor.to secs. 1,2,11 and 12.

Chains.

Land, rolling.  
Soil, sandy loam; fair grazing.

N.0° 1'E., on a random line, bet. secs.1 and 2.  
40.00 Set temp.  $\frac{1}{4}$  sec.cor.  
80.10 Intersect N. bdy.of Township at corner of secs. 1,2,35 and 36.  
Thence I run,  
S.0° 1'E., on a true line, bet. secs.1 and 2.  
Over gently rolling land; ascend.  
40.10 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 2 in W., and S 1 in E.half; dig pits 18x18x12 ins. N.and S.of post 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high,W.of cor.  
46.25 Wash, 20 lks.wide, course NW.  
68.00 Wash,30 lks.wide, course NW.  
72.50 Wash,30 lks.wide, course NW.  
75.26 Road, brs. NE.and SW.  
76.96 Intersect center line of Santa Fe R.R., bears N.41°57'E. and S.41°57'W.  
80.10 The corner of secs. 1,2,11 and 12.  
Land, rolling.  
Soil, sandy loam, mixed with gravel; fair grazing.  
April 22, 1911.

April 24, 1911: At 8:00 a.m.,l.m.t., I set off 35°20'N. on the lat.arc; 12°39'N. on the decl.arc, and determine a meridian with the solar at the corner of secs. 2,3, 34 and 35 on the south boundary.  
Thence I run,  
N.0° 1'W., bet. secs.34 and 35.  
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 34 in W., and S 35 in E.half; dig pits 18x18x12 ins.N.and S.of post 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high,W.of cor.  
52.75 Wash, 40 lks.wide, course NW.  
60.85 Wash, 30 lks.wide, course W.  
80.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor.to secs.26,27,34 and 35, marked on brass cap,  
T 23 N, R 15 W in N.half,  
S 27 in NW.,  
S 26 in NE.,  
S 35 in SE., and  
S 34 in SW. quadrants; dig pits 18x18x12 ins.in each sec. 5 $\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft.base, 2 ft. high,W.of cor.  
Land, rolling.  
Soil, sandy loam; fair grazing.

N.89°59'E., on a random line, bet. secs.26 and 35.  
40.00 Set temp.  $\frac{1}{4}$  sec.cor.  
80.14 Intersect N.and S. line 5 lks.N.of cor.to secs.25,26,35 and 36.  
Thence I run,

Chains.	
	N.89°59'W., on a true line, bet. secs.26 and 35. Over rolling land, descend.
4.50	Wash, 20 lks.wide, course NW.
40.07	Wash, 15 lks.wide, course SW., point for $\frac{1}{4}$ sec.cor.comes in wash.
41.07	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 $\frac{1}{4}$ in E.half, S 26 in NW., and S 35 in SW. quadrant; dig pits 18x18x12 ins. E.and W. of post 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, 15 lks.wide, course N.60°W.
62.00	Wash, 20 lks.wide, course N.50°W.
70.50	Wash, 10 lks.wide, course N.75°W.
80.14	The cor. to secs.26, 27, 34 and 35. Land, rolling. Soil, sandy loam; fair grazing.
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	N.0° 1'W., bet. secs.26 and 27. Over rolling land.
4.00	Wash, 10 lks.wide, course N.75°W.
12.10	Wash, 15 lks.wide, course N.50°W.
31.00	Wash, 15 lks.wide, course N.60°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 27 in W., and S 26 in E.half; dig pits 18x18x12 ins. N. and S. of post 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. to secs. 22, 23, 26 and 27, marked on brass cap, T'23 N, R 15 W in N.half; S 22 in NW., S 23 in NE., S 26 in SE., and S 27 in SW. quadrant, and raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, rolling. Soil, sandy loam mixed with gravel; fair grazing. April 24, 1911: I set off 12°41'30" N. on the decl. arc; and at 11h.58m. a.m., 1.m.t., observe the sun on the meridian; the resulting lat. is 35° 22' N.
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	S.89°59'E. on a random line, bet. secs.23 and 26.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
80.08	Intersect N. and S. line 3 lks. N. of cor. of secs. 23, 24, 25 and 26. Thence I run, N.89°58'W., on a true line, bet. secs.23 and 26. Over rolling land; descend.
14.75	Wash, 20 lks.wide, course N.60°W.
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 23 in N., and S 26 in S.half; dig pits 18x18x12 ins., E. and W. of post 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
51.00	Wash, 50 lks.wide, course N.60°W.
60.00	Enter wash 50 lks.wide, from SE. to W.; thence along meanderings of wash.
79.70	Leave wash, course N.70°W.
80.08	To cor. of secs.22, 23, 26 and 27.



## Subdivision of Township 23 North, Range 15 West.

7.

Chains.

Land, rolling.  
Soil, sandy loam, mixed with gravel; fair grazing.

N.0°1'W., bet. secs. 22 and 23.  
Over rolling land.

- 0.50 Wash, 50 lks.wide, course N.60°W.,  
7.25 Wash, 25 lks.wide, course N.70°W.  
21.45 Wash, 100 lks.wide, course N.65° W.  
24.65 Wash, 100 lks.wide, course W.  
38.75 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 22 in W., and  
S 23 in E.half; dig pits 18x18x12 ins. N.and S.of  
post 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft.  
base,  $1\frac{1}{2}$  ft. high,W.of cor.  
79.80 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in  
the ground for witness cor.to secs. 14,15,22 and 23,  
marked on brass cap,  
T 23 N, R 15 W in N.half;  
W C, N.of center,  
S 15 in NW.,  
S 14 in NE.,  
S 23 in SE., and  
S 22 in SW. quadrant; dig pits 18x18x12 ins.NW.,  
NE., SE., and SW. of post  $5\frac{1}{2}$  ft. dist., and raise a  
mound of earth 4 ft. base, 2 ft. high,W.of cor.  
Land, rolling.  
Soil, sandy loam; fair grazing.

From the true point for the cor. of secs. 14,15,22 and  
23, I run,

- S.89°58'E. on a random line, bet. secs.14 and 23.  
40.00 Set temp.  $\frac{1}{4}$  sec.cor.  
80.08 Intersect N.and S. line, 7 lks.S.of cor.to secs. 13,14,  
23 and 24.  
Thence I run  
S.89°59'W. on a true line bet. secs.14 and 23.  
Over rolling land; descend.  
14.83 Wash 30 lks.wide, course S.80°W.  
17.85 Wash,30 lks.wide, course SW.  
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.and W.of  
post 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft.  
base,  $1\frac{1}{2}$  ft. high,N.of cor.  
43.87 Wire fence brs. N.37°35'W.  
80.08 The true point for the cor. of secs.14,15,22 and 23, wash  
20 lks.wide, course N.70°W.  
Land, rolling.  
Soil, sandy loam, mixed with gravel,  
Fair grazing.

April 24, 1911.

April 25, 1911: At 8:00 a.m., 1 $\frac{1}{2}$ m.t., I set off 35°23'  
N. on the lat.arc; 12°58'N. on the decl.arc, and de-  
termine a meridian with the solar at the true point  
for the cor.of secs. 14,15,22 and 23.

Thence I run,  
N.0°1'W., bet. secs. 14 and 15.

## 8. Subdivisions of Township 23 North, Range 15 West.

Chains.

- Over rolling land; descend.
- 8.00 Wash, 20 lks. wide, course W.
- 32.00 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 15 in W., and S 14 in E. half; dig pits 18x18x12 ins. N. and S. of post 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, 20 lks. wide, course NW.
- 48.74 Intersect center line of Santa Fe R.R., which bears N.  $32^{\circ}20'E.$  and S.  $32^{\circ}20'W.$
- 50.52 Road bears NE. and SW.
- 80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. to secs. 10, 11, 14 and 15, marked on brass cap,  
T23 N R 15 W in N. half,  
S 10 in NW.,  
S 11 in NE.,  
S 14 in SE., and  
S 15 in SW. quadrant; 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, sandy loam; fair grazing.
- 
- N.  $89^{\circ}59'E.$ , on a random line, bet. secs. 11 and 14.
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 80.10 Intersect N. and S. line 5 lks. N. of cor. of secs. 11, 12, 13 and 14.
- Thence I run,  
N.  $89^{\circ}59'W.$ , on a true line, bet. secs. 11 and 14.
- Over rolling land; descend.
- 21.50 Wash, 20 lks. wide, course NW.
- 32.00 Wash, 20 lks. wide, course NW.
- 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 11 in N., and S 14 in S. half; dig pits 18x18x12 ins. E. and W. of post 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.
- 60.24 Intersect center line Santa Fe R.R., which bears N.  $32^{\circ}20'E.$  and S.  $32^{\circ}20'W.$
- 61.31 Road, parallel to R.R.
- 74.00 Wash, 30 lks. wide, course NW.
- 80.10 The cor. of secs. 10, 11, 14 and 15.
- Land, rolling.  
Soil, sandy loam; fair grazing.
- 
- N.  $0^{\circ}1'W.$ , bet. secs. 10 and 11.
- Over rolling land.
- 2.17 Wash, 20 lks. wide, course W.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 10 in W., and S 11 in E. half; dig pits 18x18x12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.
- 47.00 Wash, 50 lks. wide, course W.
- 53.83 Old road, brs. N.  $60^{\circ}W.$  and S.  $60^{\circ}E.$
- 57.83 Wash, 40 lks. wide, course N.  $50^{\circ}W.$
- 66.59 Wash, 30 lks. wide, course W.
- 80.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins.

Subdivision of Township 23 North, Range 15 West. 9.  
Chains.

in the ground for cor. of secs. 2, 3, 10, and 11, marked on brass cap,  
 T 23 N, R 15 W in N.,  
 S 3 in NW.,  
 S 2 in NE.,  
 S 11 in SE., and  
 S 10 in SW. quadrant; 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, sandy loam, mixed with gravel; fair grazing.  
 April 25, 1911: I set off 13°01' N. on the decl. arc; and at 11h.58m. a.m., l.m.t., observe the sun on the meridian; the resulting lat. is 35° 24' N.

S.89°59'E., on a random line, bet. secs. 2 and 11.  
 40.00 Set temp. ¼ sec. cor.  
 80.04 Intersect N. and S. line 3 lks. N. of cor. of secs. 1, 2, 11 and 12.  
 Thence I run,  
 N.89°58'W., on a true line, bet. secs. 2 and 11.  
 Over rolling land, descend.  
 1.52 Wash, 20 lks. wide, course NW.  
 2.87 Intersect center line of Santa Fe R.R., 140 lks. S. 41°57'W. of bridge #C497.  
 4.30 Road parallel to R.R.  
 12.40 Wash, 20 lks. wide, course NW.  
 23.85 Wash, 20 lks. wide, course NW.  
 34.00 Wash 20 lks. wide, course NW.  
 38.30 Wash, 30 lks. wide, course NW.  
 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 2 in N., and S 11 in S. half; dig pits 18x18x12 ins. E. and W. of post 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, N. of cor.  
 48.00 Wash, 40 lks. wide, course NW.  
 58.97 Dim road, brs. NE. and SW.  
 80.04 The cor. of secs. 2, 3, 10 and 11.  
 Land, rolling.  
 Soil, sandy loam mixed with gravel.  
 Fair grazing.

N.0°1' W., on a random line, bet. secs. 2 and 3.  
 40.00 Set temp. ¼ sec. cor.  
 80.12 Intersect N. bdy. of township 2 lks. W. of cor. of secs. 2, 3, 34 and 35.  
 Thence I run,  
 South, on a true line, bet. secs. 2 and 3.  
 Over rolling land, ascend.  
 00.20 Wash, 30 lks. wide, course N.60°W.  
 13.62 Wash, 80 lks. wide, course W.  
 40.12 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. and S. of post 3 ft. dist., and raise a mound of earth 3½ ft. base. 1½ ft. high, W. of cor.  
 58.40 Road, brs. NE. and SW.  
 72.00 Wash, 80 lks. wide, course W.  
 76.65 Wash, 40 lks. wide, course W.  
 80.12 The cor. of secs. 2, 3, 10 and 11.  
 Land, rolling.  
 Soil, sandy loam, mixed with gravel; fair grazing.  
 April 25, 1911.

Chains

April 26, 1911: At 8:00 a.m., l.m.t., I set off  $35^{\circ}20'N$ . on the lat.arc;  $13^{\circ}18'N$ . on the decl.arc, and determine a meridian with the solar at the cor.of secs.3,4,33 and 34 on the S.bdy.

Thence I run,  
N. $0^{\circ}2'W$ ., bet. secs.33 and 34.

Over rolling land; descend.

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.and S. of post 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 Wash, 125 lks.wide, course N. $30^{\circ}W$ .

80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor.of secs.27,28, 33 and 34, marked on brass cap,

T 23 N R 15 W in N.half,

S 28 in NW.,

S 27 in NE.,

S 34 in SE., and

S 33 in SW. quadrant; 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, sandy loam; fair grazing.

N. $89^{\circ}59'E$ ., on a random line, bet. secs.27 and 34.

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

80.00 Intersect N.and S. line 2 lks.N.of cor. of secs.26,27,34 and 35.

Thence I run,

W.on a true line, bet. secs.27 and 34.

Over rolling land; descend.

14.83 Wash, 20 lks.wide, course N. $60^{\circ}W$ .

24.00 Wash, 30 lks.wide, course N. $60^{\circ}W$ .

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 27 in N., and  
S 34 in S.half; dig pits 18x18x12 ins.E.and W.of post 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high,N.of cor.

56.00 Wash, 20 lks.wide, course NW.

80.00 The cor.of secs.27,28, 33 and 34.

Land, rolling.

Soil, sandy loam; fair grazing.

N. $0^{\circ}2'W$ ., bet. secs.27 and 28.

Over rolling land, descend.

19.00 Wash, 100 lks.wide, course NW.

36.00 Wash, 100 lks.wide, course NW.

40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for  $\frac{1}{4}$  sec.cor., marked on brass cap,  
 $\frac{1}{4}$  S 28 in W., and

S 27 in E.half; dig pits 18x18x12 ins.N.and S.of post 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high,W.of cor.

62.75 Wash, 20 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. 21,22, 27 and 28, marked on brass cap,

T 23 N, R 15 W in N.half,

S 21 in NW.,

S 22 in NE.,

Subdivision of Township 23 North Range 15 West. 11.

Chains.

S 27 in SE., and.  
 S 28 in SW. quadrant; 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, sandy loam; fair grazing.

E. on a random line, bet. secs. 22 and 27.  
 40.00 Set temp. ¼ sec. cor.  
 80.06 Intersect N. and S. line 2 lks. N. of cor. of secs. 22, 23, 26 and 27.  
 Thence I run,  
 N. 89° 59' W. on a true line, bet. secs. 22 and 27.  
 Over rolling land; descend.  
 26.00 Wash, 20 lks. wide, course N. 50° W.  
 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 22 in N., and S 27 in S. half; dig pits 18x18x12 ins. E. and W. of post 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, N. of cor.  
 80.06 The cor. of secs. 21, 22, 27 and 28.  
 Land, rolling.  
 Soil, sandy loam; fair grazing.

N. 0° 2' W., bet. secs. 21 and 22.  
 Over rolling land, descend.  
 21.06 Intersect center line of Santa Fe R.R., 8.48 chs. S. 38° 24' W. of mile post #500.  
 22.20 Road bears N. 38½° E. and S. 38½° W.  
 24.50 Wash, 50 lks. wide, course N. 20° W.  
 31.60 Wash, 70 lks. wide, course N. 30° W.  
 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 21 in W., and S 22 in E. half; dig pits 18x18x12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, W. of cor.  
 52.55 Road, brs. NW. and SE.  
 67.00 Wash, 20 lks. wide, course N. 50° W.  
 75.00 Wash 100 lks. wide, course N. 50° W.  
 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 and 22, marked on brass cap,  
 T 23 N R 15 W in N. half;  
 S 16 in NW.,  
 S 15 in NE.,  
 S 22 in SE., and  
 S 21 in SW. quadrant; 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, sandy loam; fair grazing.

S. 89° 59' E., on a random line, bet. secs. 15 and 22.  
 40.00 Set temp. ¼ sec. cor.  
 80.08 Intersect N. and S. line at the true point for cor. of secs. 14, 15, 22 and 23.  
 Thence I run,  
 N. 89° 59' W., on a true line, bet. secs. 15 and 22.

Chains.

- Over rolling land; descend.
- 33.24 Intersect center line of Santa Fe R.R. about 10 chs. S.  $38^{\circ}24'E.$  of curve point.
- 34.84 Road parallel to R.R.
- 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 15 in N., and S 22 in S. half; dig pits 18x18x12 ins. E. and W. of post 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 The cor. of secs. 15, 16, 21 and 22.  
Land, rolling.  
Soil, sandy loam; fair grazing.

- April 26, 1911: I set off  $13^{\circ}21'N.$  on the decl. arc; and at 11h. 58m. a.m., 1.m.t., observe the sun on the meridian; the resulting lat. is  $35^{\circ}23'N.$   
N.  $0^{\circ}2'W.$ , bet. secs. 15 and 16.
- Over gently rolling land; descend.
- 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 18x18x12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.
- 64.60 Wash, 50 lks. wide, course NW.
- 80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 9, 10, 15 and 16, marked on brass cap,  
T 23 N, R 15 W in N. half,  
S 9 in NW.,  
S 10 in NE.,  
S 15 in SE., and  
S 16 in SW. quadrant; 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, sandy loam; fair grazing.

- S.  $89^{\circ}59'E.$  on a random line, bet. secs. 10 and 15.
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 80.10 Intersect N. and S. line 5 lks. S. of cor. of secs. 10, 11, 14 and 15.  
Thence I run,  
S.  $89^{\circ}59'W.$ , on a true line, bet. secs. 10 and 15.
- Over rolling land; descend.
- 32.00 Wash, 30 lks. wide, course NW.
- 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 10 in N., and S 15 in S. half; dig pits 18x18x12 ins. E. and W. of post 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.
- 77.40 Wash, 25 lks. wide, course NW.
- 80.10 The cor. of secs. 9, 10, 15 and 16.  
Land, rolling.  
Soil, sandy loam; fair grazing.

- N.  $0^{\circ}2'W.$ , bet. secs. 9 and 10.  
Over level valley.
- 2.50 Wash, 10 lks. wide, course NW.

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Chains.

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

42.50 Wash, 10 lks. wide, course NW.

48.02 Old road, brs. N.  $65^{\circ}$ E. and S.  $65^{\circ}$ W.

79.50 Wash, 15 lks. wide, course NW.

80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 3, 4, 9 and 10, marked on brass cap,  
T 23 N, R 15 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.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.  
Land, nearly level.  
Soil, sandy loam; fair grazing.

N.  $89^{\circ}59'$ E. on a random line, bet. secs. 3 and 10.

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

80.12 Intersect N. and S. line 5 lks. N. of cor. of secs. 2, 3, 10 and 11.  
Thence I run,  
N.  $89^{\circ}59'$ W., on a true line, bet. secs. 3 and 10.  
Over rolling land; descend.

10.35 Wash, 20 lks. wide, course NW.

25.43 Old road, brs. NE. and SW.

25.60 Wash, 25 lks. wide, course N.  $65^{\circ}$ W.

40.06 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. and W. of post 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

80.12 The cor. of secs. 3, 4, 9 and 10.  
Land, rolling.  
Soil, sandy loam; fair grazing.

N.  $0^{\circ}2'$ W., on a random line, bet. secs. 3 and 4.

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

80.13 Intersect N. bdy. of Tp. 28 lks. W. of cor. of secs. 3, 4, 33 and 34.  
Thence I run,  
S.  $0^{\circ}10'$ W. on a true line, bet. secs. 3 and 4.  
Over rolling land.

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

53.10 Wash, 25 lks. wide, course W.

80.13 The cor. of secs. 3, 4, 9 and 10.  
Land, gently rolling.  
Soil, sandy loam; fair grazing.

April 26, 1911.

April 27, 1911: At 8:00 a.m., l.m.t., I set off  $35^{\circ}20'$

Chains.

- N. on the lat.arc;  $13^{\circ}37'N.$  on the decl.arc, and determine a meridian with the solar at the cor.of secs.4, 5, 32 and 33 on the south bdy.
- Thence I run,  
 $N.0^{\circ}3'W.$ , bet. secs. 32 and 33.  
 Over gently 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 32 in W.; and  
 S 33 in E.half; dig pits 18x18x12 ins. N.and S. of post 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high,W.of cor.
- 79.00 Set an iron post 3 ft. long, 2 ins.diam., 24 ins. in the ground for witness cor. to secs.28,29,32 and 33, marked on brass cap,  
 W C, N of center,  
 T 23 N, R 15 W in N. half,  
 S 29 in NW.,  
 S 28 in NE.,  
 S 33 in SE., and  
 S 32 in SW. quadrant; dig pits 18x18x12 ins.NW., NE., SE., and SW. of post  $5\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high,W.of cor.
- 80.00 Point for sec.cor. comes on bank of R.R.fill.  
 Land, rolling.  
 Soil, sandy loam; fair grazing.
- 
- From the true point for the cor. of secs.28,29,32 and 33, I run,  
 $N.89^{\circ}59'E.$ , on a random line, bet. secs. 28 and 33.
- 40.00 Set temp.  $\frac{1}{4}$  sec.cor.
- 79.98 Intersect N.and S. line 3 lks.S.of cor. of secs.27,28, 33 and 34.
- Thence I run,  
 $S.89^{\circ}58'W.$ , on a true line, bet. secs.28 and 33.  
 Over rolling land.
- 34.50 Wash,40 lks.wide, course NW.
- 39.99 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec.cor., marked on brass cap,  
 $\frac{1}{4}$  S 28 in N.; and  
 S 33 in S.half; dig pits 18x18x12 ins. E.and W.of post 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft.base,  $1\frac{1}{2}$  ft. high,N.of cor.
- 79.98 The true point for cor.of secs. 28,29,32 and 33.  
 Land, rolling.  
 Soil, sandy loam; fair grazing.
- 
- From the true point for the cor. of secs.28,29,32 and 33, I run,  
 $N.0^{\circ}3'W.$ , bet. secs. 28 and 29.  
 Over rolling land.
- 0.44 Intersect center line of Santa Fe R.R., 33 lks.S. $38^{\circ}22'$  W. of the W. switch stand at Hualapai Station R.R. bears  $N.38^{\circ}22'E.$  and S.  $38^{\circ}22' W.$
- 2.08 Road parallel to R.R.
- 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.and S.of post 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high,W.of cor.
- 44.50 Wash,40 lks.wide, course NW.
- 80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in



Subdivision of Township 23 North, Range 15 West.

Chains.

ground for cor. of secs. 20, 21, 28 and 29, marked on brass cap,  
T 23 N, R 15 W in N. half;  
S 20 in NW.,  
S 21 in NE.,  
S 28 in SE., and  
S 29 in SW. quadrant; 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, sandy loam; fair grazing.

40.00 N. 89° 58' E. m on a random line, bet. secs. 21 and 28.  
Set temp. 1/4 sec. cor.  
80.02 Intersect N. and S. line 2 lks. N. of cor. of secs. 21, 22, 27 and 28.

Thence I run;  
S. 89° 59' W., on a true line, bet. secs. 21 and 28.  
Over rolling land, descend.

16.48 Intersect center line of Santa Fe R.R., which bears N. 38° 22' E., and S. 38° 22' W.

17.65 Road parallel to R.R.

40.01 Set an iron post 3 ft. long, 1 in. indiam., 26 ins. in the ground for 1/4 sec. cor., marked on brass cap, 1/4 S 21 in N., and 1/4 S 28 in S. half; dig pits 18x18x12 ins. E. and W. of post 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.

50.00 Wash 60 lks. wide, course N. 70° W.

80.02 The corner of secs. 20, 21, 28 and 29.

Land, rolling.  
Soil, sandy loam; fair grazing.

N. 0° 3' W., bet. secs. 20 and 21.  
Over rolling land.

6.00 Wash, 70 lks. wide, course N. 80° W.

19.70 Wash, 20 lks. wide, course N. 80° W.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for 1/4 sec. cor., marked on brass cap, 1/4 S 20 in W., and 1/4 S 21 in E. half; dig pits 18x18x12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

71.25 Road, brs. NW. and SE.

80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 16, 17, 20, and 21, marked on brass cap,

T 23 N, R 15 W in N. half;  
S 17 in NW.,  
S 16 in NE.,  
S 21 in SE., and  
S 20 in SW. quadrant; 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, sandy loam; fair grazing.

40.00 N. 89° 59' E. on a random line bet. secs. 16 and 21.  
Set temp. 1/4 sec. cor.

80.00 Intersect N. and S. line 2 lks. S. of cor. of secs. 15, 16, 21 and 22.

Thence I run,

16. Subdivision of Township 23 North, Range 15 West.

Chains.

S.89° 58'W. on a true line, bet. secs.16 and 21.  
Over rolling land; descend.

- 9.52 Wash, 50 lks.wide, course N. 60°W.
- 20.50 Wash, 15 lks.wide, course N.60°W.
- 38.55 Old road, brs. NW. and 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 16 in N., and S 21 in S.half; dig pits 18x18x12 ins. E.and W.of post 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, N.of cor.
- 48.42 Wash 20 lks.wide, course NW.
- 80.00 The cor.of secs. 16,17,20 and 21.  
Land, rolling.  
Soil, sandy loam; fair grazing.  
April 27, 1911: I set off 13°40'N. on the decl.arc; and at 11h.58m.a.m., 1.m.t., observe the sun on the meridian; the resulting lat.is 35° 23'N.

N.0°3'W., bet. secs.16 and 17.  
Over nearly level land.

- 27.50 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 17 in W., and S 16 in E.half; dig pits 18x18x12 ins.N.and S.of post 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, W.of cor.
- 49.55 Road, brs. NW. and SE. for cor.
- 80.00 Set an iron post 3 ft. long, 2 ins.in diam., 24 ins.in ground of secs. 8,9,16 and 17, marked on brass cap, T 23 N, R 15 W in N.half; S 8 in NW., S 9 in NE., S 16 in SE., and S 17 in SW. quadrant; 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, sandy loam; fair grazing.

N.89°58'E. on a random line, bet. secs.9 and 16.

- 40.00 Set temp.  $\frac{1}{4}$  sec.cor.
- 80.00 Intersect N.and S. line, 7. lks.N.of cor. of secs. 9,10, 15 and 16.  
Thence I run,  
N.89°59'W. on a true line, bet. secs.9 and 16.  
Over smooth land.
- 21.00 Wash, course NW., 20 lks.wide.
- 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. half, and S 16 in S.half; dig pits 18x18x12 ins.E.and W.of post 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, N.of cor.
- 80.00 The cor.of secs. 8,9,16 and 17.  
Land, smooth.  
Soil, sandy loam, fair grazing.

N.0°3'W., bet. secs. 8 and 9.  
Over smooth valley land.

Chains.

5.00 Arroyo, 10 lks.wide, course W.  
 8.50 Road, brs. N. 65° E.and S.65°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 8 in W., and S 9 in E.half; dig pits 18x18x12 ins. N.and S.of post 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. 4,5,8 and 9, marked on brass cap,  
 T 23 N, R 15 W in N.half;  
 S 5 in NW., and  
 S 4 in NE.,  
 S 9 in SE., and  
 S 8 in SW. quadrant; 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, smooth and nearly level.  
 Soil, sandy loam; fair grazing.

S.89°59'E., on a random line, bet. secs. 4 and 9.  
 40.00 Set temp.  $\frac{1}{4}$  sec.cor.  
 79.96 Intersect N.and S. line 2 lks.N.of cor. of secs. 3,4,9 and 10.  
 Thence I run,  
 N.89°58'W., on a true line, bet. secs.4 and 9.  
 Over smooth valley land.  
 0.50 Wash, 15 lks.wide, course NW.  
 36.20 Wash,30 lks.wide, course NW.  
 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.half; and S 9 in S.half; dig pits 18x18x12 ins.E.and W.of post 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 The cor.of secs. 4,5,8 and 9.  
 Land, smooth and nearly level.  
 Soil, sandy loam, fair grazing.

N.0° 3'W., on a random line, bet. secs.4 and 5.  
 40.00 Set temp.  $\frac{1}{4}$  sec.cor.  
 80.13 Intersect N. bdy.of township 30 lks.W.of cor.to secs. 4,5,32 and 33.  
 Thence I run,  
 S.0°10'W. on a true line, bet. secs.4 and 5.  
 Over gently rolling land; ascend.  
 40.13 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 W.,and S 4 in E.half; dig pits 18x18x12 ins. N.and S.of post 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high,W.of cor.  
 47.30 Wash,25 lks.wide, course NW.  
 80.13 The cor.of secs.4,5,8 and 9.  
 Land, smooth valley land; soil, sandy loam; fair grazing.  
 April 27, 1911.

April 28, 1911: At 8:00 a.m., l.m.t., I set off 35°20' N. on the lat.arc; 13°57'N. on the decl.arc, and determine a meridian with the solar at the cor.of secs. 5,6,31 and 32 on the S.bdy.  
 Thence I run,

## 18. Subdivision of Township 23 North, Range 15 West.

Chains

- N.0°3' W., bet. secs. 31 and 32.  
Over smooth valley 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 31 in W., and  
S 32 in E.half; dig pits 18x18x12 ins. N.and S. of post 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. diam., 24 ins. in ground for cor. of secs. 29,30, 31 and 32, marked on brass cap,  
T 23 N, R 15 W in N.half,  
S 30 in NW.,  
S 29 in NE.,  
S 32 in SE., and  
S 31 in SW. quadrant; 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, smooth.  
Soil, sandy loam; fair grazing.
- 
- N.89°59'E. on a random line, bet. secs.29 and 32.
- 40.00 Set temp.  $\frac{1}{4}$  sec.cor.
- 80.02 Intersect N.and S. line 5 lks.N.of the true point for cor.of secs.28,29,32 and 33.  
Thence I run,  
N.89°59'W., on a true line, bet. secs. 29 and 32.  
Over smooth valley land.
- 0.29 Intersect center line of Santa Fe R.R., which bears N.38°22'E.and S.38°22'W.
- 1.68 Road parallel to R.R.
- 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 29 in N., and  
S 32 in S.half; dig pits 18x18x12 ins., E.and W. of post 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high,N.of cor.
- 80.02 The cor.of secs. 29,30, 31 and 32.  
Land, smooth valley land; soil, sandy loam; fair grazing.
- 
- S.89° 59' W. on a random line, bet. secs. 30 and 31.
- 40.00 Set temp.  $\frac{1}{4}$  sec.cor.
- 78.16 Intersect W.bdy. of township 2 lks.N.of cor. of secs.25, 30, 31 and 36.  
Thence I run,  
N.89°58'E., on a true line, bet. secs.30 and 31.  
Over smooth valley 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 30 in N., and  
S 31 in S.half; dig pits 18x18x12 ins.,E.and W. of post 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high,N.of cor.
- 78.16 The cor.of secs.29,30, 31 and 32.  
Land, smooth valley land.  
Soil, sandy loam; fair grazing.
- 
- N.0°3'W., bet. secs. 29 and 30.
- 40.00 Over smooth valley land.  
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.and S.

Chains.

- of post 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. diam., 24 ins. in the ground for cor. of secs. 19, 20, 29 and 30, marked on brass cap,  
 T 23 N, R 15 W in N. half;  
 S 19 in NW.,  
 S 20 in NE.,  
 S 29 in SE., and  
 S 30 in SW. quadrant; 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, smooth.  
 Soil, sandy loam; fair grazing.  
 April 28; 1911: I set off  $13^{\circ}59'N$ . on the decl. arc; and at 11h.58m. a.m., 1.m.t., observe the sun on the meridian; the resulting lat. is  $35^{\circ}22'N$ .
- 

- S.  $89^{\circ}59'E$ . on random line, bet. secs. 20 and 29.
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 79.98 Intersect N. and S. line 7 lks. S. of cor. of secs. 20, 21, 28 and 29.  
 Thence I run,  
 S.  $89^{\circ}58'W$ , on a true line bet. secs. 20 and 29.  
 Over smooth valley land.
- 23.10 Wash, 50 lks. wide, course N.  $15^{\circ}W$ .
- 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; dig pits 18x18x12 ins. E. and W. of post 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.
- 79.98 The cor. of secs. 19, 20, 29 and 30.  
 Land, smooth valley land.  
 Soil, sandy loam; fair grazing.
- 

- S.  $89^{\circ}58'W$ , on a random line, bet. secs. 19 and 30.
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 78.00 Intersect W. bdy. of township at cor. of secs. 19, 24, 25 and 30.  
 Thence I run,  
 N.  $89^{\circ}58'E$ . on a true line, bet. secs. 19 and 30.  
 Over smooth valley land.
- 38.00 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 N., and  
 S 30 in S. half; dig pits 18x18x12 ins. E. and W. of post 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.
- 78.00 The cor. of secs. 19, 20, 29 and 30.  
 Land, smooth valley land.  
 Soil, sandy loam; fair grazing.
- 

- N.  $0^{\circ}3'W$ , bet. secs. 19 and 20.  
 Over smooth valley 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 19 in W., and  
 S 20 in E. half; dig pits 18x18x12 ins. N. and S. of post 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

Chains.

the ground for cor. of secs. 17, 18, 19 and 20, marked on brass cap,

T 23 N., R 15 W in N. half;

S 18 in NW.,

S 17 in NE.,

S 20 in SE.; and

S 19 in SW. quadrant; 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, smooth valley land; soil, sandy loam; fair grazing.

N. 89° 58' E., on a random line, bet. secs. 17 and 20.

40.00 Set temp. 1/4 sec. cor.

79.96 Intersect N. and S. line 7 lks. N. of cor. of secs. 16, 17, 20 and 21.

Thence I run,

N. 89° 59' W., on a true line, bet. secs. 17 and 20.

Over smooth valley land.

9.52 Road, brs. NW. and SE.

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 17 in N., and

S 20 in S. half; dig pits 18x18x12 ins. E. and W. of post 3 ft. dist.; and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.

79.96 The cor. of secs. 17, 18, 19 and 20.

Land; smooth valley land.

Soil, sandy loam; fair grazing.

April 28, 1911.

April 29, 1911: At 8:00 a.m., l.m.t., I set off 35° 23' N. on the lat. arc; 14° 16' N. on the decl. arc, and determine a meridian with the solar at the cor. to secs. 17, 18, 19 and 20.

Thence I run,

S. 89° 58' W. on random line, bet. secs. 18 and 19.

40.00 Set temp: 1/4 sec. cor.

77.90 Intersect W. bdy. of township 7 lks. S. of cor. of secs. 13, 18, 19 and 24.

Thence I run,

S. 89° 59' E., on a true line, bet. secs. 18 and 19.

Over smooth valley land.

37.90 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 18 in N., and

S 19 in S. half; dig pits 18x18x12 ins. E. and W. of post 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.

46.00 Center of Hualapai Valley, no well defined channel, drains NE.

77.90 The cor. of secs. 17, 18, 19 and 20.

Land, smooth valley land; soil, sandy loam; fair grazing.

N. 0° 3' W., bet. secs. 17 and 18.

Over smooth valley land.

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 18 in W., and

S 17 in E. half; dig pits 18x18x12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

47.15 Road, brs. N. 48° E. and S. 48° W.

## Chains.

- 80.00 Set a post 3 ft. long, 2 ins. indiam., 24 ins. in the ground for cor. of secs. 7, 8, 17 and 18, marked on brass cap,  
 T 23 N, R 15 W in N. half;  
 S 7 in NW.,  
 S 8 in NE.,  
 S 17 in SE., and  
 S 18 in SW. quadrant; 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, sandy loam, mixed with gravel; fair grazing.
- 
- 40.00 S.  $89^{\circ}59'E.$  on a random line, bet. secs. 8 and 17.  
 Set temp.  $\frac{1}{4}$  sec. cor.  
 80.02 Intersect N. and S. line 7 lks. S. of cor. of secs. 8, 9, 16 and 17.  
 Thence I run,  
 S.  $89^{\circ}58'W.$ , on a true line, bet. secs. 8 and 17.  
 Over smooth valley land; descend gradually.  
 31.85 Old road, brs. N.  $65^{\circ}E.$  and S.  $65^{\circ}W.$   
 32.81 Road, brs. N.  $10^{\circ}E.$  and S.  $10^{\circ}W.$   
 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 8 in N., and  
 S 17 in S. half; dig pits 18x18x12 ins. E. and W. of post 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 Land, level, E. and W., drainage to N.  $15^{\circ}E.$ ; overflow in wet weather. No well-defined water course.  
 80.02 The cor. of secs. 7, 8, 17 and 18.  
 Land, level valley.  
 Soil, hard stiff clay; no grass.
- 
- N.  $89^{\circ}59'W.$  on a random line, bet. secs. 7 and 18.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 77.82 Intersect W. bdy. of Tp. 5 lks. N. of cor. of secs. 7, 12, 13 and 18.  
 Thence I run,  
 N.  $89^{\circ}59'E.$ , on a true line, bet. secs. 7 and 18.  
 Descend foot-hills.  
 37.82 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. and W. of post 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.  
 Descend gradually across valley.  
 49.00 A conical malpais hill 200 ft. high, bears N., about 15 chs.  
 72.00 Foot of descent; proceed across level valley.  
 77.82 Cor. of secs. 7, 8, 17 and 18.  
 Land, rolling.  
 Soil, sandy loam; fair grazing.  
 April 29, 1911: I set off  $14^{\circ}18' N.$  on the decl. arc; and at 11h. 57m. a.m., 1 m. t., observe the sun on the meridian; the resulting lat. is  $35^{\circ} 24' N.$
- 
- N.  $0^{\circ}3'W.$ , bet. secs. 7 and 8.  
 Over level ground.  
 8.00 Ascend gradual slope to E. and S.

- Chains.
- 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 on W., and S 8 in E. half; dig pits 18x18x12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor. Top of ascent along gentle E. slope.
- 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 and 8, marked on brass cap, T 23 N, R 15 W in N. half, S 6 in NW., S 5 in NE., S 8 in SE., and S 7 in SW. quadrant; 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, sandy loam; fair grazing.

- 
- N.  $89^{\circ}58'E.$ , on a random line, bet. secs. 5 and 8.
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 79.98 Intersect N. and S. line 2 lks. N. of cor. of secs. 4, 5, 8 and 9.
- Thence I run,  
S.  $89^{\circ}59'W.$  on a true line, bet. secs. 5 and 8.  
Over smooth valley land.
- 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 5 in N., and S 8 in S. half; dig pits 18x18x12 ins. E. and W. of post 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.
- 79.98 The cor. of secs. 5, 6, 7 and 8.  
Land, gently rolling.  
Soil, sandy loam; fair grazing.

- 
- S.  $89^{\circ}59'W.$ , on a random line, bet. secs. 6 and 7.
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 77.75 Intersect W. bdy. of Tp. 3 lks. N. of cor. of secs. 1, 6, 7 and 12.
- Thence I run,  
N.  $89^{\circ}58'E.$ , on a true line, bet. secs. 6 and 7.  
Over foot-hills of mountains; descend.  
Foot of descent.
- 36.00
- 37.75 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; dig pits 18x18x12 ins., E. and W. of post 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.
- 77.75 The cor. of secs. 5, 6, 7 and 8.  
Land, gently rolling, east 40 chs. Soil, sandy loam, land heavily rolling west 37.82 chs. Soil, sandy loam, mixed with gravel; fair grazing.

- 
- N.  $0^{\circ}3'W.$ , on a random line, bet. secs. 5 and 6.
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 80.12 Intersect N. bdy. of Tp. 26 lks. W. of cor. of secs. 5, 6, 31 and 32.
- Thence I run,



Chains.

- S.0°8'W., on a true line, bet. secs.5 and 6.  
Over smooth land; ascend gradually.
- 40.12 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 W., and S 5 in E.half; dig pits 18x18x12 ins. N.and S.of post 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high,W.of cor.
- 80.12 The cor.of secs.5,6,7 and 8.  
Land, gently rolling.  
Soil, sandy loam, mixed with gravel; fair grazing.  
April 29, 1911.

General Description.

This township lies wholly in the almost level Hualapai Valley. The soil is a sandy loam, with a stiff,clay sub-soil at a depth of about 2 ft., and produces a fair growth of bunch grass. There is no timber in the township.

The only water in the township is on the SW.quarter of sec.13 at the ranch of Mr. Henry Bacon, whose house is located thereon.

The Santa Fe R.R.passes through this township diagonally, from NE. to SW.

*W. J. Bacon*  
U. S. Transitman.

4924

APPROVAL.

BOOK 2312

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

*Phoenix Ariz. March 15, 1912*

The foregoing field notes of the survey of *the subdivisions of T23N, R15W.*  
*Go SR Meridian Arizona*

executed by *W. O. Deery, M. D. Parviturian*  
under his special instructions dated *Sept. 16*, 191*0*, 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. Dgall*  
U. S. Surveyor General.