

exhibited  
June 11

Book G.

BOOK 2213

NOV 28 1910

2213

# FIELD NOTES

Accepted, Letter E.  
Aug 10 - 1911

2213

2213

OF THE SURVEY OF THE

2213

Subdivision lines of Tp. 14 N. Rg. 7 W.

2213

Of the Gila and Salt River Meridian,  
Territory of Arizona

AS SURVEYED BY

2213

John F. Hesse, United States Deputy Surveyor,

Under his Contract No. 158, dated June 4, 1909, 19

Survey commenced March 17, 1910, 19

Survey completed March 25, 1910, 19

2213

2213

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BOOK 2213

NAMES AND DUTIES OF ASSISTANTS.

A. N. Oliver

Chairman

A. E. Lyon

Chairman

P. Larson

Flagman

BOOK 2213

# INDEX DIAGRAM.

Township 14 N, Range 7 W.

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BOOK 2213

PRELIMINARY OATHS OF ASSISTANTS.

WE, A. N. Oliver and A. E. Lyon  
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of  
the subdivision lines of Tp. 14 N. Rg. 7 W.

A. N. Oliver, Chainman.  
A. E. Lyon, Chainman.

Subscribed and sworn to before me this 10th.  
day of March, 1910., 19

John P. Hesse  
U. S. DEPUTY SURVEYOR



WE, \_\_\_\_\_ and \_\_\_\_\_  
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

\_\_\_\_\_, Moundman.  
\_\_\_\_\_, Moundman.

Subscribed and sworn to before me this \_\_\_\_\_  
day of \_\_\_\_\_, 19



WE, \_\_\_\_\_ and \_\_\_\_\_  
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

\_\_\_\_\_, Axman.  
\_\_\_\_\_, Axman.

Subscribed and sworn to before me this \_\_\_\_\_  
day of \_\_\_\_\_, 19



I, P. Larson, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the subdivision lines of Tp. 14 N. Rg. 7 W.

P. Larson, Flagman.

Subscribed and sworn to before me this 10th.  
day of March, 1910., 19

John P. Hesse  
U. S. Deputy Surveyor.



No notary available without loss of time and great expense.

Chains.

Survey commenced March 17, 1910 and executed with an A. Lietz Co. light mountain transit No. 5631 with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of arc; which is also the least count of the verniers of the latitude and decl. arcs. The instrument was examined, tested on the true meridian at Phoenix, found correct, and was approved by the surveyor general for Arizona. I examine the adjustments of the transit, and find them 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. of secs. 1, 2, 35 and 36 on the S. bdy. of the township; latitude  $34^{\circ} 32' 10'' N.$  longitude  $112^{\circ} 56' 58'' W.$  I set off  $34^{\circ} 32' N.$  on the lat. arc;  $1^{\circ} 22' S.$  on the decl. arc; and at 4h. 00m. p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground, 5 chs. N. of my station. At 7h. 44m. p.m., l.m.t., by my watch, which has correct l.m.t., I observe Polaris at western elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground, 5 chs. N. of my station.

March 17, 1910.

March 18: At 7h. 30m. a.m., l.m.t., I lay off the azimuth of Polaris,  $1^{\circ} 26'$  to the east, and mark the meridian thus determined, by cutting a small groove in the stone set March 17, on which the meridian coincides with the mark determined by the solar.

At 8h. 00m. a.m., l.m.t., I set off  $34^{\circ} 32' N.$  on the lat. arc;  $1^{\circ} 06' S.$  on the decl. arc; and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station; this mark coincides with the meridian established by the Polaris observation.

The solar apparatus, by p.m., and a.m., observations, defines positions for meridians, which coincide with the meridian established by the Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8h. 15m. a.m., is N.  $14^{\circ} 30'$  W.; the angle thus determined gives the mag. decl.  $14^{\circ} 30'$  E.

I commence at the cor. of secs. 1, 2, 35 and 36 on the south boundary of the township, previously described.

Thence I run

N.  $0^{\circ} 01'$  W. bet. secs. 35 and 36

Descend steep slope.

8.00 Cross drain 7 lks. wide course N. W. and ascend.

21.00 Ridge bears E. and W. descend.

34.00 Cross Kirkland Creek 75 lks. wide course N. W. pure, running water. Ascend.

39.00 Ridge bears E. and W. descend.

40.00 Mark a cross on a granite rock in place  $3\frac{1}{2} \times 3 \times 3$  ft. above ground for exact point for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. of cross; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.

50.00 Cross drain 6 lks. wide course W. ascend.

77.00 Ridge bears E. and W. descend.

80.00 Set a malpais stone 18 x 10 x 10 ins. 12 ins. in the ground for cor. of secs. 25, 26, 35 and 36, marked with 1 notch on S. and E. edges; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.

Land, mountainous.

Soil, rocky; 4th. rate.

Subdivision of Tr. 14 N. Rg. 7 W.

Chains. No timber.  
 Mountainous land 80.00 chs.  
 March 18: At this cor. I set off 1° 03' S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 34° 33' N.

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40.00 East on a random line bet. secs. 25 and 36  
 Set temp.  $\frac{1}{4}$  sec. cor.  
 80.08 Intersect E. bdy. of the Tr. 12 lks. N. of the cor. of secs. 25, 30, 31 and 36  
 Thence I run  
 No. 896855' W. on a true line bet. secs. 25 and 36  
 Descending steep slope.  
 12.60 Cross wash 10 lks. wide course N. W. ascend.  
 19.75 Ridge bears N. W. and S. E. descend.  
 37.80 Cross drain 8 lks. wide course N. W. ascend.  
 40.04 Set a malpais stone 18 x 9 x 6 ins. 12 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on N. face; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, N. of cor. Pits impracticable.  
 41.00 Ridge bears N. and S. descend.  
 47.75 Cross wash 10 lks. wide course N. W. ascend.  
 64.50 Ridge bears N. W. and S. E. and descend.  
 80.08 The cor. of secs. 25, 26, 35 and 36.  
 Land, mountainous.  
 Soil, rocky; 4th. rate.  
 No timber.  
 Mountainous land 80.08 chs.

March 18, 1910.

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March 19; At 8h. 00m. a.m., l.m.t., I set off 34° 33' N on the lat. arc; 0° 42 $\frac{1}{2}$ ' S on the decl. arc; and determine a meridian with the solar at the cor. of secs. 25, 26, 35 and 36  
 Thence I run  
 N. 0° 01' W. bet. secs. 25 and 26  
 Descending steep N. slope.  
 1.00 Cross drain 8 lks. wide course W. and ascend.  
 14.00 Ridge bears E. and W. descend.  
 11.00 Cross wash 10 lks. wide course S. W. ascend.  
 13.25 Ridge bears E. and W. descend 36.80  
 26.50 Cross drain 8 lks. wide course W. and ascend.  
 36.50 Ridge bears E. and W. descend.  
 40.00 Set a granite stone 18 x 10 x 6 ins. 12 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
 42.25 Cross wash 20 lks. wide course W. ascend.  
 46.00 Ridge bears E. and W. descend.  
 46.50 Cross road bears E. and W.  
 55.30 Cross drain 8 lks. wide course W. ascend.  
 56.75 Ridge bears E. and W. descend.  
 60.00 Cross wash 25 lks. wide course W. ascend.  
 65.30 Ridge bears E. and W. descend.  
 72.25 Cross wash 25 lks. wide course N. W. ascend.  
 77.00 Ridge bears E. and W. descend.  
 80.00 Set a malpais stone 20 x 12 x 8 ins. 15 ins. in the ground for cor. of secs. 23, 24, 25 and 26, marked with 2 notches on S. and 1 notch on E. edges; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
 Land mountainous.  
 Soil, rocky; 4th. rate.  
 No timber.  
 Mountainous land 80.00 chs.  
 March 19: At this cor. I set off 0° 39 $\frac{1}{2}$ ' S. on the decl. arc; and observe the sun on the meridian at noon; the

## Subdivision of Tp. 14 N. Rg. 7 W.

Chains.	
	resulting lat. is $34^{\circ}34'N$ ✓
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	S. $89^{\circ}55'$ E. on a random line bet. secs. 24 and 25
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.02	Intersect E. bdy. of Tp. 14 lks. S. of the cor. of secs. 19, 24, 25 and 30
	Thence I run
	S. $89^{\circ}59'$ W. on a true line bet. secs. 24 and 25
	Descending rough W. slope.
13.50	Cross wash, 10 lks. wide course N. ascend.
23.50	Ridge bears N. W. and S. E. descend.
40.01	Set a malpais stone 18 x 10 x 8 ins. 13 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable. Ascend.
46.00	Ridge bears N. W. and S. E. descend.
51.00	Cross wash 75 lks. wide course N. W. ascend.
75.50	Ridge bears N. W. and S. E. descend.
80.02	The cor. of secs. 23, 24, 25, and 26.
	Land, mountainous.
	Soil, rocky; 4th. rate.
	No timber.
	Mountainous land, 80.02 chs.
	March 19, 1910.
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	March 20: At 8h. 00m. a.m., l.m.t., I set off $34^{\circ}32'N$ ✓ on the lat. arc; $0^{\circ}19' S$ on the decl. arc; and determine a meridian with the solar at the cor. of secs. 2, 3, 34, and 35 on the S. bdy. of the Tp. previously described.
	Thence I run
	N. $0^{\circ}01'$ W. bet. secs. 34 and 35.
	Descending steep slope.
16.50	Cross drain 7 lks. wide course N. W. ascend.
19.00	Descend steep N. W. slope.
27.50	Cross same drain Course N. E.
34.60	Cross Kirkland Creek 125 lks. wide clear running water. Across flat.
39.75	Ascend steep slope.
40.00	Set a granite stone 18 x 8 x 8 ins. 13 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
44.25	Ridge bears E. and W. descend.
49.00	Cross wash 20 lks. wide course S. W. ascend.
57.50	Ridge bears E. and W. descend.
68.00	Cross wash 20 lks. wide course S. W. ascend.
75.00	Ridge bears N. E. and S. W. descend.
80.00	Set a granite stone 20 x 10 x 6 ins. 15 ins. in the ground for cor. of secs. 26, 27, 34 and 35, marked with 1 notch on S. and 2 notches on E. edges; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. <i>From this cor. Schutt's house bears <math>N42^{\circ}15'W</math>.</i>
	Land, mountainous.
	Soil, rocky; 4th. rate.
	No timber.
	Mountainous land, 80.00 chs. ✓
	March 20; At this cor. I set off $0^{\circ}15\frac{1}{2}' S$ on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is $34^{\circ}33'N$ ✓
	<hr/>
	East on a random line bet. secs. 35 and 35
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.06	Intersect N. and S. line 2 lks. S. of the cor. of secs.

Subdivision of Tp. 14 N. Rg. 7 W.

Drains.

35, 36, 35 and 36  
Thence I run  
S. 89° 56' W. bet. secs. 36 and 35 on a true line.  
Descend steep slope.

20.00 Cross drain 8 lks. wide course N. W. ascend.  
23.00 Granite ridge bears N. W. and S. E. descend.  
40.03 Set a granite stone 18 x 8 x 5 ins. 12 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on N. face; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, N. of cor. Pits impracticable.

41.75 Cross wash 30 lks. wide course N. W. ascend.  
47.50 Ridge bears N. W. and S. E. descend.  
50.25 Cross drain 8 lks. wide course N. W. ascend.  
66.00 Ridge bears N. W. and S. E. descend.  
68.00 Cross drain 9 lks. wide course N. W. and ascend along N. E. slope.  
80.06 The cor. of secs. 36, 37, 34 and 35.  
Land, mountainous.  
Soil, rocky; 4th. rate.  
No timber.  
Mountainous land 80.06 chs.

March 20, 1910.

March 21: At 8h. 00m. a.m., l.m.t., I set off  $34^{\circ} 33' N$  on the lat. arc;  $0^{\circ} 05' N$  on the decl. arc; and determine a meridian with the solar at the cor. of secs. 36, 37, 34 and 35

Thence I run  
N.  $0^{\circ} 01' W$ . bet. secs. 36 and 37  
Descending.  
Descend along Steep N. W. slope.  
9.00 Across flat.  
15.00 Ascend.  
28.50 Ridge bears N. W. and S. E. descend.  
30.70 Cross fence bears N. W. and S. E.  
32.30 Cross road bears E. and W.  
35.60 Cross wash 30 lks. wide course N. W.  
36.50 Cross wash 100 lks. wide course W. ascend.  
38.00 Set a malpais stone 18 x 12 x 6 ins. 12 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
40.00  
42.35 Cross road bears N. W. and S. E.  
44.00 Ridge bears E. and W. descend.  
46.30 Cross road bears E. and W.  
50.25 Cross wash 50 lks. wide course W.  
57.00 Cross wash 100 lks. wide course W. ascend.  
71.50 Ridge bears E. and W. descend.  
74.00 Cross drain 8 lks. wide course W. ascend.  
76.50 Ridge bears E. and W. descend.  
79.00 Cross drain 8 lks. wide course W. ascend.  
80.00 Set a malpais stone 24 x 10 x 6 ins. 18 ins. in the ground for cor. of secs. 32, 23, 26 and 27, marked with 2 notches on S. and E. edges; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
Land, mountainous.  
Soil, rocky; 4th. rate.  
No timber.  
Mountainous land 80.00 chs.

March 21, At this cor. I set off  $0^{\circ} 08' N$  on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is  $34^{\circ} 34' N$

N. 89° 56' E. on a random line bet. secs. 33 and 26  
40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
80.03 Intersect N. and S. line 5 lks. S. of the cor. of secs.



## Subdivision of Tp. 14 N. Rg. 7 W.

Chains	
	23, 24, 25 and 26.
	Thence I run
	S. 89° 54' W. on a true line bet. secs. 23 and 26
	Descending
9.00	Cross wash 50 lks. wide course N. W. ascend.
11.00	Ridge bears N. W. and S. E. descend.
14.00	Along in wash
22.00	Leave wash 20 lks. wide course S. W. ascend.
26.00	Ridge bears N. W. and S. E. descend.
40.01	Set a malpais stone 18 x 12 x 6 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
46.50	Cross wash 30 lks. wide course N. W. ascend.
70.00	Ridge bears N. W. and S. E. descend.
80.02	The cor. of secs. 22, 23, 26 and 27.
	Land, mountainous.
	Soil, rocky; 4th. rate.
	No timber.
	Mountainous land 80.02 chs.
	March 21, 1910.
	March 22: At 8h. 00m. a.m., l.m.t., I set off $34^{\circ}32'N$ on the lat. arc; $0^{\circ}28\frac{1}{2}'N$ 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. of the Tr.
	Thence I run
	N. $0^{\circ}02'$ W. bet. secs. 33 and 34
	Ascending steep slope.
11.50	Ridge bears E. and W. descend.
23.00	Cross wash 20 lks. wide course W. ascend.
31.00	Ridge bears N. E. and S. W. descend.
40.00	Set a granite stone 20 x 12 x 10 ins. 15 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
52.00	Cross drain 8 lks. wide course N. E.
56.50	Same drain course N. W.
71.00	Cross drain 8 lks. wide course N. E. same drain.
80.00	Set a granite stone 24 x 10 x 8 ins. 18 ins. in the ground for cor. of secs. 27, 28, 33 and 34, marked with 1 notch on S. and 3 notches on E. edges; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
	Land, mountainous.
	Soil, rocky; 4th. rate.
	No timber.
	Mountainous land 80.00 chs.
	March 22; At this cor. I set off $0^{\circ}33'N$ on the decl. arc; and observe the sun on the meridian at noon, the resulting lat. is $34^{\circ}33'N$ .
	East on a random line bet. secs. 27 and 34
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.10	Intersect N. and S. line 3 lks. N. of the cor. of secs. 26, 27, 34 and 35.
	Thence I run
	N. 89° 56' W. on a true line bet. secs. 27 and 34
	Along rough N. slope.
5.00	Descend very steep W. slope.
20.75	Cross Kirkland Creek 60 lks. wide clear running water, course N. and ascend very steep E. slope.
35.80	Change to N. slope of mountain.
40.05	Set a granite stone 18 x 12 x 8 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; dig pits 18 x 18 x 12 ins. E. and W. of stone 3 ft. dist; and

Subdivision of Tp. 14 N. Rg. 7 W.

Chains.

44.50 raise a mound of earth  $3\frac{1}{2}$  ft. base  $1\frac{1}{2}$  ft. high, N. of cor.  
 52.50 Cross wash 10 lks. wide course N. W.  
 74.00 Cross wash 15 lks. wide course N.  
 80.10 Cross wash 15 lks. wide course N. E.  
 The cor. of secs. 27, 28, 33 and 34.  
 Land, mountainous.  
 Soil, rocky and gravelly; 4th. rate.  
 No timber.  
 Mountainous land 80.10 chs.

March 23, 1910.

March 23: At 8h. oom. a.m., l.m.t., I set off  $34^{\circ} 33' N$  on the lat. arc;  $0^{\circ} 52' N$  on the decl. arc; and determine a meridian with the solar at the cor. of sec. 27, 28, 33 and 34

Thence I run  
 N.  $0^{\circ} 02' W$ . bet. secs. 27 and 28  
 Descending.

5.00 Cross wash 35 lks. wide course E.  
 10.00 Ridge bears E. and W. descend.  
 17.00 Ascend.  
 19.50 Ridge bears N. W. and S. E.  
 21.50 Cross drain 8 lks. wide course N. W. ascend.  
 24.50 Ridge bears N. W. and S. E. descend.  
 29.50 Cross drain 8 lks. wide course N. W. ascend.  
 33.25 Ridge bears N. W. and S. E. descend.  
 36.80 Schultz's house bears N.  $36^{\circ} E$ .  
 39.00 Set a malpais stone 20 x 8 x 6 ins. 15 ins. in the ground for witness  $\frac{1}{4}$  sec. cor., marked WCT on W. face; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high W. of cor. Pits impracticable.  
 40.00 Point for  $\frac{1}{4}$  sec. cor. falls in drain 10 lks. wide course N. W.  
 47.00 Cross Kirkland Creek 100 lks. wide course N. W. clear running water. and over level land through dense brush.  
 68.52 Cross fence bears N. W. and S. E.  
 80.00 Set a malpais stone 18 x 10 x 6 ins. 12 ins. in the ground for cor. of secs. 21, 22, 27 and 28, marked with 2 notches on S. and 3 notches on E. edges; from which  
 A mesquite 6 ins. diam., bears S.  $10^{\circ} E$ . 58 lks. dist., marked T14NR7WS27BT.  
 A mesquite 8 ins. diam., bears S.  $64\frac{1}{2}^{\circ} W$ . 49 lks. dist., marked T14NR7WS28BT.  
 A mesquite 6 ins. diam. bears N.  $37^{\circ} W$ . 109 lks. dist., marked T14NR7WS21BT.  
 No other tree available. In N. E. sec. dig a pit 18 x 18 x 12 ins.  $5\frac{1}{2}$  ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor.  
 Land, level and mountainous.  
 Soil, rocky and sandy loam; 1st. and 4th. rate.  
 No timber.  
 Undergrowth, mesquite and calclaw.  
 Mountainous land and land covered with dense undergrowth  
 80.00 chs.

March 23: At this cor. I set off  $0^{\circ} 55\frac{1}{2}' N$  on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is  $34^{\circ} 34' N$ .

40.00 S.  $89^{\circ} 56' E$ . on a random line bet. secs. 22 and 27.  
 79.96 Set temp.  $\frac{1}{4}$  sec. cor.  
 Intersect N. and S. line 7 lks. S. of the cor. of secs. 22, 23, 26 and 27  
 Thence I run  
 N.  $89^{\circ} 59' W$ . on a true line. bet. secs. 22 and 27

## Subdivision of Tp. 14 N. Rg. 7 W.

Chains. Ascending through dense brush.  
 0.60 Ridge bears N. and S. descend.  
 4.00 along drain 6 lks. wide course W.  
 13.00 Leave drain course S. W. ascend.  
 21.00 Ridge bears N. E. and S. W. descend.  
 39.98 Set a malpais stone 18 x 12 x 6 ins. 12 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on N. face; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high N. of cor. Pits impracticable.  
 43.00 Across small drains course S.  
 50.00 Leave drains and ascend.  
 52.00 Ridge bears N. and S. descend.  
 75.90 Cross road bears N. W. and S. E.  
 79.96 The cor. of secs. 31, 32, 37 and 38.  
 Land, rolling foot hills.  
 Soil, gravelly rocky, and sandy; 1st.; 3rd. and 4th. rate.  
 No timber.  
 Undergrowth, mesquite and catclaw.  
 Mountainous land and land covered with dense undergrowth  
 79.96 chs.

March 23, 1910.

March 24; At 8h. 00m. a.m., 1.m.t., I set off  $34^{\circ}32'N$ . on the lat. arc;  $1^{\circ}16'N$  on the decl. arc; and determine a meridian with the solar at the cor. of secs. 4, 5, 32 and 33 on the S. bdy. of the Tp.

Thence I run

N.  $0^{\circ}02'$  W. bet. secs. 32 and 33

Descend

6.50 Cross wash 15 lks. wide course S. W. ascend.  
 10.00 Ridge bears E. and W. descend.  
 15.00 Cross drain 6 lks. wide course W. ascend.  
 31.50 Top of rocky hill and descend.  
 40.00 Point for  $\frac{1}{4}$  sec. cor., falls in drain 8 lks. wide course N. E. so at.  
 41.00 Set a granite stone 18 x 10 x 8 ins. 12 ins. in the ground for witness  $\frac{1}{4}$  sec. cor., marked  $WC\frac{1}{4}$  on W. face; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
 64.40 Cross wash 35 lks. wide course N. W. and ascend.  
 80.00 Set a schist stone 20 x 12 x 4 ins. 15 ins. in the ground for cor. of secs. 28, 29, 32 and 33, marked with 1 notch on S. and 4 notches on E. edges; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
 Land, mountainous.  
 Soil, rocky; 4th. rate.  
 No timber.  
 Mountainous land 80.00 chs.  
 March 24: At this cor. I set off  $1^{\circ}19'N$  on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is  $34^{\circ}33'N$ .

East on a random line bet. secs. 28 and 33

40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 80.04 Intersect N. and S. line 5 lks. N. of the cor. of secs. 27, 28, 33 and 34.

Thence I run

N.  $89^{\circ}58'$  W. on a true line bet. secs. 28 and 33

Over rolling mountains in basin.

24.00 Cross wash 10 lks. wide course N. E.  
 28.00 Cross wash 30 lks. wide course N. E. and ascend steep N. E. slope.  
 40.00 Set a granite stone 18 x 10 x 6 ins. 12 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on N. face; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high N. of cor. Pits

## Subdivision of Tp. 14 N. Rg. 7 W.

chains.

impracticable.  
 45.50 Ridge bears N. and S. descend.  
 68.50 Cross wash 10 lks. wide course S. E. ascend.  
 80.04 The cor. of secs. 28, 29, 32 and 33.  
 Land, rough and mountainous.  
 Soil, rocky; 4th. rate.  
 No timber.  
 Mountainous land 80.04 chs.

March 24, 1910.

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March 25; At 8h. 00m. a.m., l.m.t., I set off  $34^{\circ}33'N$  on the lat. arc;  $1^{\circ}39\frac{1}{2}'N$  on the decl. arc; and determine a meridian with the solar at the cor. of secs. 28, 29, 32 and 33  
 Thence I run  
 N.  $0^{\circ}02'W$ . bet, secs. 28 and 29.  
 Descend.  
 0.00 Cross wash 15 lks. wide course S. E. ascend.  
 39.50 Top of high mountain and descend steep rough N. slope.  
 40.00 Set a granite stone 18 x 8 x 8 ins. 12 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
 46.50 Cross drain 4 lks. wide course N. W.  
 78.00 Cross drain 7 lks. wide course N. E.  
 80.00 Mark a cross on a granite rock in place 36 x 24 x 18 ins above ground for exact point for cor. of secs. 20, 21, 28 and 29 marked with 2 notches on S. and 4 notches on E. of cross; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
 Land, mountainous.  
 Soil, rocky; 4th. rate.  
 No timber.  
 Mountainous land 80.00 chs.  
 March 25; At this cor. I set off  $1^{\circ}42\frac{1}{2}'N$  on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is  $34^{\circ}34'N$ .

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S.  $89^{\circ}58'E$  on a random line bet. secs. 21 and 28  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 79.94 Intersect N. and S. line 12 lks. S. of the cor. of secs. 21, 22, 27 and 28  
 Thence I run  
 S.  $89^{\circ}57'W$  on a true line bet. secs. 21 and 28  
 Over level land through dense brush.  
 23.00 Cross Kirkland Creek 100 lks. wide course N. W. clear running water.  
 39.00 Ascend E. slope. Leave brush.  
 39.97 Set a malpais stone 30 x 14 x 6 ins. 15 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on N. face; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, N. of cor. Pits impracticable.  
 46.00 Ridge bears N. and S. descend.  
 63.25 Cross drain 7 lks. wide course N. ascend.  
 70.00 Ridge bears N. and S. descend.  
 78.25 Cross drain 8 lks. wide course N.  
 79.94 The cor. of secs. 20, 21, 28 and 29.  
 Land, level and mountainous.  
 Soil, rocky; 4th. rate.  
 No timber.  
 Undergrowth mesquite and paloverde.  
 Mountainous land and land covered with dense undergrowth  
 79.94 chs.

March 25, 1910.

## Subdivision of Tp. 14 N. Rg. 7 W.

Chains.

## GENERAL DESCRIPTION.

This township is extremely rough and mountainous and except for a narrow strip along Kirkland Creek in secs. 26, 27, and 35 the soil is rocky and worthless.

Kirkland Creek runs through a deep Canyon excepting in the secs. just mentioned, and this little strip in these secs. is the only agricultural land in the Tp.

There is no timber in the Tp. There is one settler in sec. 27. The remainder of this Tp. is extremely rough and worthless for agriculture and therefore I do not subdivide any more of the Tp.

*John P. Hesse*  
U.S. Deputy Surveyor.

LIST OF NAMES.

BOOK 2213

A list of the names of the individuals employed by John F. Hesse

United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the subdivision lines of T1. 14 N. Rg. 7 W.

showing the respective capacities in which they acted:

A. N. Oliver, Chairman.

A. E. Lyon, Chairman.

Moundman.

Moundman.

Axman.

Axman.

P. Larson, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted John F. Hesse

United States Deputy Surveyor, in surveying all those parts or portions of the subdivision lines of T1. 14 N. Rg. 7 W.

of the Gila and Salt River meridian, Territory of Arizona, which are represented

in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Arizona

A. N. Oliver, Chairman.

A. E. Lyon, Chairman.

Moundman.

Moundman.

Axman.

Axman.

P. Larson, Flagman.

Subscribed and sworn to before me this 25th day of March, 1910, 19

John F. Hesse

U.S. Deputy Surveyor



No notary available without loss of time and great expense.

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

BOOK 2213

I, John F. Hesse, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Frank S. Ingalls United States Surveyor General for Arizona, bearing date of the 4th day of June, 1909, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Arizona, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the subdivision lines of Tp. 14 N. Rg. 7 W.

of the Gila and Salt River meridian, in the Territory of Arizona, which are represented in the foregoing field notes as having been surveyed 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 United States 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.

John F. Hesse United States Deputy Surveyor.

Subscribed by said John F. Hesse, and sworn to before me } this 28th day of November, 1910

Frank S. Ingalls U.S. Dep. Genl for Arizona



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Ariz. Apr. 18, 1911

The foregoing field notes of the survey of the fragmentary subdivision of Tp. 14 N. Rg. 7 W. of the Gila and Salt River Base and Meridian, Arizona

executed by John F. Hesse U.S. Dep. Sur. under his contract No. 158, dated June 4, 1909 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. Ingalls United States 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.

United States Surveyor General.