

Plans 7/24/11

FEB 6-1911

92

Book E.

2235

Accepted, L. E. G.  
July 19, 1912

2235

BOOK 2235

# FIELD NOTES

OF THE SURVEY OF THE

North and West Boundaries of Tp. 9 S. Rg. 19 W.

2235

2235

Of the Gila and Salt River Meridian,

Territory of Arizona.

AS SURVEYED BY

John E. Hease

Transitman

United States Deputy Surveyor,

Under his <sup>Group</sup> ~~Contract~~ No. 1, dated August 25, 1910

Survey commenced December 31, 1910, 19

Survey completed December 30, 1910, 19

2235

2235

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93.

BOOK 2235

NAMES AND DUTIES OF ASSISTANTS.

A. N. Oliver Chainman

A. E. Lyon Chainman

J. H. Bates Moundman

A. E. Beaumont Axman

T. C. Carroll Axman

R. A. Coombs Flagman

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BOOK 2235

# INDEX DIAGRAM.

Township 9 S, Range 19 W

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Meanders Page .....

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 North and West boundaries of Tp. 9 S. Rg. 19 W.

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

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



John P. Hesse, U.S. Transitman

WE, I. J. H. Bates 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 my skill and ability, in the survey of the North and West boundaries of Tp. 9 S. Rg. 19 W.

I. J. H. Bates, Moundman.

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



John P. Hesse, U.S. Transitman

WE, A. E. Beaumont and T. C. Carroll 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 the north and west boundaries of Tp. 9 S. Rg. 19 W.

A. E. Beaumont, Axman.
T. C. Carroll, Axman.

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



John P. Hesse, U.S. Transitman

I, R. A. Coombs, 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 north and west boundaries of Tp. 9 S. Rg. 19 W.

R. A. Coombs, Flagman.

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



John P. Hesse, U.S. Transitman

West boundary of Tr. 9 S. Rg. 19 W.

Chains	
	<p>Survey commenced December 21, 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 declination arcs.</p> <p>The instrument was examined and approved by the supervising surveyor for Arizona.</p> <p>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:</p> <p>At my camp which is located near the center of Tr. 9 S. Rg. 19 W.; latitude 32° 38' 14" N., longitude 114° 10' 33" W.: At 7h. 15m. a.m., l.m.t., I set off 32° 38' N. on the lat. arc; 33° 15½' S. on the decl. arc; and, at my station at the S. end of the meridian established December 20, by observation of Polaris at western elongation, determine a meridian with the solar and mark a point thereof on the stone set December 19, 5 chs. N. of my station. This mark falls 0.4 ins. W. of the meridian.</p> <p>At 4h. 45m. p.m., l.m.t., I set off 32° 38' N. on the lat. arc; 33° 16' S. on the decl. arc; and determine with the solar a meridian at my station at the S. end of the meridian established December 20, by observation of Polaris at western elongation, and mark a point thereof by cutting a small groove in the stone set December 19, this mark falls 0.3 ins. east of the meridian established by the Polaris observation.</p> <p>The solar apparatus, by a.m., and p.m., observations, defines positions for meridians, respectively about 0' 21" west and 0' 16" east of the meridian established by the Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory.</p> <p>The magnetic bearing of the true meridian, at 7h. 30m. a.m., is N. 14° 30' W.; the angle thus determined gives the mag. decl. 14° 30' E.</p> <p>At 1h. 00m. p.m., l.m.t., I set off 32° 38½' N. on the lat. arc; 33° 25½' S. on the decl. arc.; and determine a meridian with the solar at the standard cor. of Tps. 9S. Rgs. 19 and 20 W. which I established December 21, Thence I run</p> <p>North bet. secs. 31 and 36</p> <p>Ascending along W. slope of rocky ridge through dense brush,</p> <p>3.00 Top of spur extends W. and descend along W. slope</p> <p>15.00 Enter wash 50 lks. wide bears S. W. and along in same to</p> <p>37.00 Leave wash course N. E. and ascend rough E. slope of rocky ridge,</p> <p>40.00 Set an iron post 3 ft. long, 1 in. diam. 26 ins. in the ground for ¼ sec. cor., marked on brass cap ¼ S36 in W. and S31 in E. half; and raise a mound of stone 2 ft. base 1½ ft. high, W. of cor. No bearings available, pits impracticable.</p> <p>46.75 Cross wash 15 lks. wide course N. E.</p> <p>48.00 Cross wash 15 lks. wide course N. E.</p> <p>53.00 Ridge bears E. and W.</p> <p>57.00 Cross wash 15 lks. wide course N. E.</p> <p>63.00 Ridge bears E. and W.</p> <p>65.50 Cross wash 15 lks. wide course N. E.</p> <p>70.00 Ridge bears E. and W.</p> <p>80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 25, 30, 31 and 36, marked on brass cap</p> <p>T9S in N. half</p> <p>R20WS25 in N. W.</p> <p>R19WS30 in N. E.</p>

West boundary of Tr. 9 S. Rg. 19 W.

Chains. S31 in S. E. and  
S36 in S. W. quadrants; and raise a mound of stone 2 ft.  
base 1½ ft. high, W. of cor. No bearings available, pits  
impracticable.  
Land, rough and hilly.  
Soil, rocky and worthless; 4th. rate, no grass.  
Undergrowth, greasewood and chico.

North bet. secs. 25 and 30

Over nearly level rocky land.  
22.50 Descend along steep N. W. slope.  
37.00 Over level land.  
40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the  
ground for ¼ sec. cor., marked on brass cap S25 in W.  
and S30 in E. half; and raise a mound of stone 2 ft. base  
1½ ft. high, W. of cor. No bearings available, pits  
impracticable.  
41.50 Cross wash 40 lks. wide course N. E.  
55.00 Cross same wash course N. W.  
74.00 Cross same wash course N. E.  
80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in  
the ground for cor. of secs. 19, 24, 25 and 30, marked  
on brass cap  
T9S in N. half  
R20WS24 in N. W.  
R19WS19 in N. E.  
S30 in S. E. and  
S25 in S. W. quadrants; and raise a mound of stone 2 ft.  
base 1½ ft. high, W. of cor. No bearings available, pits  
impracticable.  
Land, nearly level.  
Soil; rocky and worthless; 4th. rate, no grass.  
Undergrowth greasewood and paloverde.

December 21, 1910.

December 22: At 8h. 00m. a.m., l.m.t., I set off 32° 37½'  
N. on the lat. arc; 23° 23½' S. on the decl. arc; and  
determine a meridian with the solar at the cor. of secs.  
19, 24, 25 and 30.

Thence I run

North bet. secs. 19 and 24  
Over level rocky land through dense brush.  
5.15 Cross wash 40 lks. wide course N. W.  
8.00 Spur runs W.  
18.25 Cross wash 40 lks. wide course N. E.  
20.50 Cross wash 40 lks. wide course N. W.  
27.50 Ascend S. W. slope  
29.00 Ridge bears N. W. and S. E. and descend N. E. slope.  
40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the  
ground for ¼ sec. cor., marked on brass cap S24 on W.  
and S19 on E. half; and raise a mound of stone 2 ft. base  
1½ ft. high, W. of cor. No bearings available, pits  
impracticable.  
61.00 Cross wash 50 lks. wide course N. W.  
70.00 Cross same wash 50 lks. wide course N. E.  
80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in  
the ground for cor. of secs. 13, 18, 19 and 24, marked  
on brass cap  
T9S in N. half  
R20WS13 in N. W.  
R19WS18 in N. E.  
S19 in S. E. and  
S24 in S. W. quadrants; and raise a mound of stone 2 ft.  
base 1½ ft. high, W. of cor. No bearings available, pits

West boundary of Tp. 9 S. Rg. 19 W.

Chains.	<p>impracticable.  Land, rolling and level.  Soil, rocky and worthless; 4th. rate, no grass.  No timber.  Undergrowth, greasewood, paloverde and ironwood.</p>
	6
40.00	<p>North bet. secs. 13 and 18  Over level rocky land, through dense brush  Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for <math>\frac{1}{4}</math> sec. cor., marked on brass cap <math>\frac{1}{4}</math> S13 in W. and S18 in E. half; and raise a mound of stone 3 ft. base <math>1\frac{1}{2}</math> ft. high, W. of cor. No bearings available, pits impracticable.</p>
59.00	Cross wash 50 lks. wide course N. E.
80.00	<p>Set an iron post 3 ft. long 3 ins. diam., 24 ins. in the ground for cor. of secs. 7, 12, 13 and 18, marked on brass cap  T9S in N. half  R20WS12 in N. W.  R19WS7 in N. E.  S18 in S. E. and  S13 in S. W. quadrants; and raise a mound of stone 2 ft. base <math>1\frac{1}{2}</math> ft. high, W. of cor. No bearings available, pits impracticable.  Land, rolling and level.  Soil, rocky and worthless; 4th. rate, no grass.  No timber.  Undergrowth, greasewood, paloverde and ironwood.  December 23: At this cor. I set off <math>23^{\circ} 25\frac{1}{2}'</math> S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is <math>32^{\circ} 39'</math> N.</p>
	6
9.00	<p>North bet. secs. 7 and 12  Over rolling rocky land, through dense brush.  Cross wash 10 lks. wide course N. E.</p>
14.30	Cross wash 30 lks. wide course N. E.
18.00	Ridge bears N. E. and S. W.
25.00	Cross wash 20 lks. wide course N. E.
40.00	<p>Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for <math>\frac{1}{4}</math> sec. cor., marked on brass cap <math>\frac{1}{4}</math> S12 in W. and S7 in E. half; and raise a mound of stone 2 ft. base <math>1\frac{1}{2}</math> ft. high, W. of cor. No bearings available, pits impracticable.</p>
57.50	ascend and over mesa land.
80.00	<p>Set an Iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 1, 6, 7 and 12, marked on brass cap  T9S in N. half  R20WS1 in N. W.  R19WS6 in N. E.  S7 in S. E. and  S12 in S. W. quadrants; and raise a mound of stone 2 ft. base <math>1\frac{1}{2}</math> ft. high, W. of cor. Pits impracticable, no bearings available.  Land, rolling and level.  Soil, rocky and worthless, 4th rate. No grass. No timber.  Undergrowth, greasewood, palo verde and ironwood.</p>
	6
7.00	<p>North bet. secs. 1 and 6  Over level land through dense brush.  Descend from mesa.</p>
29.60	Telegraph line bears E. and W.
30.25	Cross Southern Pacific Railway, bears E. and W.
30.89	Telegraph line bears E. and W.
40.00	<p>Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for <math>\frac{1}{4}</math> sec. cor., marked on brass cap <math>\frac{1}{4}</math> S1 in</p>

## West boundary of Tr. 9 S. Rg. 19 W.

Chains.	W. and S6 in E. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth 3½ ft. base 1½ ft. high, W. of cor. No bearings available.
44.95	Cross road bears E. and W.
53.90	Left bank of Gila River and over dry bed of River.
70.50	Right bank of Gila River.
80.00	Set an iron post 3 ft. long 3 ins. diam., 24 ins. in the ground for cor. of Tps. 8 and 9 S. Rgs. 19 and 20 W. marked on brass cap
	T 88 in N.
	R19W in E.
	T9S in S., and
	R20W in W. half;
	S36 in N. W.
	S31 in N. E.
	S6 in S. E. and
	S11 in SW. quadrant;
	dig pits 24 x 24 x 12 ins. on each line, N. E. and W. 4 ft. and S. of post 8 ft. dist; and raise a mound of earth, 5½ ft. base 2½ ft. high, S. of cor. No bearings available.
	Land, level.
	Soil; S. 53.90 chs. rocky and worthless; 4th. rate, no grass: middle 16.60 chs. dry sand in bed of Gila River: N. 9.50 chs. level bottom land; fine sandy loam, rich and dry over 2 ft. deep; no grass.
	Undergrowth, greasewood, paloverde, mesquite and water note.

December 22, 1910.



## North boundary of Tp. 9 S. Rg. 19 W.

Chains.	December 23: At 8h. 00m. a.m., l.m.t., I set off $23^{\circ} 23\frac{1}{2}'$ S. on the decl. arc; $32^{\circ} 41'$ N. on the lat. arc; and determine a meridian with the solar at the cor. of Tps. 8 and 9 S. Rgs. 18 and 19 W. Thence I run West on a random line, along the N. bdy. of Tp. 9 S. Rg. 19 W., setting temp. $\frac{1}{4}$ sec. and sec. cors. at intervals of 40.00 chs. and at 475.91 chs. intersect W. bdy. of the Tp. 12 lks. N. of the cor. of Tps. 8 and 9 S. Rgs. 19 and 20 W. previously described. The falling answers to a correction of $0^{\circ} 01'$ or 2 lks. N. per mile counting from the N. E. cor. of the Tp.
	December 23 & 24, 1910
	December 26: At 8h. 00m. a.m., l.m.t., I set off $32^{\circ} 41'$ N. on the lat. arc; $23^{\circ} 20'$ S. on the decl. arc; and determine a meridian with the solar at the cor. of Tps. 8 and 9 S. Rgs. 19 and 20 W. previously described. Thence I run N. $89^{\circ} 59'$ E. marking and blazing true line, bet. secs. 6 and 7 Over level land through very dense willow and water mote brush.
29.60	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for witness $\frac{1}{4}$ sec. cor., marked on brass cap WC $\frac{1}{4}$ in E. half S31 in N. W. and S6 in S. W. quadrants; dig pits 18 x 18 x 12 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. No bearings available.
30.50	Right bank of Gila River and over dry bed of river.
35.91	Point for $\frac{1}{4}$ sec. cor. falls in bed of river.
68.40	Left bank of Gila River
75.91	Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 31 and 32, marked on brass cap T88 in N S5, S6, T9S in S. and R19W in W. half: S31 in N. W. and S32 in N. E. quadrants; dig pits 24 x 24 x 12 ins. in each sec. 6 ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, N. of cor. No bearings available. Land, level. Soil, middle 37.90 chs. dry bed of Gila River; dry sand worthless; rest of mile rich sandy loam; over 2 ft. deep, fine texture dry; no grass. No timber. Undergrowth, mesquite and arrow brush and willows.
	N. $89^{\circ} 59'$ E. on S. bdy. of secs. 32 Over level land through very dense brush.
10.20	Left bank of Gila River and over dry bed of river.
16.50	Left bank of Gila River
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 $\frac{1}{4}$ S32 in N. and S5 in S. half; dig pits 18 x 18 x 12 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. No bearings available.
80.00	Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor of secs. 32 and 33, marked on brass cap T8S in N. S4, S5, T9S in S. and R19W in W. half; S32 in N. W. and S33 in N. E. quadrants; dig pits 24 x 24 x 12 ins. in each sec. 6 ft. dist.; and raise a mound of earth 4 ft.

## North boundary of Tn. 9 S. Rg. 19 W.

Chains.	
	base 2 ft. high, N. of cor. No bearings available. Land, level. Soil; fine sandy loam, over two ft. deep; except in bed of river which is dry loose sand and worthless; no grass No timber. Undergrowth, water mote and willows and arrow.
40.00	N. 89° 59' E. on S. bdy. sec. 33 . Over level land through very dense brush. 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 $\frac{1}{4}$ S33 in N. and S4 in S. half; dig pits 18 x 18 x 12 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. No bearings available.
80.00	Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 33 and 34, marked on brass cap T8S in N. S3, S4, T9S in S. and R19W in W. half; S23 in N. W. and S34 in N. E. quadrants; dig pits 24 x 24 x 12 ins. in each sec. 6 ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, N. of cor. No bearings available. Land, level. Soil, rich sandy loam, over 2 ft. deep, fine texture, dry; no grass. No timber. Undergrowth; mesquite, arrow and water mote. 80.00 December 26: At this cor. I set off 23° 22' S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 32° 41' N. ✓
40.00	N. 89° 59' E. on S. bdy. of sec. 34. . Over level land through very dense brush. 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 $\frac{1}{4}$ S34 in N. and S3 in S. half; dig pits 18 x 18 x 12 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. No bearings available.
80.00	Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 34 and 35, marked on brass cap T8S in N. S2, S3, T9S in S. and R19W in W. half; S34 in N. W. and S35 in NE.W. quadrants; dig pits 24 x 24 x 12 ins. in each sec. 6 ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high, N. of cor. No bearings available. Land, level. Soil; rich sandy loam, over 2 ft. deep, fine texture, dry; no grass. No timber. Undergrowth; mesquite, arrow and water mote.
	N. 89° 59' E. on S. bdy. of sec. 35 . Over level land through dense brush.

## North boundary of Tp. 9 S. Rg. 19 W.

Chains.	
16.42	Cross rail fence bears N. and S.
34.50	Cross rail fence bears N. and S.
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 $\frac{1}{8}$ s35 in N. and S2 in S. half; dig pits 18 x 18 x 12 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. No bearings available.
71.00	Cross road bears N. E. and S. W.
73.51	N. E. cor. of corral.
80.00	Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 35 and 36, marked on brass cap T8S in N. S1, S2, T9S in S. and R19W in W. half; S35 in N. W. and S36 in N. E. quadrants; dig pits 24 x 24 x 12 ins. in each sec. 6 ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, N. of cor. No bearings available. Land, level. Soil; rich sandy loam, over 2 ft. deep, fine texture, dry; no grass. No timber. Undergrowth; mesquite, arrow and chico.
	N. 89° 59' E. on S. bdy. of sec. 36 Over level land through dense brush.
23.50	Cross wash 20 lks. wide course N. E.
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, $\frac{1}{8}$ s36 in N. and S1 in S. half; dig pits 18 x 18 x 12 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. No bearings available.
42.50	A. J. Phelps house bears S. 5.00 chs. dist.
78.00	Leydendecker's house bears N. 5.00 chs. dist.
80.00	The cor. of Tps. 8 and 9 S. Rgs. 18 and 19 W. and as the cor. is poorly established I destroy it and reestablish it in the same place as follows: Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of Tps. 8 and 9 S. Rgs. 18 and 19 W., marked on brass cap T8S in N. R18W in E. T9S in S., and R19W in W. half: S36 in N. W. S31 in N. E. S6 in S. E., and S1 in S. W. quadrant; dig pits 24 x 24 x 12 ins. on each line, N., E., and W., 4 ft. and S. of post 8 ft. dist.; and raise a mound of earth 5 ft. base, $2\frac{1}{2}$ ft. high, S. of cor. No bearings available. Land, level. Soil, rich sandy loam, over 2 ft. deep, fine texture, dry; no grass. No timber. Undergrowth; mesquite, arrow and chico brush.

December 26, 1910.

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N. bdy. of T<sub>9</sub> S. R<sub>19</sub> W.

Chains.

Boundaries of T<sub>9</sub> S. R<sub>19</sub> W.

Latitude, departures, and closing errors.

Line designated	True bearing	Distance	Latitudes		Departures	
			N.	S.	E.	W.
2 <sup>nd</sup> Stand. Pat. N.	West.	480.00				480.00
W. bdy. T <sub>9</sub> S. R <sub>19</sub> W.	North	480.00	480.00			
N. bdy. T <sub>9</sub> S. R <sub>19</sub> W.	N89°59'E	475.91	14		475.91	
E. bdy. T <sub>9</sub> S. R <sub>19</sub> W.	S0°28'E	80.03		80.03	.66	
	S0°31'E	39.95		39.95	.36	
	S0°28'E	40.02		40.02	.32	
	S0°26'E	39.97		39.97	.30	
	S0°30'E	40.01		40.01	.35	
	S0°28'E	159.98		159.98	1.28	
	S0°24'E	40.06		40.06	.28	
	S0°09'E	40.02		40.02	.10	
Convergency					.47	
Totals			480.14	480.04	480.07	480.00
Error in lat.			480.04		480.07	480.00
			.10	Errors	.07	.00

GENERAL DESCRIPTION.

This township is level excepting in the extreme S. E. and S. W. corners which are hilly. There is no water in the township. The soil in the northern and eastern parts of the township is very fertile.

*John P. Hesse*  
U. S. Transitman.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

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LIST OF NAMES.

BOOK 2235

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

Transitman  
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 north

and west boundaries of Tp. 9 S. Rg. 19 W.

showing the respective capacities in which they acted:

A. N. Oliver, Chainman.

A. E. Lyon, Chainman.

J. H. Bates, Moundman.

A. E. Beaumont, Moundman.

A. E. Beaumont, Axman.

T. C. Carroll, Axman.

R. A. Coombs, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted John F. Hesse

Transitman  
United States ~~Deputy Surveyor~~, in surveying all

those parts or portions of the the north and west boundaries of Tp. 9 S. Rg. 19

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, Chainman.

A. E. Lyon, Chainman.

J. H. Bates, Moundman.

A. E. Beaumont, Moundman.

A. E. Beaumont, Axman.

T. C. Carroll, Axman.

R. A. Coombs, Flagman.

Subscribed and sworn to before me this 26th.

day of December, 1910., 19

John F. Hesse

U. S. Transitman



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

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10  
BOOK 2235

I, John F. Hesse, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from United States Surveyor General for Arizona, bearing date of the day of January, 1911, 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 north and west boundaries of Tp. 9 S. Rg. 19 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.  
Transitman

Subscribed by said John F. Hesse, and sworn to before me }  
this 28th day of January, 1911



March S. Ingalls  
U.S. Charge Clerk

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Ariz. April 17, 1911

The foregoing field notes of the survey of the North and West Boundaries of Tp. 9 S. Rg. 19 W. Gila and Salt River Base Meridian, Arizona

executed by John F. Hesse U.S. Transitman  
under his contract No. 1, dated August 25, 1910, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

March S. Ingalls  
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in Arizona, has been correctly copied from the original notes on file in this office.

United States Surveyor General.