

2064

BOOK 2064

# FIELD NOTES

2064

OF THE SURVEY OF THE

2064

*South and West boundaries of Twp. 8 N.  
Rg. 10 E.*

2064

Of the *Gila and Salt River* Meridian,  
*Territory of Arizona*

AS SURVEYED BY

*John J. Fisher*, United States Deputy Surveyor,

Under his Contract No. *120*, dated *June 17*, *1904*

Survey commenced *October 19, 1904*, *189*

Survey completed *October 21, 1904*, *189*

2064

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NAMES AND DUTIES OF ASSISTANTS.

W. W. Oliver	Chairman
E. O. Hemenway	Chairman
A. A. Snyder	Assn
W. H. Post	Assn
Joseph Groves	Plagman

# INDEX DIAGRAM.

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PRELIMINARY OATHS OF ASSISTANTS.

WE, W. W. Oliver and E. O. Hemenway  
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over 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 South and West boundaries of Tp. 8 N. Rg. 10 E.

W. W. Oliver, Chainman.  
E. O. Hemenway, Chainman.

Subscribed and sworn to before me this 19  
day of October 1904, 189



My commission expires  
May 9, 1908

J. J. Fisher  
Notary Public

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 \_\_\_\_\_, 189



WE, A. A. Snyder and W. H. Port

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 South and West boundaries of Tp. 8 N. Rg. 10 E.

A. A. Snyder, Axman.  
W. H. Port, Axman.

Subscribed and sworn to before me this 19  
day of October 1904, 189



My commission expires  
May 19, 1908

J. J. Fisher  
Notary Public

I, Joseph Groves, 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 South and West boundaries of Tp. 8 N. Rg. 10 E.

Joseph Groves, Flagman.

Subscribed and sworn to before me this 19  
day of October 1904, 189



My commission expires  
May 9, 1908

J. J. Fisher  
Notary Public

South Boundary of T 8 N., R. 10 E.

Chains

Survey commenced October 19th, 1904, and executed with an L.E. Gurley Light Mountain Transit with solar attachment. Transit not numbered. 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 lat. 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 examined the attachments 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 the true meridian determined by observation on Polaris, I proceed as follows:

At the corner of Tps. 7 and 8 N. Rs. 10 and 11 E. lat.  $33^{\circ} 59' 14''$  N., long.  $111^{\circ} 14' 49''$  W., at 5 hrs. 0 min P.M. l.m.t. I set off  $33^{\circ} 59'$  N. on the lat. arc  $10^{\circ} 2'$  S. on the decl. arc, and determine a meridian with the solar, and mark a point thereof on a stone set firmly in the ground 5 chs. N of the cor.

October 19th.

October 20th.

At 5 hrs. 24 mins. A.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 plug driven in the ground 5 chs. N. of my station.

At 6 hrs. 30 mins. A.M. l.m.t. I lay off the azimuth of Polaris,  $1^{\circ} 27'$  to the E. and mark the meridian thus determined, by cutting a small groove in the stone set October 19th, on which the true meridian coincides with the meridian established by the solar.

South Boundary of T 8 N . . R 10 E.

Chains

At 7 hrs. 0 mins. A.M. 1.m.t. I set off 33° 59'N. on the lat. arc 10° 14-1/2' S. on the decl. arc, and mark a point in the meridian determined with the solar, by a + 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 observation; therefore I conclude the adjustments of the instrument are satisfactory. The mag. brg' of the true meridian at 7 A.M. is N 14°W The angle thus determined gives the mean mag. decl. 14° E.

From the cor. of Tps. 7 and 8 N. Rs. 10 and 11 E. previously described, I now run

W. bet. Secs. 1 and 36.

Over rough broken mountains.

22.00 Cross wash 20 lks. wide in bottom of canyon, course S.

40.00 Set a slate stone 26 x 8 x 4 ins. 19 ins. in the ground, for 1/4 sec. cor. marked 1/4 on N face, and raise a mound of stone 2 ft. base 1-1/2 ft. high W of cor.

Pits impracticable.

42.25 Cross gulch 10 lks. wide, course N W .

68.00 Cross gulch 15 lks. wide, course N W .

72.00 Descend into Tonto Creek Canyon.

80.00 The point for sec. cor. falls on steep shaly slope of canyon wall where it would be impossible to perpetuate it in a permanent manner; therefore, at 81.00

83.36 Point for witness cor. to sec. cor. falls on a rock in place 10 x 6 x 4 feet above ground. I mark a cross (+) for exact point for witness sec. cor. ,with 1 groove on E. and 5 grooves W. and W.C. on W. faces, for witness cor. to cor. of Secs. 1,2,35 and 36, and raise a mound of stone 2 ft. base 1-1/2 ft. high W. of cor. Pits impracticable.

Land, mountainous;

South Boundary of T 8 N. R. 10 E.

Chains	<p>Soil, rocky, 4th rate;          No timber;          Mountainous land, 80 chs.</p> <hr/>
	<p>West bet. Secs. 35 and 2.</p>
	<p>From true point for cor.</p>
3.36	<p>The witness cor. of Secs. 1, 2, 35 and 36.</p>
6.36	<p>To left bank Tonto Creek, course S.</p>
6.66	<p>W. bank Tonto Creek, and ascend west wall of canyon.</p>
	<p>Water 3 ft. deep.</p>
22.61	<p>Top and over rolling mountains, descending.</p>
34.60	<p>Cross wash 15 lks. wide, course S W .</p>
38.25	<p>Cross wash 20 lks wide, course S E.</p>
40.00	<p>Set a slate stone 18 x 10 x 3 ins. 12 ins. in the ground for 1/4 sec. cor. Marked 1/4 on N. face, and raise a mound of stone 2 ft. base 1-1/2 ft. high, N. of cor. Pits impracticable.</p>
59.25	<p>Cross dry creek 25 lks. wide, course S.E. and ascend over rolling mountain.</p>
61.50	<p>Road Globe to Payson brs. N and S.</p>
72.50	<p>Cross wash 15 lks. wide, course N.E.</p>
80.00	<p>Set a quartzite stone 24 x 10 x 8 ins. 18 ins. in the ground for cor. of Secs. 2, 3, 34 and 35. Marked with 2 notches on E. and 4 notches on W. faces, and raised a mound of stones , 2 ft. base, 1-1/2 ft. high W. of cor. Pits impracticable.</p>
	<p>Land, mountainous;          Soil, rocky, 4th rate;          No timber.          Mountainous land, 80 chs.</p> <hr/>

South Boundary of T 8 N ., R.10 E.

Chains

West between Sections 3 and 34.

Ascending over rolling mountain.

22.50 Cross gulch, 15 lks. wide, course S.

28.25 Cross gulch 20 lks. wide, course S.

36.30 Cross wash 30 lks. wide, course S.E.

40.00 Set a granite stone 36 x 12 x 9 ins. 27 ins. in the ground for 1/4 sec. cor. Marked 1/4 on N. face, and raise a mound of stone 2 ft. base 1-1/2 ft. high N. of cor. Pits impracticable.

80.00 Set a lava stone 20 x 10 x 8 ins. 15 ins. in the ground for cor. of Secs. 3,4,33 and 34. Marked with 3 notches on E. and W. edges. Raise a mound of stone 2 ft. base 1-1/2 ft. high W. of cor. Pits impracticable. From which

A cedar 6 ins. diam. brs. N. 23-1/2° W. 83 lks. dist. marked T 8 N R. 10 E, Sec. 33 B T .

A cedar 4 ins. in diam. brs. N. 76° E. 89 lks. dist. marked T 8 N R 10 E, Sec. 34 B T .

Land, mountainous;

Soil, rocky, 4th rate;

No timber;

Mountainous land, 80 chs.

October 20th.

At this cor. I set off <sup>10° 23' 8"</sup> ~~10° 14-1/2'~~ S. on the decl. line and observed the sun on the meridian at noon. The resulting lat. is 33° 59' N. ✓

West between Sections 33 and 4.

Over rolling mountainous country, ascending.

22.60 Cross wash 30 lks. wide, course S W .

37.65 Cross wash 20 lks. wide, course S.W.

40.00 Set a lava stone 24 x 14 x 12 ins. 18 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face and raised a mound of stones 2 ft. base 1-1/2 ft. high N. of cor. Pits impracticable.



South Boundary of T 8 N. R. 10 E.

Chains

80.00 Set a malpais stone 26 x 16 x 5 ins. 19 ins. in the ground for cor. of Secs. 4, 5, 32 and 33. Marked with 2 notches on W. and 4 notches on E. edges, raised a mound of stone 2 ft. base 1-1/2 ft. high W. of cor. Pits Impracticable.

Land, mountainous;

Soil rocky, 4th rate.

No timber.

Mountainous land, 80 chs.

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West between Sections 5 and 32.

Ascending over rolling mountains.

20.60 Cross wash 15 lks. wide, course S.

35.00 Cross wash 30 lks. wide, course S E.

40.00 Set a lava stone 20 x 8 x 5 ins. 15 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face. Raised a mound of stones 2 ft. base 1-1/2 ft. high, N. of cor. Pits impracticable.

49.00 Cross of wash 30 lks. wide, course S.

68.60 Cross gulch 25 lks wide, course N.E.

80.00 Set a granite stone 18 x 8 x 5 ins. 12 ins. in the ground for cor. of Secs. 5, 6, 31 and 32. Marked with 5 notches on E. and 1 Notch on W. faces. Raised a mound of stones 2 ft. base, 1-1/2 ft. high W. of cor. Pits impracticable.

Land, mountainous;

Soil, rocky, 4th rate;

No timber;

Mountainous land, 80 chs.

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West between Sections 6 and 31.

Ascending over rolling mountains.

10.25 Cross wash 15 lks. wide, course N.E.

16.50 Cross wash 25 lks wide, course S.E.

40.00 Set a slate stone 20 x 8 x 4 ins. 15 ins. in the

South Boundary of T 8 N., R. 10 E.

Chains

ground for 1/4 sec. cor. marked 1/4 on N. face; from which

a cedar 5 ins diam. brs. N. 68° E. 185 lks. dist. marked 1/4 S 31 B T .

No other tree available

Raised a mound of stone 2 ft. base 1-1/2 ft. high N. of cor. Pits impracticable.

54.75 Cross wash 30 lks. wide, course S.W.

65.50 Cross wash 20 lks wide, course S.W.

76.00 Cross wash 25 lks wide, course SE.

78.53 Set a porphyry stone 24 x 8 x 6 ins. 18 ins. in the ground for cor. of Tps. 7 and 8 N. Rs. 9 and 10 E.

Marked with 6 notches on Each edge , and 8 N on N E . 10 E on S E ., 7 N on S W ., and 9 E on N.W. faces.

Raised a mound of stones 2 ft. base 1-1/2 ft. high S. of cor. Pits impracticable.

Land , mountainous;

Soil, rocky, 4th rate;

No timber;

Mountainous land, 78.53 chs.

October 20th.

West Boundary of T. 8 N., R. 10 E.

Chains October 21st.

At 7 hrs. 0 min A.M. 1.m.t., I set off 33° 59' N. on the lat. arc 10° 36' S. on the decl. arc, and determined the meridian with the solar at the cor. of Tps. 7 and 8 N. Rs. 9 and 10 E. previously described. Thence I run

N. bet. Secs. 31 and 36.

Over rolling mountains along general E. slope.

5.10 Cross wash 25 lks. wide, course S .E.

40.00 Set a granite stone 30 x 12 x 10 ins. ~~26~~<sup>23</sup> ins. in the ground for 1/4 sec. cor. Marked 1/4 on W. face.

Raised a mound of stones 2 ft. base 1-1/2 ft. high W. of cor. Pits impracticable.

41.75 Cross gulch 20 lks. wide, course N.E.

43.00 Cross wash 25 lks. wide, course N..E.

74.75 Cross wash 20 lks. wide, course S.E.

80 00 Set a porphyry stone 20 x 6 x 6 ins. 15 ins. in the ground for cor. of Secs. 25, 30, 31 and 36. Marked with 1 notch on the S. and 5 notches on the N. edges. Raised a mound of stone 2 ft. base 1-1/2 ft. high W. of cor. Pits impracticable.

Land, mountainous;

Soil, rocky, 4th rate;

No timber.

Mountainous land 80 chs.

North between Sections 25 and 30.

Along general E. slope of rolling mountain.

40.00 Set a slate stone 20 x 10 x 4 ins. 15 ins. in the ground for 1/4 sec. cor. Marked 1/4 on the W. face; from which

A cedar tree 14 ins. in diam. brs. N. 36-1/2° E. 190 lks. dist. Marked 1/4 S 30 B T .

A cedar tree 14 ins. in diam. brs. N. 73-3/4° W. 139 lks. dist. Marked 1/4 S 25 B T .

66.00 Cross gulch 15 lks wide, course S E.

76.65 Top of mountain.

West Boundary of T 8 N., R 10 E.

Chains	
80.00	<p>Set a porphyry stone 24 x 10 x 8 ins. 18 ins. in the ground for cor. of Sec. 19, 24, 25 and 30. Marked with 2 notches on S. and 4 notches on N. edges; from which</p> <p>A cedar 4 ins. diam. brs. N. 66-1/2 ° W. 27 lks. dist. marked T 8 N R 9 E S 24 B T .</p> <p>A cedar 6 ins. in diam brs. N. 56° E . 51 lks. dist. marked T 8 N R 10 E. S 19 B T , and raised a mound of stones 2 ft base 1-1/2 ft. high W. of cor. Pits impracticable.</p> <p>No other trees available.</p> <p>Land, mountainous;</p> <p>Soil, rocky, 4th rate;</p> <p>Timber, a very few scattering cedars;</p> <p>Mountainous land, 80 chs.</p>
	<p>North between Sections 19 and 24.</p>
	<p>Descending rough N.E. slope of mountain.</p>
15.25	<p>Cross gulch, course N.E.</p>
32.50	<p>Cross gulch 30 lks. wide, course N.E.</p>
40.00	<p>Set a porphyry stone 24 x 10 x 8 ins. 18 ins. in the ground for 1/4 Sec. cor. Marked 1/4 on W. face, and raised a mound of stone 2 ft. base 1-1/2 ft. high W. of cor. Pits impracticable.</p>
80.00	<p>Set a lava stone 20 x 16 x 14 ins. 15 ins in the ground marked with 3 notches on N and S edges; from which</p> <p>An oak 4 ins. in diam. brs. S 39° W. 71. lks. dist. marked T 8 N R 9 E S 24 B T .</p> <p>No other trees available. Raised a mound of stone 2 ft. base, 1-1/2 ft. high W. of cor. Pits impracticable.</p> <p>Land, mountainous;</p> <p>Soil, rocky, 4th rate;</p> <p>No timber;</p> <p>Mountainous land, 80 chs.</p>

West Boundary of T 8 N., R 10 E.

Chains

October 21st.

At this cor. I set off 10° 44-1/2' S. on the decl. arc and observed the sun on the meridian at noon; the resulting lat. is 34° 2' 1/2'

North between Sections 13 and 18.

Along rolling E. slope of mountain.

5.40 Cross wash 30 lks. wide, course N E.

40.00 Set a granite stone 18 x 8 x 4 ins. 12 ins. in the ground for 1/4 sec. cor. Marked 1/4 on W. face, and raised a mound of stones 2 ft. base 1-1/2 ft. high W. of cor. Pits impracticable.

51.00 Cross gulch 12 lks. wide, course N.E.

80.00 Set a granite stone 18 x 10 x 4 ins. 12 ins. in the ground for cor. of Secs. 7, 12, 13 and 18. Marked with 4 notches on S. and 2 notches on N. edges. Raised a mound of stones 2 ft. base 1-1/2 ft. high W. of cor. Pits impracticable.

Land, mountainous;

Soil, rocky, 4th rate;

No timber;

Mountainous land, 80 chs.

North between Sections 7 and 12.

Along general E. slope of rolling mountains.

22.35 Cross dry creek 60 lks. wide, course N.E.

37.00 Cross gulch 12 lks. wide, course E.

40.00 Set a granite stone 14 x 10 x 4 ins. 11 ins. in the ground for 1/4 sec. cor. Marked 1/4 on W. face. Raised a mon. of stone 2 ft. base 1-1/2 ft. high W. of cor. Pits impracticable.

44.30 Cross wash 20 lks. wide, course E.

48.00 Cross wash 25 lks. wide, course E.

53.50 Cross wash 20 lks. wide, course E.

60.00 Cross wash 20 lks. wide, course N.E.

## West Boundary of T 8 N., R 10 E.

Chains

74.35 Cross wash 30 lks. wide, course N.E.

80.00 Set a granite stone 15 x 9 x 5 ins. 10 ins. in the ground for cor. of Secs. 1, 6, 7 and 12. Marked with 5 notches on S. and 1 notch on N. edges. Raised a mound of stones 2 ft. base 1-1/2 ft. high W. of cor. Pits impracticable.

Land, mountainous;

Soil, rocky, 4th rate;

No timber;

Mountainous land, 80 chs.

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North between Sections 1 and 6.

Along rolling general E. slope of mountains.

1.65 Cross wash 20 lks. wide, course E.

27.70 Cross wash, 30 lks. wide, course E.

40.00 Set a granite stone 16 x 12 x 5 ins. 12 ins. in the ground for 1/4 sec. cor. Marked 1/4 on W. face; from which

A cedar 4 ins. diam. brs. S 18-1/2° E. 71 lks. dist. Marked 1/4 S 6 B T .

A cedar 4 ins. in diam. brs. S. 57° W. 210 lks. dist. Marked 1/4 S 1 B T .

52.00 Cross wash 30 lks. wide, course N.E.

67.45 Cross wash 25 lks. wide, course N.E.

79.05 Intersect second standard parallel N. 18.25 chs. W. of standard corner of Tp. 9 N. Rs. 9 and 10 E. and set a lime stone 24 x 14 x 14 <sup>ins. set 18 ins. in the ground,</sup> for closing cor. of Tps. 8 N Rs. 9 and 10 E. marked with 6 grooves on E., W. and S. and C.C. on S faces; from which

A cedar 5 ins. in diam. brs. S. 23-1/2° E. 243 lks. dist., marked C.C. T 8 N R 10 E S 6 B T .

A cedar 8 ins. <sup>diam.</sup> brs. S. 66-1/4° W. 233 lks. dist, marked C.C. T 8 N R 9 E S 1 B T .

Land, mountainous;

Soil, rocky, 4th rate;

Timber, a few cedars.

Chains

Mountainous land, 79.05 chs.

October 21st, 1904.

*Boundaries of T 8 N R 10 E*

*Latitudes, departures and closing errors.*

Line designated	True Bearings	Distance	Latitudes		Departures		
			N	S	E.	W.	
E. ldy T 8 N R 10 E	North	480	480.00				
2 <sup>nd</sup> ldy R. N. R 10 E	West	478.28				478.28	
W. ldy T 8 N R 10 E	South	479.05		479.05			
S. ldy T 8 N R 10 E	East	478.53			478.53		
Convergence						.47	
			480.00	479.05	478.53	478.75	
			479.05			478.53	
		Err in Lat -	.95 ✓			Err in dep -	.22 ✓

This Township is mountainous in all portions and contains no timber.

The Township is valuable for grazing purposes.

The eastern portion of the Township is watered by Tonto Creek.

The Tosnwhip should be subdivided.

*John J. Fisher*  
U.S. Deputy Surveyor.

October 21, 1904.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

(12)

LIST OF NAMES.

A list of the names of the individuals employed by

*John J. Fisher*

....., 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 South and West boundaries of Twp. 8 N. Rg. 10 E.*

showing the respective capacities in which they acted:

*W. W. Oliver* ..... Chainman.

*E. O. Hemenway* ..... Chainman.

..... Moundman.

..... Moundman.

*A. A. Snyder* ..... Axman.

*W. H. Post* ..... Axman.

*Joseph Groves* ..... Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted

*John J. Fisher*

....., United States Deputy Surveyor, in surveying all

those parts or portions of the

*South and West boundaries of Twp. 8 N. Rg. 10 E.*

..... 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*

*W. W. Oliver* ..... Chainman.

*E. O. Hemenway* ..... Chainman.

..... Moundman.

..... Moundman.

*A. A. Snyder* ..... Axman.

*W. H. Post* ..... Axman.

*Joseph Groves* ..... Flagman.

Subscribed and sworn to before me this *21*

day of *October 1904*, 18*0*



*J. J. Fisher*  
Notary Public

My commission expires  
May *27*, 190*6*.



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BOOK 2064

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, John J. Fisher 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 17 day of June 1904, 1894, 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 South and West boundaries of T. 8 N. R. 10 E.

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; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

John J. Fisher  
United States Deputy Surveyor.

Subscribed by said John J. Fisher, and sworn to before me }  
this 10<sup>th</sup> day of February 1905, 1895

Frank S. Ingalls  
U. S. Surveyor General  
for Arizona.



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona, May 1<sup>st</sup> 1905, 1895

The foregoing field notes of the survey of the South and West Boundaries of T. 8 N. R. 10 E. of the Gila and Salt River Base and Meridian in the Territory of Arizona

executed by John J. Fisher, U. S. Deputy Surveyor under his contract No. 120, dated June 17, 1904, 1894, 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.