

Book "I"

4-679.

Ordered filed, Sept. letter & <sup>8/1910</sup>  
Accepted, April 2 - <sup>1907</sup>  
146

2136

# FIELD NOTES

BOOK 2136

2136

Subdivisional and Meander lines  
T. 19 N. R 22 W

2136

2136

Of the *Gila and Salt River* Meridian,

AS SURVEYED BY

*John J. Ferber*

, United States Deputy Surveyor,

Under his Contract No. *128*, dated *March 14<sup>th</sup>*, 1905

Survey commenced *Jan 4<sup>th</sup>*, 1906

Survey completed *Jan 12<sup>th</sup>*, 1906

6-151

2136

2136

2136

177  
1A

NAMES AND DUTIES OF ASSISTANTS.

Henry R O Connor	Steward
Geo. W Cassidy	Steward
Henry R O Connor	Wardman
Geo W. Cassidy	Wardman
J. J. Murphy	Ax man
J. H. Rickels	Ax man
Irving O Auger	Flagman

148  
13

BOOK 2136

Book No. 2136

### INDEX DIAGRAM.

Township 19 N., Range 22 W.

6	5	4	10	8	9	2	8	1
7	8	9	10	10	9	11	7	12
18	17	16	15	6	14	5	13	5
19	20	21	22	4	23	4	24	4
30	29	28	27	3	26	2	25	2
31	32	33	34	3	2	1	36	1

Meanders Page 11-12

PRELIMINARY OATHS OF ASSISTANTS.

WE, Henry R O'Connor and Geo. W. Cassidy

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

Subdivisional and Meander lines T 19 N R 22 W

Henry R O'Connor, Chainman.

Geo. W. Cassidy, Chainman.

Subscribed and sworn to before me this 4<sup>th</sup>  
day of October, 18905



My commission expires  
May 9, 1908

J. J. Fisher  
Notary Public

WE, Henry R O'Connor and Geo W Cassidy

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

Subdivisional and Meander lines T. 19 N. R 22 W

Henry R O'Connor, Moundman.

Geo. W. Cassidy, Moundman.

Subscribed and sworn to before me this 4<sup>th</sup>  
day of October, 18905



My commission expires  
May 9, 1908

J. J. Fisher  
Notary Public

WE, J. J. Murphy and J. W. Ricketts

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

Subdivisional and Meander lines T. 19 N. R 22 W

J. J. Murphy, Axman.

J. W. Ricketts, Axman.

Subscribed and sworn to before me this 4<sup>th</sup>  
day of October, 18905



My commission expires  
May 9, 1908

J. J. Fisher  
Notary Public

I, Irving V. Auger, 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

Subdivisional and Meander lines T. 19 N. R 22 W

Irving V. Auger, Flagman.

Subscribed and sworn to before me this 4<sup>th</sup>  
day of October, 18905



My commission expires  
May 9, 1908

J. J. Fisher  
Notary Public

SUBDIVISIONS TOWNSHIP 19 NORTH, RANGE 22 WEST.

chains

Survey commenced January 4th, 1906 and executed with a W and L. E. Gurley Light Mountain Transit, not numbered with a Smith 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 lat and decl arc.

The instrument was examined, tested on the true meridian at Phoenix, found correct and was approved by the Surveyor General for Arizona, September 25th, 1905.

I examine the adjustment of the transit and correct the level and collimation errors. Then to test the Solar Apparatus by comparing its indications resulting from Solar observations, made during a.m. and p.m. hours with a true meridian determined by observations on Polaris, I proceed as follows:

January 4th. At the cor of Tps 18 and 19 N, Rs 21 and 22 W, previously established by me, I set off  $34^{\circ} 55' N$  on the lat arc,  $22^{\circ} 40' S$  on the decl arc and at 4h. p.m. l.m/t., I determine a true meridian with the Solar and mark a point thereof on the stone set January 1st. This mark falls 0.25 ins E of the meridian determined by Polaris observations on January 2nd.

January 4th, 1906.

January 5th, 1906.

At 8h. a.m. l.m.t., I set off  $34^{\circ} 55' N$  on the lat arc,  $22^{\circ} 36' S$  on the decl arc and determine a true meridian with the Solar and mark a point thereof by a cross on the stone already set, 5 chs N of my station. This mark falls 0.35 ins W of the true meridian established by polaris observations on January 2nd.

The Solar Apparatus by p.m. and a.m. observations defines position for true meridians respectively about  $0' 13'' E$  and  $0' 18'' W$  of the true meridian established by polaris observations. Therefore, I conclude the adjustments of the instruments are satisfactory.

The magnetic bearing of the true meridian at 8h.a.m. is  $N 15^{\circ} 15' W$ , which gives a magnetic decl of  $15^{\circ} 15' E$ .

At 8h.30m. a.m. l.m.t., I set off  $34^{\circ} 55' N$  on the lat arc,  $22^{\circ} 37' S$  on the decl arc and determine a true meridian at the cor of Secs 1, 2, 35 and 36.

Thence I run

North  $0^{\circ} 1' W$  bet Secs 35 and 36, over a level mesa country.

40.00 ✓ Set a lava stone, 16 x 6 x 6 ins, 12 ins in ground for  $\frac{1}{4}$  Sec cor, marked  $\frac{1}{4}$  on W face. Dig pits 18 x 18 x 12 ins, 3 ft N and S of cor. Raised mound of earth  $3\frac{1}{2}$  ft base,  $1\frac{1}{2}$  ft high W of cor. No trees or stones available.

80.00 ✓ Set a lava stone, 18 x 10 x 6 ins, 14 ins in ground for cor of Secs 25, 26, 35 and 36, stone marked 1 groove on S and E edges. Raised a mound of stones, 2 ft base  $1\frac{1}{2}$  ft high, W of cor. No trees, pits impracticable.

Soil, sandy loam, first rate.

Land, level, sloping to the S and W, covered with a slight growth of grease wood. Very little other vegetation.

Thence I run

East on a random line bet Secs 25 and 36, over level mesa country, sloping to the S and W.

40.00  
79.96 Set temporary  $\frac{1}{4}$  Sec cor  
Intersect range line at North 4 lks from cor of Secs 25, 30, 31 and 36.

Thence I run

North  $89^{\circ} 58' W$  bet Secs 25 and 36.

Descend

20.00  
39.98 Leave hills, enter mesa  
Set a lava stone, 16 x 8 x 8 ins, 18 ins in ground for

SUBDIVISIONS TOWNSHIPS 19, NORTH, RANGE 22 WEST.

chains

✓

79.96

for  $\frac{1}{4}$  Sec cor, marked  $\frac{1}{4}$  on N face. Raised mound of stones, 2 ft base,  $1\frac{1}{2}$  ft high, N of cor. No trees pits impracticable.

The cor of Secs 25, 26, 35 and 36.

Soil, sandy loam, first rate.

Land, 59.96 chs level mesa, sloping to the S and W covered with a slight growth of grease wood. Very little other vegetation.

At 12h. m. l.m.t., I set off  $22^{\circ} 38' S$  on the decl arc and observed the sun on the meridian at the cor of Secs 25, 26, 35 and 36, the resulting lat being  $34^{\circ} 56' N$ .

Thence I run

North  $0^{\circ} 1' W$  bet Secs 25 and 26, over a level mesa country, sloping to the S and W.

40.00

Set a lava stone, 16 x 8 x 6 ins, ~~12~~ ins in ground for  $\frac{1}{4}$  Sec cor, marked  $\frac{1}{4}$  on W face. Raised a mound of stones 2 ft base,  $1\frac{1}{2}$  ft high, W of cor.

80.00

Set a lava stone, 16 x 6 x 6 ins, ~~12~~ ins in ground for cor of Secs 23, 24, 25 and 26, stone marked, 1 groove on E and 2 grooves on S edges. No trees, pits impracticable.

*and raised a md of stone 2 ft base  $1\frac{1}{2}$  ft high W of cor.*  
Soil, sandy loam and gravelly, first and second rate.

Land level, gently falling to the S and W, covered with a slight growth of grease wood brush. Very little other vegetation.

Thence I run

South  $89^{\circ} 58' E$  on a random line bet Secs 24 and 25 over rough hilly country.

40.00

Set temporary  $\frac{1}{4}$  Sec cor

80.00

Intersect range line at 5 lks North of cor of Secs 19, 24, 25 and 30.

Thence I run

North  $89^{\circ} 56' W$  on a true line bet Secs 24 and 25 over high mesa country.

40.00

Set a lava stone, 18 x 10 x 6 ins, ~~12~~ ins in ground for  $\frac{1}{4}$  sec cor, marked  $\frac{1}{4}$  on N face. Raised a mound of stones, 2 ft base,  $1\frac{1}{2}$  ft high, N of cor.

46.00

Leave hills, descend into Mesa country.

80.00

The cor of Secs 23, 24, 25 and 26.

Soil, sandy loam, and gravelly, first and third rate.

Land, 34.00 chs level mesa country, 46.00 chs rough hilly country, covered with a slight growth of grease wood brush. Very little other vegetation.

January 5th, 1906.

January 6th, 1906.

At 8h. a.m.l.m.t., I set off  $34^{\circ} 55' N$  on the lat arc,  $22^{\circ} 29' S$  on the decl arc and determine a true meridian at the cor of Secs 2, 3, 34 and 35.

Thence I run

North  $0^{\circ} 1' W$  bet Secs 34 and 35, over level mesa country.

40.00

Set a lava stone, 16 x 8 x 6 ins, ~~12~~ ins in ground for  $\frac{1}{4}$  Sec cor, marked  $\frac{1}{4}$  on W face. Dig pits 18 x 18 x 12 ins, 3 ft N and S of cor. Raised mound of earth  $3\frac{1}{2}$  ft base,  $1\frac{1}{2}$  ft high, W of cor.

80.00

Set a granite stone, 16 x 8 x 4 ins, ~~12~~ ins in ground for cor of Secs 26, 27, 34 and 35, marked 1 groove on S and 2 grooves on E edges. Dig pits 18 x 18 x 12 ins  $5\frac{1}{2}$  ft dist from cor in 4 Secs. Raised mound of earth 4 ft base, 2 ft high, W of cor. No trees.

Soil, sandy loam, first rate.

Land, level, sloping to the S and W, covered with slight growth of grease wood brush.

Thence I run

East on a random line bet Secs 26 and 35, over level mesa country.

SUBDIVISIONS TOWNSHIP 19 NORTH, RANGE 22 WEST.

chains	
40.00	Set Temporary $\frac{1}{4}$ Sec cor.
79.92	Intersect Sec line at 7 lks South of cor of Secs 25, 26 35 and 36.
✓	Thence I run South $89^{\circ} 57'$ W on a true line bet Secs 26 and 35 over level mesa country.
39.96	Set a lava stone, 16 x 8 x 6 ins, <del>19</del> 18 ins in ground for $\frac{1}{4}$ Sec cor, marked $\frac{1}{4}$ on N face. Dig pits 18 x 18 x 12 ins 3 ft E and W of cor. Raised mound of earth $3\frac{1}{2}$ base $1\frac{1}{2}$ ft high N of cor. No trees nor stones. Stones for corners had to be hauled.
65.00	Cross road, course NW-SE
79.92	The cor of Secs 26, 27, 34 and 35. Soil, sandy loam, first rate. Land, level, sloping to the S and W, covered with slight growth of grease wood brush. Very little other vegetation.
-----	
	Thence I run West bet Secs 27 and 34
17.75	Cross fence, course N and S.
40.00	Set a lava stone, 16 x 6 x 6 ins, <del>12</del> 13 ins in ground for $\frac{1}{4}$ Sec cor, marked $\frac{1}{4}$ on N face. Dig pits 18 x 18 x 12 ins 3 ft E and W of cor. No trees nor stones. Raised mound of earth $3\frac{1}{2}$ ft base, $1\frac{1}{2}$ ft high, N of cor.
✓	
42.00	Intersect the E bdy Camp Mohave Indian Reservation at South $0^{\circ} 38' W$ , 222 lks from 4 mile stone. <i>as recently established by Hed Legma</i>
✓	Set a lava stone, 24 x 10 x 8 ins, 18 ins in ground for closing cor, marked C.C. on E, 1 groove on S and 5 grooves on N edges and C.M.I.R. on W face. Raised a mound of stone 2 ft base, $1\frac{1}{2}$ ft high, E of cor. Soil, sandy loam, first rate. Land, level, sloping to the S and W, covered with slight growth of grease wood brush. Very little other vegetation.
-----	
	Thence I run North $0^{\circ} 1'$ W bet Secs 26 and 27 over level mesa country, from the cor of Secs 26, 27, 34 and 35.
28.00	Cross road, course NW-SE
40.00	Set a lava stone, 16 x 6 x 6 ins, <del>18</del> 19 ins in ground for $\frac{1}{4}$ Sec cor, marked $\frac{1}{4}$ on W face. Dig pits 18 x 18 x 12 ins, 3 ft N and S of cor. Raised mound of earth $3\frac{1}{2}$ ft base, $1\frac{1}{2}$ ft high W of cor. No trees nor stones.
✓	
80.00	Set a granite stone, 16 x 8 x 6 ins, <del>19</del> 18 ins in ground for cor of Secs 22, 23, 26 and 27, marked 2 grooves on S and 2 grooves on E edges. Dig pits 18 x 18 x 12 ins in 4 Secs, $5\frac{1}{2}$ ft dist from cor. Raised mound of earth 4 ft base, 2 ft high, W of cor. No trees nor stones. Soil, sandy loam, first rate. Land, level, sloping gently to the S and W, covered with a slight growth of grease wood brush.
-----	
	At 12h.m. l.m.t., I set off $22^{\circ} 31'$ S on the decl arc and observe the sun on the meridian at the cor of secs 22, 23, 26 and 27, the resulting lat being $34^{\circ} 57'$ N.
	Thence I run North $89^{\circ} 57'$ E on a random line bet Secs 23 and 26 over level mesa country.
40.00	Set Temporary $\frac{1}{4}$ Sec cor.
79.82	Intersect the cor of Secs 23, 24, 25 and 26.
	Thence I run South $89^{\circ} 57'$ W bet Secs 23 and 26.
39.91	Set a lava stone, 16 x 6 x 4 ins, <del>18</del> 19 ins in ground for $\frac{1}{4}$ Sec cor, marked $\frac{1}{4}$ on N face. Dig pits 18 x 18 x 12 ins 3 ft E and W of cor. Raised mound of earth $3\frac{1}{2}$ ft base, $1\frac{1}{2}$ ft high N of cor. No trees nor stones.
✓	
79.82	The cor of Secs, 22, 23, 26 and 27. Soil, sandy loam, first rate. Land, level falling gently to the S and W, covered with a scant growth of grease wood brush.
✓	

chains

6.50  
14.75  
40.00 ✓

Thence I run  
West bet Secs 22 and 27  
Cross road, course NW-SE  
Cross fence, course N and S  
Set a lava stone, 16 x 10 x 8 ins, ~~12~~ ins in ground for  $\frac{1}{4}$  Sec cor, marked  $\frac{1}{4}$  on N face. Raised mound of stones 2 ft base,  $1\frac{1}{2}$  ft high N of cor. No trees, pits impracticable.  
Intersect E bdy Camp Mohave Indian Reservation at South  $0^{\circ} 38' 16''$  W, 204 lks from 3 mile stone. *as recently est ablished by me*  
Set a lava stone, 20 x 8 x 6 ins, 16 ins in ground for closing cor, marked C.C. on E, C.M.I.R. on West, 2 grooves on N and 4 grooves on S faces. Raised mound of stone 2 ft base,  $1\frac{1}{2}$  ft high, E of cor.  
Soil, gravelly, second rate.  
Land, rough and broken.

At 3h.p.m. 1.m.t., I set off  $34^{\circ} 57'$  N on the lat arc,  $22^{\circ} 29'$  S on the decl arc and determine a true meridian at the cor of Secs 22, 23, 26 and 27.

40.00 ✓

Thence I run  
North  $0^{\circ} 1'$  W bet Secs 22 and 23, over ~~level~~ mesa country, sloping gently to the S and W.  
Set a lava stone, 16 x 8 x 6 ins, ~~12~~ ins in ground for  $\frac{1}{4}$  Sec cor, marked  $\frac{1}{4}$  on W face. Dig pits 18 x 18 x 12 ins, 3 ft N and S of cor. Raised mound of earth  $3\frac{1}{2}$  ft base,  $1\frac{1}{2}$  ft high W of cor. No trees nor stones.  
80.00 ✓  
Set a granite stone, 20 x 10 x 5 ins, ~~16~~ ins in ground for cor of Secs 14, 15, 22 and 23, marked 2 grooves on E and 3 grooves on S edges. Dig pits 18 x 18 x 12 ins in 4 Secs,  $5\frac{1}{2}$  ft from cor. Raised mound of earth 4 ft base, 2 ft high, W of cor.  
Soil, sandy loam, first rate.  
Land, level, sloping to the S and W, covered with slack growth of grease wood brush.

January 6th, 1906.

January 7th, 1906.

At 8h.a.m. 1.m.t., I set off  $34^{\circ} 57'$  N on the lat arc,  $22^{\circ} 22'$  S on the decl arc and determine a true meridian with the Solar at the cor of Secs 23, 24, 25 and 26.

5.00  
15.00

Thence I run  
North  $0^{\circ} 1'$  W bet Secs 23 and 24, over rough, broken, hilly country.  
Cross dry wash, 30 lks wide, course SW  
Leave mesa country, enter hills

40.00 ✓

Ascend  
Set a lava stone, 16 x 10 x 8 ins, ~~12~~ ins in ground for  $\frac{1}{4}$  Sec cor, marked  $\frac{1}{4}$  on W face. Raised mound of stones 2 ft base,  $1\frac{1}{2}$  ft high W of cor. No trees, pits impracticable.

45.00  
74.00  
80.00 ✓

Cross summit of ridge, course E and W. Descend  
Leave hills, enter wash, course W  
Set a lava stone, 18 x 10 x 6 ins, ~~14~~ ins in ground for cor of Secs 13, 14, 23 and 24, marked 3 grooves on S and 1 groove on E edges. Raised a mound of stones 2 ft base,  $1\frac{1}{2}$  ft high W of cor. No trees, pits impracticable.  
Soil, gravelly and rocky, second and third rate.  
Land, rough, broken, hilly country.

40.00  
80.04

Thence I run  
South  $89^{\circ} 56'$  E on a random line bet Secs 13 and 24 over rough, broken, hilly country.  
Set temporary  $\frac{1}{4}$  Sec cor  
Intersect range line at 21 lks South of cor of Secs 13, 18, 19 and 24.  
Thence I run  
South  $89^{\circ} 55'$  W on a true line bet Secs 13 and 24  
Descend



chains	
40.02 ✓	Set a lava stone, 16 x 6 x 6 ins, <sup>11</sup> 12 ins in ground for $\frac{1}{4}$ Sec cor, marked $\frac{1}{4}$ on N face. Raised mound of stones 2 ft base, $1\frac{1}{2}$ ft high, N of cor. No trees, pits impracticable.
45.00	Leave hills, enter dry wash, course W
80.04	The cor of Secs 13, 14, 23 and 24. Soil, gravelly and rocky, 3rd rate. Land, rough, hilly, covered with slight growth of grease wood brush. Very little other vegetation.
-----	
	Thence I run North $0^{\circ} 1'$ W bet Secs 13 and 14, over rough broken country.
8.50	Cross dry wash, 30 lks wide, course W Ascend, enter hills.
27.00	Cross ridge, course E and W Descend
32.00	Cross wash, 40 lks wide, course W Ascend
40.00 ✓	Set a lava stone, 18 x 10 x 6 ins, <sup>12</sup> 14 ins in ground for $\frac{1}{4}$ Sec cor, marked $\frac{1}{4}$ on W face. Raised mound of stone 2 ft base, $1\frac{1}{2}$ ft W of cor. No trees, pits impracticable.
50.00	Cross ridge, course NE-SW Descend
64.75	Cross gulch, 40 lks wide, course SW. Ascend
72.00	Cross ridge, course NE-SW. Descend
79.00	Cross gulch, 20 lks wide, course SW Ascend
80.00 ✓	Set a granite stone, 18 x 12 x 8 ins, <sup>12</sup> 14 ins in ground for cor of Secs 11, 12, 13 and 14, marked 4 grooves on S and 1 groove on E edges. Raised mound of stones 2 ft base, $1\frac{1}{2}$ ft high, W of cor. No trees, pits impracticable. Soil, rocky, fourth rate. Land, rolling, mountainous, covered with slight growth of grease wood brush. Mountainous land, 80.00 chs.
-----	
	Thence I run North $89^{\circ} 55'$ E on a random line bet Secs 12 and 13 over rough mountainous country.
40.00	Set temporary $\frac{1}{4}$ Sec cor.
80.05	Intersect range line at 7 lks North of cor of Secs 7, 12, 13 and 18. Thence I run South $89^{\circ} 58'$ W on a true line bet Secs 12 and 13 Ascend
4.00	summit of ridge, course NE-SW Descend
8.00	Cross dry wash, 40 lks wide, course SW Ascend
40.02	The summit of ridge, course NE-SW Set a lava stone 18 x 10 x 8 ins, 14 ins in ground for $\frac{1}{4}$ Sec cor, marked $\frac{1}{4}$ on N face. Raised mound of stones 2 ft base, $1\frac{1}{2}$ ft high N of cor. No trees, pits impracticable. Descend
53.50	Enter canon
57.50	Cross dry bed of canon, 40 lks wide, course SW. Ascend
61.25	Leave canon
80.05	The cor of Secs 11, 12, 13 and 14. Soil, rocky, fourth rate. Land, rough, mountainous, covered with slight growth of grease wood brush. Very little other vegetation. Mountainous land, 80.00 chs.

January 7th, 1906.

CHAINS

January 8th, 1906.

At 8h.a.m.l.m.t., I set off 34° 58' N on the lat arc, 22° 14S on the decl arc and determine a true meridian with the Solar at the cor of Secs 14, 15, 22 and 23.

Thence I run

North 89° 57' E on a random line bet Secs 14 and 23 over level mesa country.

40.00

Set temporary 1/4 Sec cor.

79.94

Intersect Sec line at 14 lks N of cor of Secs 13, 14 and 24.

Thence I run

North 89° 57' W on a true line bet Secs 14 and 23.

18.00

Cross dry wash, 50 lks wide, course SW

39.97

Set a lava stone, 16 x 8 x 6 ins, // 18 ins in ground for 1/4 Sec cor, marked 1/4 on N face. Raised mound of stones 2 ft base, 1 1/2 ft high, N of cor. No trees, pits impracticable.

79.94

The cor of Secs 14, 15, 22 and 23.

Soil, gravelly, second rate.

Land, level, sloping to the S and W, covered with a sligh growth of grease wood brush. Very little other vegetation.

Thence I run

West bet Secs 15 and 22, over level mesa country

40.00

Set a granite stone, 20 x 10 x 4 ins, // 16 ins in ground for 1/4 Sec cor, marked 1/4 on N face. Raised mound of stones, 2 ft base, 1 1/2 ft high, N of cor.

40.35

Intersect East bdy of Camp Mohave Indian Reservation at South 0° 38' 6" W, 194 lks from 2 mile stone. *as recently established by some*

Set a granite stone, 24 x 12 x 10 ins 18 ins in ground for closing cor, marked C.C. on E, 3 grooves on N and S and C.M.I. R. on W faces. Dig pits 24 x 18 x 12 ins 3 ft N and S and 7 ft E of cor. Raised mound of earth 4 ft base, 2 ft high, E of cor.

Soil, sandy loam; first rate.

Land, level, covered with slight growth of grease wood brush. Very little other vegetation.

Thence I run

From cor of Secs 14, 15, 22 and 23 North 0° 1'

40.00

W bet Secs 14 and 15, over level mesa country.

Set a lava stone, 16 x 8 x 6 ins, // 18 ins in ground for 1/4 Sec cor, marked 1/4 on W face. Dig pits 18 x 18 x 12 ins, 3 ft N and S of cor. Raised mound of earth 3 1/2 ft base, 1 1/2 ft high W of cor.

76.00

Leave mesa, enter sand hills.

Ascend

80.00

Set a granite stone, 24 x 10 x 8 ins, // 18 ins in ground for cor of Secs 10, 11, 14 and 15, marked 4 grooves on S and 2 grooves on E edges. Raised a mound of stone 2 ft base, 1 1/2 ft high, W of cor. No trees, pits impracticable.

Soil, sandy loam, first rate.

Land, 76.00 chns, level mesa, covered with a scant growth of grease wood brush.

January 8th.

At 12h.m.l.m.t., I set off 22° 16' S on the decl arc adn observed the sun on the meridian at the cor of Secs 10, 11, 14 and 15. *the resulting lat. is 34° 58' 1/2" N*

Thence I run South 89° 57' E on a random line between Secs 11 and 14, over sand hills.

40.00

Set temporary 1/4 Sec cor.

79.90

Intersect Sec line at 9 lks S of cor 11, 12, 13 and 14

Thence I run

South 89° 59' W on a true line bet Secs 11 and 14

Descend

39.95

Set a lava stone, 16 x 10 x 8 ins, // 18 ins in 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, N of cor. No trees, pits impracticable.

Subdivisions Tps 19 North. Rs 23 W.

chains

45.00

Foot of Sand Hills.

Ascend

79.90

The cor of Secs 10, 11, 14 and 15.

Soil, sand and gravel, third rate.

Land, hilly, very little vegetation.

Thence I run

West bet Secs 10 and 15

Descend

26.00

Foot of sand hills

39.50

Intersect East bdy Camp Mohave Indian Reservation at

S 0° 38' W, 188 lks from the 1 Mile Stone. *as recently established by me.*

Set a granite stone, 24 x 12 x 10 ins, 18 ins in ground

for closing cor, marked C. C. on E, 4 grooves on S

and 2 grooves on N edges and C.M.I.R. on W face. Dig

pits 24 x 18 x 12 ins, 3 ft N and S and 7 ft E of cor.

Raised mound of earth 4 ft base, 2 ft high E of cor.

Soil, sandy and sandy loam, first and third rate.

Land, level and hilly, 13.50 chs level, 26.00 sand

hills. Very little vegetation, principally grease wood

brush.

January 8th, 1906.

January 9th, 1906.

At 8h.a.m.l.m.t., I set off 34° 58' N on the lat

arc and 22° 6' S on the decl arc and determine a true

meridian at the cor of Secs 11, 12, 13 and 14.

Thence I run

North 0° 1' W bet Secs 11 and 12, over rough mount-  
ainous country.

Ascend

6.00

Cross summit of ridge, course E and W

Descend

11.75

Cross gulch, 30 lks wide, course SW

Ascend

15.00

Cross ridge, course E and W

Descend

18.25

Cross canon, 100 lks wide, course W

Ascend

25.00

Cross ridge, course E and W

Descend

30.25

Cross canon, 30 lks wide, course W

Ascend

37.00

Cross ridge, course E and W

Descend

40.00

Set a lava stone, 20 x 10 x 5 ins, <sup>16</sup>~~18~~ ins in ground

for  $\frac{1}{4}$  Sec cor, marked  $\frac{1}{4}$  on W face. Raised mound of

stones 2 ft base, 1  $\frac{1}{2}$  ft high, W of cor. No trees, pits

impracticable.

43.00

Cross canon, 100 lks wide, course W

Ascend

48.00

Cross ridge, course E and W

Descend

53.00

Enter canon,

58.00

Cross dry bed of canon, 50 lks wide, course W

Ascend

63.00

Leave canon, *ascend*

68.00

Cross ridge, course E and W

Descend

72.50

Cross Wash, 50 lks wide, course SW

Ascend

80.00

Set a granite stone, 18 x 12 x 10 ins, <sup>12</sup>~~14~~ ins in ground

for cor of Secs 1, 2, 11 and 12, marked 1 groove on E

and 5 grooves on S edges. Raised a mound of stones, 2

ft base, 1  $\frac{1}{2}$  ft high, W of cor. No trees, pits impracti-

cable.

Soil, rocky, fourth rate.

Land, very rough broken mountainous. Little vege-

tation, principally grease wood brush.

Mountainous land, 80.00 chs.

SUBDIVISIONS TOWNSHIPS 19 NORTH, RANGE 23 WEST.

chains

Thence I run  
 North 89° 58' E on a random line bet Secs 1 and 12  
 40.00 Set temporary  $\frac{1}{4}$  Sec cor  
 80.00 Intersect range line at South 5 lks from cor of Secs  
 1, 6, 7 and 12.  
 Thence I run  
 South 89° 56' W on a true line bet Secs 1 and 12  
 Descend  
 19.00 Edge of deep canon, descend abruptly.  
 30.00 Cross dry bed of canon, 50 lks wide, course NW  
 Ascend  
 38.00 Leave canon ascend  
 40.00 Set lava stone, 20 x 15 x 8 ins, <sup>16</sup>16 ins in ground for  
 $\frac{1}{4}$  Sec cor, marked  $\frac{1}{4}$  on N face. Raised mound of stones  
 2 ft base, 1 $\frac{1}{2}$  ft. high N of cor. No tress, pits imprac-  
 ticable.  
 80.00 The cor of Secs 1, 2, 11 and 12.  
 Soil, rocky, lava formation, fourth rate.  
 Land, rough, mountainous. Very little vegetation,  
 principally grease wood brush.  
 Mountainous land, 80.00 chs.

January 9th.

At 12h.m.1.m.t., I set off 22° 7' S on the decl arc  
 and observed the sun on the meridian at the cor of Secs  
 1, 2, 11 and 12, the resulting lat being 34° 59' N. ✓

Thence I run  
 North 0° 1' W on a random line bet Secs 1 and 2  
 over rough mountainous country.  
 40.00 Set temporary  $\frac{1}{4}$  Sec cor  
 80.16 Intersect Tp line at 10 lks East of cor of Secs 1, 2, 35  
 and 36.  
 Thence I run  
 South 0° 5' E on a true line bet Secs 1 and 2.  
 4.00 Enter canon. Descend  
 6.00 Cross dry bed of canon, 50 lks wide, course SW  
 Ascend  
 8.00 Leave canon  
 21.00 Cross ridge, course E and W  
 Descend  
 34.50 Enter canon  
 36.50 Cross dry bed of canpn, 40 lks wide, course W  
 Ascend  
 39.16 Leave canon  
 40.16 The point for  $\frac{1}{4}$  Sec cor falling on steep slope of ridge  
 and unsuitable to establish cor, I return to 39.16 chs  
 on the summit of ridge and  
 39.16 Set a granite stone, 18 x 12 x 10 ins, <sup>14</sup>14 ins in ground  
 for Witness  $\frac{1}{4}$  Sec cor, marked W.C.  $\frac{1}{4}$  on W face. Raised  
 mound of stone 2 ft base, 1 $\frac{1}{2}$  ft high, W of cor.  
 No trees, puts impracticable.  
 Descend steep side of ridge into canon.  
 47.00 Cross dry bed of canon, 50 lks wide, course W  
 Ascend  
 55.74 Summit of ridge, course E and W  
 Descend abruptly.  
 59.00 Foot of steep ridge  
 Descend  
 67.00 Cross dry bed of canon, 50 lks wide, course W  
 Ascend abruptly  
 80.16 The cor of Secs 1, 2, 11 and 12.  
 Soil, rocky, fourth rate.  
 Land, very rough and rugged, broken up by deep  
 canons and high narrow ridges. Very little vegetation,  
 principally grease wood brush.  
 Mountainous land, 80.16 chs.

January 9th, 1906.

chains

January 10th, 1906.

At 8h.a.m.l.m.t., I set off  $34^{\circ} 58'$  N on the lat arc,  $21^{\circ} 58'$  S on the decl arc and determine a true meridian with the Solar at the cor of Secs 10, 11, 14 and 15.

Thence I run  
North  $0^{\circ} 1'$  W bet Secs 10 and 11

Ascend

4.00 Top of sand hills, course E and W

Descend

13.00 Foot of hills, enter Colorado River bottom through dense growth of arrow wood.

37.00 Enter heavy mesquite timber

40.00 Set a lava stone 16 x 10 x 6 ins, 18 ins in ground for  $\frac{1}{4}$  Sec cor, marked  $\frac{1}{4}$  on W face, whence

A mesquite post, 4 ins in diam bears S  $25^{\circ}$  E, 52 lks dist, marked  $\frac{1}{4}$  S 11 B.T.

A mesquite, 6 ins in diam, bears S  $50\frac{1}{2}^{\circ}$  W, 84 lks dist, marked  $\frac{1}{4}$  S 10 B.T.

80.00 Set a granite stone, 18 x 10 x 10 ins, 14 ins in ground for cor of Secs 2, 3, 10 and 11, marked 5 grooves on S and 2 grooves on E edges, whence

A mesquite post, 7 ins in diam, bears S  $88\frac{1}{2}^{\circ}$  W 289 lks dist, marked T 19 N, R 22 W, S 10 B.T.

A mesquite, 10 ins in diam, bears N  $68\frac{1}{2}^{\circ}$  E, 478 lks dist, marked T 19 N, R 22 W, S 2 B.T.

A mesquite, 6 ins in diam bears S  $82\frac{1}{2}^{\circ}$  E, 410 lks dist, marked T 19 N, R 22 W, S 11 B.T.

No trees available in Section 3. Dig pit 18 x 18 x 12 ins,  $5\frac{1}{2}$  ft dist in Section 3 and raised mound of earth, 4 ft base, 2 ft high, W of cor.

Soil, sandy loam, first rate.

Land, level, covered with mesquite timber and dense undergrowth of timber, 80.00 chs.

Thence I run

North  $89^{\circ} 59'$  E on a random line bet Secs 2 and 11 over level land, covered with mesquite timber and dense undergrowth.

40.00 Set temporary  $\frac{1}{4}$  Sec cor

79.86 Intersect Sec line at 11 lks South of cor Secs 1, 2, 11 and 12.

Thence I run

South  $89^{\circ} 54'$  W on a true line bet Secs 2 and 11

Descend abruptly

15.00 Foot of hills, enter valley, through dense undergrowth of arrow wood

39.93 Set a lava stone, 16 x 8 x 8 ins, 18 ins in ground for  $\frac{1}{4}$  Sec cor, marked  $\frac{1}{4}$  on N face. Dig pits 18 x 18 x 12 ins, 3 ft E and W of cor. Raised mound of stone  $3\frac{1}{2}$  ft base,  $1\frac{1}{2}$  ft high N of cor. No trees available.

79.86 The cor of Secs 2, 3, 10 and 11.

Soil, sandy loam and rocky, first and third rate.

Land, level, 64.86 chs, covered with scattering mesquite timber and dense undergrowth of arrow wood.

Mountainous land, 15.00 chs.

Very little vegetation, principally grease wood.

Mountainous land, or land covered with timber or dense undergrowth, 79.86 chs.

Thence I run

North  $0^{\circ} 1'$  W on a random line bet secs 2 and 3

40.00 Set temporary  $\frac{1}{4}$  Sec cor.

80.08 Intersect Tp line at 12 lks East of Secs 2, 3, 34 and 35

Thence I run

South  $0^{\circ} 6'$  E on a true line bet Secs 2 and 3, over

level land, covered with scattering mesquite timber and dense undergrowth of arrow wood.

40.08 Set a lava stone, 16 x 8 x 6 ins, 18 ins in ground for  $\frac{1}{4}$  Sec cor, marked  $\frac{1}{4}$  on W face, whence

chains

80.08 ✓  
A mesquite 10 ins in diam, bears S 59 $\frac{1}{4}$ ° E, 149 lks dist, marked  $\frac{1}{4}$  S 2 B.T.  
A mesquite, 6 ins in diam, bears S 31 $\frac{1}{2}$ ° W, 191 lks dist, marked  $\frac{1}{4}$  S 3 B.T.  
The cor of Secs 2, 3, 10 and 11.  
Soil, sandy loam, first rate.  
Land, level, covered with scattering mesquite timber and dense undergrowth of arrow wood, 80.08 chs.  
January 10, 1906.

January 11th, 1906.

At 8h.a.m.l.m.t., I set off 34° 59' N on the lat arc and 21° 59' S on the decl arc and determine the true meridian with the Solar at the cor of Secs 2, 3, 10 and 11.

Thence I run

West bet Secs 3 and 10, over level land, through scattering mesquite timber and dense undergrowth of arrow wood.

40.00 ✓  
Set a granite stone, 18 x 16 x 4 ins, 14 ins in ground for  $\frac{1}{4}$  Sec cor, marked  $\frac{1}{4}$  on N face, whence

A mesquite post, 5 ins in diam, bears N 12° E 359 lks dist, marked  $\frac{1}{4}$  S 3 B.T.

A mesquite, 6 ins in diam, bears S 3 $\frac{1}{4}$ ° E, 419 lks dist, marked  $\frac{1}{4}$  S 10 B.T.

61.34 ✓  
Intersect left bank of Colorado River, bank about 4 ft high.

Set a mesquite post, 4 ins sq., 4 ft long, 3 ft in ground for Meander cor of fractional Secs 3 and 10, marked

M. C. on W face

T 19 N, S 3 on N face

R 22 W on E

S 10 on S face, whence

A cottonwood, 5 ins in diam, bears S 9 $\frac{1}{2}$ ° E, 119 lks dist, marked T 19 N, R 22 W, S 10 M.C.B.T.

A cottonwood, 4 ins in diam, bears N 53 $\frac{1}{2}$ ° E, 185 lks dist, marked T 19 N, R 22 W, S 3 M.C.B.T.

Land, level, subject to overflow, covered with scattering mesquite and cotton wood timber.

Soil, sandy loam, first rate.

Land, covered with dense undergrowth, 61.34 chs.

At 12h.m.l.m.t., I set off 21° 50' S on the decl arc and determine the true meridian at the cor of Secs 3, 4, 33 and 34, the resulting lat being 35° N.

Thence I run

South 0° 2' E bet Secs 3 and 4, through scattering mesquite and cottonwood timber and dense undergrowth of arrow wood.

40.00 ✓  
Set a cottonwood post; 4 ins sq., 4 ft long, 3 ft in ground for  $\frac{1}{4}$  Sec cor; marked  $\frac{1}{4}$  S on W face. *and on E face*  
Dig pits 18 x 18 x 12 ins, 3 ft N and S of cor. Raised mound of earth 3 $\frac{1}{2}$  ft base, 1 $\frac{1}{2}$  ft high, W of cor. No trees available.

48.35 ✓  
Intersect left bank of Colorado River, bank about 4 ft high.

Set a cottonwood post, 4 ins sq., 4 ft long, 3 ft in ground for Meander cor of fractional Secs 3 and 4, marked M. C. on S; T 19 N on N, R 22 W, S 3 on E, and S 4 on W faces, whence

A cottonwood 4 ins in diam, bears N 59° E, 43 lks dist, marked T 19 N, R 22 W, S 3 M.C.B.T.

A cottonwood 4 ins in diam, bears N 10° W, 89 lks dist, marked T 19 N, R 22 W, S 4 M.C.B.T.

Soil, sandy loam, first rate.

Land, level, subject to overflow, covered with scattering mesquite and cottonwood timber and dense undergrowth of arrow wood, 48.35 chs.

January 11th, 1906.

Meanders of the left bank of Colorado River, upstream.

January 12th, 1906.

I commenced at the cor of fractional Secs 3 and 4 Tp 19 N, R 22 W. River bank about 4 ft high.

Thence I run with Meanders in Sec 4, through dense undergrowth.

N 46 $\frac{1}{2}$ ° W	2.10	chs
N 41 $\frac{1}{2}$ ° W	9.00	"
N 31 $\frac{1}{2}$ ° W	14.60	"
N 28 $\frac{1}{2}$ ° E	5.40	"
N 19° E	6.30	"
N 21 $\frac{1}{2}$ ° E	2.10	"
N 10 $\frac{1}{2}$ ° E	10.60	"
N 0° 20' E	<del>4.86</del> 8.76	"

The Meander cor on Tp line bet Secs 4 and 33. Bank about 4 ft high.

Soil, sandy loam, first rate.

Land, river bottom, subject to overflow.

Timber, cottonwood and mesquite. Dense undergrowth of arrow wood.

Land covered with dense undergrowth, ~~52.88~~ 54.96 chs.

I commenced at the cor of fractional Secs 3 and 4 Tp 19 N, R 22 W.

At this cor, January 12th, at 10h. a.m.l.m.t., I set off 34° 59 $\frac{1}{2}$ ' N on the lat arc, 21° 41' S on the decl arc and determine a true meridian with the Solar.

Thence I run with Meanders in Sec 3 down stream

S 45 $\frac{1}{2}$ ° E	6.00	chs
S 64 $\frac{1}{2}$ ° E	1.90	"
S 79 $\frac{1}{2}$ ° E	4.70	"
S 63 $\frac{1}{2}$ ° E	3.70	"
S 38 $\frac{1}{2}$ ° E	6.40	"
S 27 $\frac{1}{2}$ ° E	4.00	"
S 13 $\frac{1}{2}$ ° E	4.40	"
S 0 $\frac{1}{2}$ ° E	5.00	"
S 05 $\frac{1}{2}$ ° W	5.30	"
S 56 $\frac{1}{2}$ ° W	2.00	"

River bank 4 ft high

The Meander cor of fractional Secs 3, and 10.

Soil, sandy loam, first rate.

Land, level, subject to overflow, covered with dense undergrowth of arrow wood.

Timber, scattering mesquite, willow and cottonwood.

Land covered with dense undergrowth, 43.40 chs.

Thence in Sec 10 through scattering timber and dense undergrowth.

S 28° W	2.10	chs
S 21° W	2.70	"
S 39 $\frac{1}{2}$ ° W	4.70	"
S 9 $\frac{1}{2}$ ° W	8.00	"
S 34° W	6.80	"
West	8.28	"

At 6 chs foot of bluff 20 ft high To point for Meander cor on line bet Secs 9 and 10.

Set a lava stone, 16 x 8 x 6 ins, 12 ins in ground for Meander cor, marked M. C. on N face and 3 grooves on E face. Raised a mound of stones 2 ft base, 1 $\frac{1}{2}$  ft high S of cor. No trees, pits impracticable.

Soil, sandy loam, first rate.

Land, level and hilly. Level river bottom 23.50 chs 9.08 chs river bluff.

River bottom covered with scattering timber and dense undergrowth of arrow wood, 23.50 chs.

Indian shack bears N 85° E, 12 chs dist. There are two Indian shacks in Sec 3 not visible from any portion of my line, but I have located them approximately on the plats.

Meanders left bank of Colorado River, upstream.

Thence I run in Sec 9, over river bluff

S 72½° W 6.80 chs To NW cor Camp Mohave Indian Reservation.

Soil, gravelly, fourth rate.  
Land, level. No timber nor undergrowth.

-----  
Beginning at Meander cor on line bet Secs 9 and 10,  
Thence I run

6.35

S 0° 2' E bet Secs 9 and 10  
To intersect N bdy Camp Mohave Indian Reservation at  
~~S 56° 45' 25" E~~ 7.85 chs from NW cor Camp Mohave Indian  
Reservation. *S 56° 51' 57" E, as recently established by me.*  
Set a lava stone, 16 x 6 x 6 ins, 12 ins in ground for  
Closing Cor, marked C. C. on N face, 3 grooves on E face  
and C.M.I.R.R. on S face. Raised mound of stones 2 ft  
base, 1½ ft high N of cor.

Soil, gravelly, third rate.  
Land, level.  
No timber or undergrowth.

January 12th, 1906.

-----  
GENERAL DESCRIPTION.

This Township is rough and mountainous in the Eastern portion, level mesa in the South and West portions. River bottom in the Northwest.

There is no water in Township excepting in the NW portion.

The Soil in the Eastern portion is rocky, lava formation the Western and Southern portion being a sandy loam. The NW portion of Township is Colorado river bottom portions of which are subject to overflow, covered with dense growth of arrow wood and scattering mesquite, cottonwood and willow timber.

There are no white settlers in this Township. There are two indian shacks in Sec 3 and one in Sec 10.

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



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 *Subdivisional and Meander lines T 19 N R 22 W*

showing the respective capacities in which they acted:

- Henry R O'Connor* ..... Chainman.
- Geo. W Cassidy* ..... Chainman.
- Henry R O'Connor* ..... Moundman.
- Geo. W. Cassidy* ..... Moundman.
- J. J. Murphy* ..... Axman.
- J. W. Ricketts* ..... Axman.
- Irving V Augur* ..... 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 *Subdivisional and Meander lines T. 19 N. R 22 W*

*Salt River* meridian, *Teritory* of *Arizona* of the *Gila and* 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*

- Henry R O'Connor* ✓ Chainman. and Moundman
- Geo. W. Cassidy* ✓ Chainman. and Moundman.
- J. J. Murphy* ✓ Axman. Moundman.
- J. W. Ricketts* ✓ Axman.
- Irving V. Augur* ✓ Axman.
- Irving V. Augur* ✓ Flagman.

Subscribed and sworn to before me this *14<sup>th</sup>* day of *January*, 1906



*J. J. Fisher*  
Surveyor Public

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

163  
14  
BOOK 2136

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 14<sup>th</sup> day of March, 1905, 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 Subdivisional and Meander lines T. 19 N. R. 22 W

Salt River meridian, in the Territory of Arizona, of the Gila and 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 1<sup>st</sup> day of February 1906, 1899

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



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona June 15 1906, 1899

The foregoing field notes of the survey of the subdivisional and meander lines of T. 19 N. R. 22 W 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. 128, dated March 14 1905, 1899, 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.