Book "A" 4—679.

Ordered filed, Dept. letter E. Jany. 8-1910
accepted April 2-1907
Copied 1905

122

2135

FIELD NOTES

BOOK 2135

OF THE SURVEY OF THE

2135

2135 Subdivisional and Meander lines

T 18 N R 22 W & Meanders of Spear's Lake

2135

Of the Gila and Salt River Meridian,

AS SURVEYED BY

John J Forbes, United States Deputy Surveyor,

Under his Contract No. 128, dated March 14th, 1905

Survey commenced Dec. 15, 1905

Survey completed Dec. 28, 1905

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2135

2135

2135

IA 123

BOOK 2135

NAMES AND DUTIES OF ASSISTANTS.

Henry R O Connor	Lieutenant
Geo. W Cassidy	Lieutenant
Henry R O Connor	Boundsman
Geo W Cassidy	Boundsman
J. J. Murphy	Axeman
J. W. Ricketts	Axeman
Irving V Augur	Flagman

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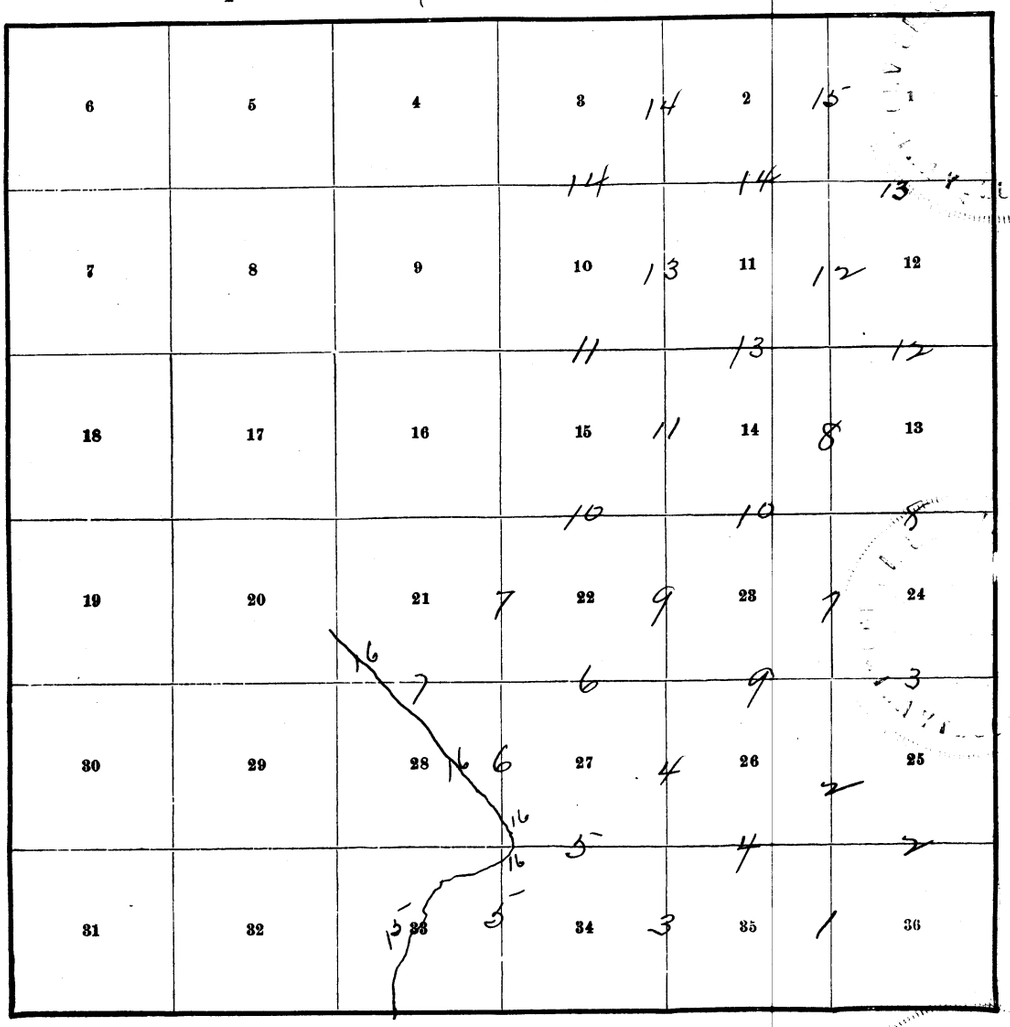
BOOK 2135

INDEX DIAGRAM.

Township 18 N., *Range* 22 W.



Meanders Page 18-15-16

12 125

BOOK 2135

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 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 Subdivisional and Meander lines T 18 N R 22 W

Henry R O Connor, Chainman.

Geo. W. Cassidy, Chainman.

Subscribed and sworn to before me this 4th day of October, 1905

J. J. Fisher
Notary Public

SEAL

My commission expires May 19, 1908

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 18 N R 22 W

Henry R O Connor, Moundman.

Geo. W. Cassidy, Moundman.

Subscribed and sworn to before me this 4th day of October, 1905

J. J. Fisher
Notary Public

SEAL

My commission expires May 19, 1908

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 18 N R 22 W

J. J. Murphy, Axman.

J. W. Ricketts, Axman.

Subscribed and sworn to before me this 4th day of October, 1905

J. J. Fisher
Notary Public

SEAL

My commission expires May 19, 1908

I, Irving V Augur, 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 18 N R 22 W

Irving V. Augur, Flagman.

Subscribed and sworn to before me this 4th day of October, 1905

J. J. Fisher
Notary Public

SEAL

My commission expires May 19, 1908

6—151

Chains

Survey commenced December 15th, 1905, 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 arcs. The instrument was examined tested on the true meridian at Phoenix, found correct and was approved by the Surveyor General for Arizona, September 25,1905.

I examined the adjustments of the Transit and correct the collimation errors, then to test the Solar Apparatus by comparing its indications, resulting from Solar observations during a.m. and p.m. hours with a meridian, which I established by Polaris observations November 3rd, I proceed as follows:

At the cor of Secs 1, 2, 35 and 36, Tp 17 and 18 N, R 22 W, lat 34° 49' 44.4", long ~~114° 38'~~ W, I set off 34° 50' N on the lat arc, 23° 13' S on the decl arc and at 4h.p.m.l.m.t., determine with the Solar a meridian and mark the point thereof on the stone set November 2nd, 5 chs N of cor. This mark falls 0.8 ins. W of the meridian determined by Polaris observations November 3rd.

December 15th, 1905.

December 16th, 1905.

At 8h.a.m.l.m.t., I set off 34° 50' N on the lat. arc and 23° 15' S on the decl arc and determine a meridian with the Solar and mark a point thereof on the rock set November 2nd, 5 chs N of cor. This point falls 0.35 ins E of the meridian established by Polaris observations. The Solar Apparatus by p.m. and a.m. observations defines position for meridian respectively about 0' 16" W and 0' 18" E of the meridian established by Polaris observations. Therefore, I conclude that that adjustments of the instruments are satisfactory.

The magnetic bearing of the true meridian at 8h. a.m. is N 15° 5' W. The angle thus determined gives a magnetic decl of 15° 5' E.

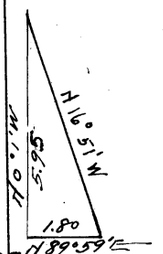
Thence I run

From cor of Secs 1, 2, 35 and 36,

North 0° 1' W bet Secs 35 and 36, through heavy mesquite timber and dense undergrowth of arrow wood.

9.90 Cross road, course E and W.

10.54 To South bank of "Y" Slough, water about 4 ft deep. To measure the dist across, I set a flag on N bank and measure a base N 87° 37' E 1.80 chs to a point, whence the flag bears N 16° 51' W. From the flag the E end of base bears S 16° 51' E, therefore the angles taken in order of measurement are 90°,73° 10' and 16° 50', their sum being equal to 180°. I compute the dist as follows:



Tang. 73° 10' x base or 3.30521 x 1.80 chs = 5.95 chs
10.54 + 5.95 = 16.49

16.49 N side of slough

38.00 To S bank ~~deep~~ Slough, water about 4 ft deep

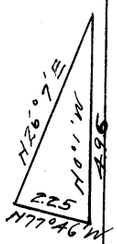
40.00 Point for ¼ Sec cor falls in about 4 ft of water, unsuitable to establish cor, therefore, I returned to 38.00 ch point, where I set a Willow post 4 ins sq, 4 ft long, 3 ft in ground for Witness ¼ Sec cor, marked W.C. ¼ S 35 on W face, ~~whence~~ and 36 on E. face.

A willow 6 ins in diam, bears N 30° W, 14 lks dist, marked ¼ S 35 W.C.B.T.

A willow 7 ins in diam, bears East, 29 lks dist, marked ¼ S 36 W.C.B.T.

Thence in order to measure the dist across the slough, I set a flag on line on N bank, then measure a base line N 77° 46' W to 2.25 chs to point, whence the flag bears N 26° 7' E. From the flag the W end of base bears S 26° 7' W. Therefore, the angles taken in

chains



order of measurement are respectively 77° 45', 76° 7', and 26° 8', their sum being equal to 180°. I compute the dist across the lake as follows:

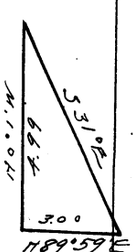
$$\frac{\text{sin. } 76° 7'}{\text{sin. } 26° 8'} \times \text{base or } \frac{.97079}{.44046} \times 2.25 \text{ chs} = 4.96 \text{ chs}$$

38.00 chs + 4.96 chs = 42.96 chs

42.96
~~42.95~~
43.13 To N side of Slough

To S bank of main part of deep Slough, water about 5 ft deep . In order to measure the dist across slough, I set a flag on N bank on line then measure a base of 3 chs to point, whence flag bears N 31° W. From flag, E end of base bears S 31° E, therefore the angles taken in order of measurement are respectively 90°, 59° and 31° , their sum being equal to 180°. I compute the dist across the slough as follows:

Tang. 59° x base or 1.66428 x 3 chs= 4.99 chs
43.13 chs + 4.99 chs = 48.12 chs



48.12 To N side of main slough

80.00 Set a mesquite post 4 ins sq, 4 ft long, 3 ft in ground for cor of Secs 25, 26, 35 and 36, marked

T 18 N, S 25 on NE
R 22 W, S 36 on SE
S 35 on SW
S 26 on NW faces, with 1 groove on S and 1 groove on E edges, whence

A mesquite, 4 ins in diam, bears N 19½° E, 57 lks dist, marked T 18 N, R 22 W, S 25 B.T.

A mesquite 10 ins in diam bears S 80½° E, 97 lks dist, marked T 18 N, R 22 W, S 36 B.T.

A mesquite 4 ins in diam, bears S 35° W, 62 lks dist marked T 18 N, R 22 W, S 35 B.T.

A mesquite 8 ins in diam, bears N 9½° W, 59 lks dist, marked T 18 N, R 22 W, S 26 B.T.

Soil, sandy loam, first rate.

Land, level, subject to overflow, covered with heavy mesquite timber, water, and dense undergrowth of arrow wood, 80.00 chs.

At 12h.m. L.m.t., I set off 23° 18' S on the decl arc and observed the sun on the meridian, the resulting lat being 34° 51' N.

Thence I run

East on a random line bet Secs 25 and 36

40.00 Set temporary ¼ Sec cor

80.10 Intersect range line at S 2 lks from cor of Secs 25, 30, 31 and 36.

Thence I run

South ~~North~~ 89° 59' W on a true line bet Secs 25 and 36 through heavy mesquite timber and dense undergrowth.

40.05 Set a mesquite 4 ins sq. 4 ft long, 3 ft in ground for ¼ Sec cor, marked ¼ S 25 on N side, ~~whence~~ and 36 on S side

A mesquite 8 ins in diam, bears N 22½° E, 83 lks dist, marked ¼ S 25 B.T.

A mesquite, 5 ins in diam, bears S 65½° E, 123 lks dist, marked ¼ S 36 B.T.

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

Soil, sandy loam, first rate.

Land, level, subject to overflow, covered with heavy mesquite timber and dense undergrowth of arrow wood, 80.10 chs.

December 16th, 1905.

December 17th, 1905.

At 8h. a.m.l.m.t., I set off 34° 51' N on the lat arc, 23° 17' S on the decl arc and determine a true meridian at the cor of Secs 25, 26, 35 and 36.

Thence I run

North 0° 1' W bet Secs 25 and 26, through mesquite willow and cottonwood timber and dense undergrowth of arrow wood.

chains

40.00 Set a mesquite post, 4 ins sq 4 ft long 3 ft in ground for ¼ Sec cor, marked ¼ S 26 on W face, ~~whence~~ and 25 on E face
A mesquite, 5 ins in diam, bears S 40° E, 87 lks dist, marked ¼ S 25 B.T.
A cottonwood, 48 ins in diam, bears N 48° W, 710 lks dist, marked ¼ S 26 B.T.

72.25 Cross road, course SE-NW

73.00 Cross fence, course ~~NW-SE~~ W. & S.W.

80.00 Set a mesquite post, 4 ins sq 4 ft long, 3 ft in ground for cor of Secs 23, 24, 25 and 26, marked
T 18 N, S 24 on NE
R 22 W, S 25 on SE
S 26 on SW
S 23 on NW faces, with 2 grooves on S and 1 groove on E edges, whence
A mesquite, 4 ins in diam, bears N 59¾° E, 42 lks dist, marked T 18 N, R 22 W, S 24 B.T.
A mesquite 4 ins in diam, bears S 11¾° E, 62 lks dist, marked T 18 N, R 22 W, S 25 B.T.
A mesquite 4 ins in diam, bears S 61° W, 44 lks dist, marked T 18 N, R 22 W, S 26 B.T.
A mesquite 6 ins in diam, bears N 27¾° W, 70 lks dist, marked T 18 N, R 22 W, S 23 B.T.
Soil, sandy loam, first rate.
Land, level, covered with heavy mesquite and cottonwood timber and dense undergrowth, 80.00 chs.

Thence I run
South 89° 59' E on a random line bet Secs 24 and 25

40.00 Set Temporary ¼ Sec cor. 12

80.00 Intersect range line at ~~16~~ lks North of cor of Secs 19, 24, 25 and 30.
Thence I run
North 89° 54' W on a true line bet Secs 24 and 25 through mesquite timber and dense undergrowth of arrow wood.

40.00 Set mesquite post 4 ins sq 4 ft long, 3 ft in ground for ¼ Sec cor, marked ¼ S 25 on N face, ~~whence~~ and 25 on S. face
A mesquite 5 ins in diam, bears S 50¾° W, 241 lks dist, marked ¼ S 25 B.T.
A mesquite 6 ins in diam, bears N 37° W, 15 lks dist, marked ¼ S 24 B.T.

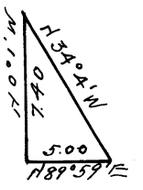
58.00 Cross road, course SE-NW

58.75 Cross fence, course NW-SE

80.00 The cor of Secs 23, 24, 25 and 26.
Soil, sandy loam, first rate.
Land, level, covered with mesquite timber and dense undergrowth of arrow wood, 80.00 chs.
December 17th, 1905.

December 18th, 1905.
At 8h.a.m.l.m.t., I set off 34° 50' N on the lat arc, 23° 19' S on the decl arc and determine a true meridian with the Solar at the cor of Secs 2, 3, 34 and 35.
Thence I run
North 0° 1' W bet Secs 34 and 35, through mesquite, cottonwood and willow timber and dense undergrowth.

6.00 To South bank of Slough, water about 2 to 3 ft deep. In order to measure the dist across the slough, I set a flag on N bank on line, then measure a base line N 89° 59' E, 5 chs to point, whence the flag bears N 34° 4' W. From the flag, the E end of base, bears S 34° 4' E. Therefore, the angle taken in order of measurement are respectively 90°, 55° 57' and 34° 3', their sum being equal to 180°. I compute the dist accross the slough as follows:
Tang. 55° 57' x base or 1.47977 x 5.00 chs = 7.40chs
6.00chs + 7.40chs = 13.40 chs



13.40 N bank of slough, course E.

Chains	
18.50	Enter road on West side, course N and S
22.50	Leave road
40.00	Set a mesquite, 4 ins sq., 4 ft long, 3 ft in ground for ¼ Sec cor, marked ¼ S 34 on W face, ~~whence~~ and 35 on E. face.
	A mesquite 4 ins diam, bears S 69½° W, 27 lks dist, marked ¼ S 34 B.T.
	A mesquite 5 ins in diam, bears N 49½° E, 67 lks dist, marked ¼ S 35 B.T.
80.00	Set a mesquite post 4 ins sq, 4 ft long, 3 ft in ground for cor of Secs 26, 27, 34 and 35, marked
	T18 N, S 26 on NE
	R 22 W, S 35 on SE
	~~S 34~~ on SW
	S 27 on NW, with 2 notches on E and 1 notch on S edges, whence
	A mesquite 6 ins in diam, bears N 33¾° W, 169 lks dist, marked T 18 N, R 22 W, S 27 B.T.
	A mesquite 6 ins in diam, bears N 31¾° E, 159 lks dist, marked T 18 N, R 22 W, S 26 B.T.
	A mesquite 6 ins in diam, bears S 28½° E, 162 lks dist, mraked T 18 N, R 22 W, S 35 B.T.
	A mesquite 7 ins in diam, bears S 24½° W, 110 lks dist, marked T 18 N, R 22 W, S 34 B.T.
	Soil, sandy loam, first rate.
	Land, level, subject to overflow, covered with mesquite, cottonwood and willow timber and dense undergrowth of arrow wood, 80.00 chs.

	Thence I run
	East on a random line bet Secs 26 and 35
40.00	Set temporary ¼ Sec cor
79.86	Intersect Sec line at 13 lks North of cor of Secs 25, 26, 35 and 36.
	Thence I run
	North 89° 54' W on a true line bet Secs 26 and 35, through mesquite timber and dense undergrowth of arrow wood
39.93	Set a mesquite post, 4 ins sq., 4 ft long, 3 ft in ground for ¼ Sec cor, marked ¼ S 26 on N face, ~~whence~~ and 35 on S. face.
	A mesquite 5 ins in diam, bears S 75° E, 34 lks dist, marked ¼ S 35 B.T.
	A mesquite 4 ins in diam, bears N 50° W, 33 lks dist, marked ¼ S 26 B.T.
59.50	Cross Mail Road, course N and S.
68.20	Cross main canal, of the Colorado River and Irrigation Company, the South end of which bears S 20 chs, canal 20 ft base, about 4 ft deep.
79.86	The cor of Secs 26, 27, 34 and 35
	Soil, sandy loam, first rate.
	Land, level, covered with scattering mesquite timber and dense undergrowth of arrow wood, 79.86 chs.

	Thence I run
	North 0° 1' West bet Secs 26 and 27, through mesquite timber and dense undergrowth.
40.00	Set a mesquite post 4 ins sq., 4 ft long, 3 ft in ground for ¼ Sec cor, marked ¼ S 27 on W face, ~~whence~~ and 26 on E face.
	A mesquite 5 ins in diam, bears N 11¾° E, 56 lks dist, marked ¼ S 26 B.T.
	A mesquite 6 ins in diam, bears N 7° W, 54 lks dist, marked ¼ S 27 B.T.
61.65	Cross road, course SE-NW
80.00	Set a mesquite post 4 ins sq, 4 ft long 3 ft in ground for cor of Secs 22, 23, 26 and 27, marked
	T 18 N, S 23 on NE
	R 22 W, S 26 on SE
	S 27 on SW
	S 22 on NW faces, with 2 grooves on S and 2 grooves on E edges, whence
	A mesquite, 14 ins in diam, bears S 11½° E, 144 lks dist, marked T 18 N, R 22 W, S 26 B.T.
	A mesquite 10 ins in diam, bears S 15½° W, 172 lks dist, marked T 18 N, R 22 W, S 27 B.T.

chains

A mesquite 4 ins in diam, bears N 70¾° W, 309 lks dist, marked T 18 N, R 22 W, S 22 B.T.
A mesquite 5 ins in diam, bears N 45¾° E, 319 lks dist, marked T 18 N, R 22 W, S 23 B.T.
Soil, sandy loam, first rate.
Land, level, covered with scattering mesquite timber and dense undergrowth of arrow wood, 80.00 chs.
December 18th, 1905.

December 19th, 1905.
At 8h. a.m.l.m.t., I set off 34° 50' N on the lat arc, 23° 21' S on the decl arc and determine the true meridian at the cor of Secs 3, 4, 33 and 34.
Thence I run
North 0° 2' W bet Secs 33 and 34, through mesquite, willow and cottonwood timber and dense undergrowth.
40.00 Set a willow post, 6 ins sq., 4 ft long, 3 ft in ground for ¼ Sec cor, marked ¼ S 33 on W face, ~~whence~~, and 34 on E face
A cottonwood 12 ins in diam, bears S 42° W, 74 lks dist, marked ¼ S 33 B.T.
A willow 8 ins in diam, bears S 35° E, 55 lks dist, marked ¼ S 34 B.T.
66.10 Intersect left bank of Colorado River, bank about 5 ft high. Main current of river close in to bank, cutting.
Set a mesquite post, 4 ins sq., 4 ft long, 3 ft in ground for Meander cor of Fractional Secs 33 and 34, marked
M.C. on N face
R 22 W, S 34 on E
T 18 N, on S
S 33 on W faces, whence
A cottonwood, 6 ins in diam, bears N 50½° E, 35 lks dist, marked T 18 N, R 22 W, S 34 M.C.B.T.
A cottonwood, 8 ins in diam, bears S 12¾° W, 181 lks dist, marked T 18 N, R 22 W, S 33 M.C.B.T.
Soil, sandy loam, first rate.
Land, level, subject to overflow, covered with scattering mesquite, willow and cottonwood timber and dense undergrowth of arrow wood, 66.10 chs.

December 19th.
At 12h.m.l.m.t., I set off 23° 24' S on the decl arc and observed the sun on the meridian at the cor of Secs 26, 27, 34 and 35, the resulting lat being 34° 51' N.
Thence I run
West bet Secs 27 and 34, through scattering mesquite, willow and cottonwood timber, and dense undergrowth of arrow wood.
40.00 Set a mesquite post, 4 ins sq., 4 ft long, 3 ft in ground for ¼ Sec cor, marked ¼ S 27 on N face, ~~whence~~ and 34 on S face.
A mesquite, 4 ins in diam, bears N 38° E, 78 lks dist, marked 1/4 S 27 B.T.
A mesquite, 5 ins in diam, bears S 29½° E, 127 lks dist, marked ¼ S 34 B.T.
51.75 Cross road, course N and S
77.44 Intersect left bak of Colorado river, bank about 5 ft high. Main current of river close in to bank, continuously cutting.
Set a mesquite post, 4 ins sq., 4 ft long, 3 ft in ground for Meander Cor of fractional Secs 34 and 27, marked
M. C. on W face
T 18 N, S 27 on N face
R 22 W on E
S 34 on S faces, whence
A cottonwood 8 ins in diam, bears S 28° E, 91 lks dist, marked T 18 N, R 22 W, S 34 M.C.B.T.
A cottonwood, 6 ins in diam, bears N 41¼° E, 126 lks dist, marked T 18 N, R 22 W, S 27 M.C.B.T.
Soil, sandy loam, first rate.
Land, level, subject to overflow, covered with scattering mesquite, willow and cottonwood timber and dense undergrowth of arrow wood, 77.44 chs.

Chains	
	December 20th, 1905.
	At 8h.a.m.l.m.t., I set off 34° 51' N on the lat arc, 23° 22' S on the decl arc and determine the true meridian at the cor of Secs 22, 23, 26 and 27.
	Thence I run
	West bet Secs 22 and 27, through mesquite, willow and cottonwood timber and dense undergrowth.
6.00	Cross road, course NE-SW
11.75	Cross Mail Road, course NW-SE
15.00	Cross fence, course N and S, whence Chas. Sutherland's house bears North 10.00 chs.
24.00	Cross fence, course N and S
40.00	Set a mesquite, 4 ins sq., 4 ft long, 3 ft in ground, for ¼ Sec cor, Marked ¼ S 22 on N face, ~~whence~~ and 27 on S. face
	A mesquite, 5 ins in diam, bears N 39¼° E, 157 lks dist, marked ¼ S 22 B.T.
	A mesquite, 5 ins in diam, bears S 37½° E, 75 lks dist, marked ¼ S 27 B.T.
75.25	Cross road, course N and S
76.00	Cross fence, course N and S
80.00	Set a mesquite post, 4 ins sq., 4 ft long, 3 ft in ground for cor of Secs 21,22,27 and 28, marked
	T 18 N, S 22 on NE
	R 22 W, S 27 on SE
	S 28 on SW
	S 21 on NW faces, with 3 grooves on E and 2 grooves on S edges, whence
	A mesquite, 10 ins in diam, bears N 4° E, 280 lks dist, marked T 18 N, R 22 W, S 22 B.T.
	A cottonwood, 12 ins in diam, bears N 11° W, 322 lks dist, marked T 18 N, R 22 W, S 21 B.T.
	A cottonwood, 8 ins in diam, bears S 19° W, 348 lks dist, marked T 18 N, R 22 W, S 28 B.T.
	A willow, 6 ins in diam, bears S 72¾° E, 316 lks dist, marked T 18 N, R 22 W, S 27 B.T.
	Indian house bears N 45° E, 2 chs dist.
	Soil, sandy loam, first rate.
	Land, level, subject to overflow, covered with scattering mesquite, willow and cottonwood timber and dense undergrowth of arrow wood, 80.00 chs.
	Thence I run
	South 0° 2' E bet Secs 27 and 28, through scattering timber and dense undergrowth.
3.75	Cross fence, course E and W
40.00	Set a mesquite post, 4 ins sq., 4 ft long, 3 ft in ground for ¼ Sec cor, marked ¼ S 28 on W face, ~~whence~~ and 27 on E. face
	A cottonwood, 15 ins in diam, bears S 11¼° E, 20 lks dist, marked ¼ S, 27 B.T.
	A cottonwood 10 ins in diam, bears S 32¼° W, 21 lks dist, marked ¼ S 28 B.T.
68.00	Intersect left bank of Colorado River, bank about 5 ft high. Main current close in to bank, cutting very fast. Set a mesquite post, 4 ins sq., 4 ft long, 3 ft in ground for Meander cor of fractional Secs 27 and 28, marked
	M. C. on S
	T 18 N on N
	R 22 W, S 27 on E
	S 28 on W faces, whence
	A mesquite 5 ins in diam, bears N 7¼° W, 38 lks dist, marked T 18 N, R 22 W, S 28 M.C.B.T.
	A cottonwood, 15 ins in diam, bears S 48½° E, 54 lks dist, marked T 18 N, R 22 W, S 27 M.C.B.T.
	Soil, sandy loam, first rate.
	Land, level, subject to overflow, covered with scattering mesquite, willow and cottonwood timber and dense undergrowth, 68.00 chs.

Chains	
	At 12h.m.l.m.t., I set off 23° 25' S on the decl arc and observed the sun on the meridian at the cor of Secs 21, 22, 27 and 28, the resulting lat being 34° 51' N.
	Thence I run
	West bet Secs 21 and 28, through scattering timber and dense undergrowth.
6.00	Cross fence, course N and S
9.50	Cross road, course N and S
13.95	Cross fence, course NE-SW
17.00	Enter land cultivated by Indians.
27.75	Cross fence, course NE-SW, leave cultivated land.
34.90	Cross fence, course N and S
	Indian shack bears North 2.00 chs dist
40.00	Set a mesquite post, 4 ins sq., 4 ft long, 3 ft in ground for ¼ Sec cor, marked ¼ S 28 on N face, ~~whence~~ and 28 on S face.
	A willow, 6 ins in diam, bears South, 149 lks dist, marked ¼ S 28 B.T.
	A cottonwood, 6 ins in diam, bears N 55° W, 142 lks dist, marked ¼ S 21 B.T.
48.18	Intersect left bank of Colorado River, bank about 4 ft high. Main current close in to bank, cutting very fast.
	Set a willow post, 4 ins sq., 4 ft long, 3 ft in ground for Meander Cor of fractional Secs 21 and 28, marked
	M. C. on W
	T 18 N, S 21 on N
	R 22 W on E
	S 28 on S faces, whence
	A willow, 12 ins in diam, bears N 9° W, 217 lks dist, marked T 18 N, R 22 W, S 21 M.C.B.T.
	A willow, 5 ins in diam, bears S 53¼° E, 150 lks dist, marked T 18 N, R 22 W, S 28 M.C.B.T.
	Soil, sandy loam, first rate.
	Land level, subject to overflow, covered with willow, cottonwood and mesquite timber, and dense undergrowth of arrow wood, 48.18 chs.

	At 3h.p.m.l.m.t., I set off 34° 51' N on the lat arc, 23° 24' S on the decl arc and determine a true meridian at the cor of Secs 21, 22, 27 and 28.
	Thence I run
	North 0° 2' W bet Secs 21 and 22, through heavy timber and dense undergrowth.
8.75	Cross fence, course E and W
9.00	Cross road, course E and W
11.00	Whence Indian shack bears East 5 chs
36.49	Intersect South Bdy Camp Mohave Indian Reservation at N 76° 17' E, 8.88 chs from 9 Mile Post
	Set a mesquite post 4 ins sq., 4 ft long, 3 ft in ground for closing Sec cor, marked T 18 N, C. C. on S face, C.M.I.R. on North face, R 22 W, S 22 on E face and S 21 on W face, whence
	A mesquite 5 ins in diam, bears S 22¾° W, 53 lks dist, marked T 18 N, R 22 W, S 21 C.C.B.T.
	A mesquite, 5 ins in diam, bears S 49° E, 70 lks dist, marked T 18 N, R 22 W, S 22 C.C.B.T.
	Soil, sandy loam, first rate.
	Land, level, subject to overflow, covered with mesquite, cottonwood and willow timber and dense undergrowth of arrow wood, 36.49 chs.
	December 20th, 1905.

	December 21st, 1905.
	At 8h.a.m.l.m.t., I set off 34° 51' N on the lat arc, 23° 23' S on the decl arc, and determine a true meridian with the Solar at the cor of Secs 23, 24, 25 and 26.
	Thence I run
	North 0° 1' W bet Secs 23 and 24, through mesquite, willow and cottonwood timber and dense undergrowth of arrowwood.
17.75	Cross fence, course NE-SW
18.25	Cross road, course SE-NW

chains

40.00 ✓ Set a mesquite, 6 ins sq., 4 ft long, 3 ft in ground for ¼ Sec cor, marked ¼ S 23 on W face, ~~whence~~ and 24 on E face
A mesquite, 4 ins in diam, bears N 62° E, 111 lks dist, marked ¼ S 24 B.T.
A mesquite 7 ins in diam, bears S 45¾° W, 123 lks dist, marked ¼ S 23 B.T.

61.25 Cross irrigation ditch, no water, 12 ft base, 3 ft deep, course E.

80.00 ✓ Set a mesquite post, 4 ins sq., 4 ft long, 3 ft in ground for cor of Secs 13, 14, 23 and 24, marked
T 18 N, S 13 on NE
R 22 W, S 24 on SE
S 23 on SW
S 14 on NW faces, with 3 grooves on S and 1 groove on W edges, whence
A mesquite, 4 ins in diam bears, N 67° E, 82 lks dist, marked T 18 N, R 22 W, S 13 B.T.
A mesquite, 8 ins in diam, bears S 61½° E, 93 lks dist, marked T 18 N, R 22 W, S 24 B.T.
A mesquite, 15 ins in diam, bears S 41°W, 270 lks dist, marked T 18 N, R 22 W, S 23 B.T.
A mesquite, 8 ins in diam, bears N 64½° W, 23 lks dist, marked T 18 N, R 22 W, S 14 B.T.
Soil, sandy loam, first rate.
Land, level, covered with scattering mesquite timber and dense undergrowth of arrow wood, 80.00 chs.

Thence I run
South 89° 54' E on a random line bet Secs 13 and 24, through scattering timber and dense undergrowth

40.00 Set temporary ¼ Sec cor

80.04 Intersect range line at 11 lks North of Secs 13, 18, 19 and 24.
Thence I run
North 89° 49' W on a true line bet Secs 13 and 24

30.00 Cross road, course NE-SW

40.02 ✓ Set a mesquite post, 4 ins sq., 4 fy long, 3 ft in ground for ¼ Sec cor, marked ¼ S 13 on N face, ~~whence~~ and 24 on S. face
A mesquite, 10 ins in diam, bears N 29¾° W, 117 lks dist, marked ¼ S 13 B.T.
A mesquite 12 ins in diam, bears S 5° W, 117 lks dist, marked ¼ S 24 B.T.

45.00 Cross road, course NE-SW

80.04 The cor of Secs 13, 14, 23 and 24.
Soil, sandy loam, first rate.
Land, level, covered with mesquite timber and dense undergrowth of arrow wood, 80.04 chs.

Thence I run
North 0° 1' W bet Secs 13 and 14 through heavy mesquite timber and dense undergrowth

9.75 Cross fence, course E and W

12.23 Whence Washburn Ranch House bears North 57° E, 12 chs dist.
Rielly's House bears North 39½° W, 10 chs dist.

29.75 Cross ditch, 10 ft base, 3 ft deep, course E.

30.25 Cross fence, course E and W, enter cultivated land, extending E and W of line.

39.00 Leave cultivated land.

40.00 Set a mesquite post, 4 ins sq., 4 ft long, 3 ft in ground for ¼ Sec cor, marked ¼ S 14 on W face, ~~whence~~ and 1 on E. face
A mesquite, ~~12~~ ins in diam, bears S 73¼° W, 159 lks dist, marked ¼ S ~~14~~ B.T.
A mesquite, 10 ins in diam, bears N 26½° E, 348 lks dist, marked ¼ S ~~13~~ B.T.

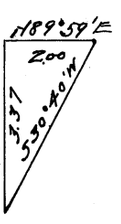
49.35 Cross fence, course E and W

63.00 Cross road, course E and W

72.11 To South edge of shallow slough, water about 6 ins deep.

77.00 To North edge of slough, course SE

chains	
80.00	Set a mesquite post, 4 ins sq., 4 ft long, 3 ft in ground for cor of Secs 11, 12, 13 and 14, marked T 18 N S 12 on NE R 22 W, S 13 on SE S 14 on SW S 11 on NW, whence A mesquite 15 ins in diam, bears N 44° E, 113 lks dist, marked T 18 N, R 22 W, S 12 B.T. A mesquite, 13 ins in diam, bears S 63° E, 66 lks dist, marked T 18 N, R 22 W, S 13 B.T. A mesquite, 12 ins in diam, bears S 73½° W, 73 lks dist, marked T 18 N, R 22 W, S 14 B.T. A mesquite, 24 ins in diam, bears N 55¼° W, 174 lks dist, marked T 18 N, R 22 W, S 11 B.T. Soil, sandy loam, first rate. Land, level, covered with mesquite timber and dense undergrowth of arrow wood, 71.25 chs. December 21st, 1905.
	December 22nd, 1905. At 8h.a.m.l.m.t., I set off 34° 51' N on the lat arc, 23° 23' S on the decl arc and determine a true meridian at the cor of Secs 22, 23, 26 and 27. Thence I run South 89°54'E bet Secs 23 and 26, on random line through scattering of mesquite, willow and cottonwood timber and dense ~~under~~growth of arrow wood, ~~on a random line~~.
40.00	Set temporary ¼ Sec cor.
79.88	Intersect Sec line at South 11 lks from cor of Secs 23, 24, 25 and 26. Thence I run North 89° 59' W on a true line bet Secs 23 and 26
6.43	Cross road, course NW-SE, whence R. A. Colton's house bears N 37° W
33.08	Whence R. A. Colton's house bears N 52° E
39.94	Set a mesquite, 4 ins sq., 4 ft long, 3 ft in ground for ¼ Sec cor, marked ¼ S 23 26 on N face, ~~whence~~ and 26 on S face A mesquite 6 ins in diam, bears N 56¾° E, 163 lks dist, marked ¼ S 23 B.T. A mesquite, 14 ins in diam, bears S 70½° E, 116 lks dist, marked ¼ S 26 B.T.
68.23	Cross main canal, 20 ft base, 4 ft deep, course S
79.88	The cor of Secs 22, 23, 26 and 27. Soil, sandy loam, first rate. Land, level, covered with scattering mesquite timber and dense undergrowth of arrow wood, 79.88 chs.
	Thence I run North 0° 1' W bet Secs 22 and 23, through scattering timber and dense undergrowth of arrwo wood.
4.00	Cross road, course E and W
40.00	Set a mesuite post, 4 ins sq., 4 ft long, 3 ft in ground for ¼ Sec cor, marked ¼ S 22 23 on W face, ~~whence~~ and 23 on E face; A mesquite 5 ins in diam, bears S 4½° E, 82 lks dist, marked ¼ S 23 B.T. A mesquite, 8 ins in diam, bears N 81¼° W, 141 lks dist, marked ¼ S 22 B.T.
46.25	Cross road, course NE-~~SE~~ NW-SW.
53.68	Intersect the South bank of Harper's slough, about 4 ft of water. To measure the dist across the slough, I set a flag on the North bank, It being impossible to measure a base on the South bank I set a flag at 53.68 ch point, ~~then~~ I go to flag on N bank and measure a base N 89° 59' E, 2 chs to point, from point flag on S side of Slough bears S 30° 40' W. Therefore, the angles taken in order of measurement are 90°, 59° 19', and 30° 41' the sum of which is 180°. I compute the dist across the slough as follows: Tang. 59° 18' x base or 1.68531 x 2.00 chs = 3.37 chs 53.68 chs + 3.37 chs = 57.05 chs
57.05	North side of slough, course SE



chains
57.25 Cross road, course E and W
80.00 Set a mesquite post, 4 ins sq., 4 ft long, 3 ft in ground for cor of Secs 14, 15, 22 and 23, marked
T 18 N, S 14 on NE
R 22 W, S 23 on SE
S 22 on SW
S 15 on NW faces, with 2 grooves on E and 3 grooves on S edges, whence
A mesquite, 18 ins in diam, bears S 35¼° W, 44 lks dist, marked T 18 N, R 22 W, S 22 B.T.
A mesquite 12 ins in diam, bears N 74° W, 81 lks dist, marked T 18 N, R 22 W, S 15 B.T.
A mesquite, 8 ins in diam, bears N 59¼° E, 131 lks dist, marked T 18 N, R 22 W, S 14 B.T.
A mesquite, 12 ins in diam, bears S 54½° E, 120 lks dist, marked T 18 N, R 22 W, S 23B.T.
Soil, sandy loam, first rate.
Land, level, covered with scattering mesquite willow and cottonwood and dense undergrowth of arrow wood and water, 80.00 chs.

Thence I run
West bet Secs 15 and 22, through scattering mesquite timber and dense undergrowth.
27.25 Cross road, course NE-SW
40.00 Set a mesquite post, 4 ins sq., 4 ft long, 3 ft in ground for ¼ Sec cor, marked ¼ S 15 on N face, ~~whence~~ and 22 on S face.
A mesquite, 10 ins in diam, bears N 72½° W, 190 lks dist, marked ¼ S 15 B.T.
A mesquite, 8 ins in diam, bears S 8¼° E, 239 lks dist, marked ¼ S 22 B.T.
46.87 Intersect the E Bdy of Camp Mohave Indian Reservation at South 1° 42' W, 2 chs from the 8 Mile Post.
Set a mesquite post, 6 ins sq., 4 ft long, 3 ft in ground for closing cor of fractional Secs 15 and 22, marked
T 18 N, S 15 on N face
C.C. R 22 on E face
S 22 on S face
C.M.I.R. on W face, whence
A mesquite post, 8 ins in diam, bears N 57° E, 307 lks dist, marked T 18 N, R 22 W, S 15 C.C.B.T.
A mesquite 12 ins in diam, bears S 21¾° E, 173 lks dist, marked T 18 N, R 22 W, S 22 C.C.B.T.
Soil, sandy loam, first rate.
Land, level, covered with scattering mesquite timber and dense undergrowth of arrow wood, 46.87 chs.
December 22nd, 1905.

December 23rd, 1905.
At 8h.a.m.l.m.t., I set off 34° 52' N on the lat arc, 23° 22' S on the decl arc and determine the true meridian at the cor of Secs 14, 15, 22 and 23.
Thence I run
South 89° 59' E on a random line between Secs 14 and 23, through scattering mesquite timber and dense undergrowth of arrow wood.
40.00 Set temporary ¼ Sec cor.
80.00 Intersect Sec line at 16 lks North of cor of Secs 13, 14, 23 and 24.
Thence I run
North 89° 52' W on a true line bet Secs 14 and 23.
40.00 Set a mesquite post, 4 ins sq., 4 ft long, 3 ft in ground for ¼ Sec cor, marked ¼ S on N face, ~~whence~~, and 23 on S face
A mesquite, 12 ins in diam, bears S 4¼° E, 21 lks dist, marked ¼ S 23 B.T.
A mesquite, 12 ins in diam, bears N 55½° W, 120 lks dist, marked ¼ S 14 B.T.

chains	
41.00	Cross road, course N and S
68.00	Cross main canal, 20 ft base, 4 ft deep, course S.
75.79	Cross road, course SE-NW
80.00	Tne cor Secs, 14, 15, 22 and 23.
	Soil, sandy loam, first rate.
	Land, level, covered with scattering mesquite timber and dense undergrowth of arrow wood, 80.00 chs. ✓

	Thence I run
	North 0° 1' W bet Secs 14 and 15, through scattering mesquite timber and dense undergrowth.
33.00	Cross main canal, course SE, base 20 ft, depth 4 ft.
38.85	Cross road, course E and W
40.00	Set a mesquite post, 4 ins sq., 4 ft long, 3 ft in ground for ¼ Sec cor, marked ¼ S on 15 W face, ~~whence~~ and 14 on E face
	A mesquite, 12 ins in diam, bears N 18¾° W, 190 lks dist, marked ¼ S 15 B.T.
	A mesquite, 15 ins in diam, bears N 5½° E, 253 lks dist, marked ¼ S 14 B.T.
49.00	Cross lateral from main canal, 6 ft base, 4 ft deep, course E.
50.00	Cross fence, course E and W
54.00	Enter cultivated land lying E and W of line
70.00	Leave cultivated land.
71.25	Whence, C. J. Brunk's Ranch House bears W 150 lks dist.
77.00	Enter heavy mesquite timber.
80.00	Set a mesquite post, 6 ins sq., 4 ft long, 3 ft in ground for cor of Secs 10, 11, 14 and 15, marked
✓	T 18 N, S 11 on NE
	R 22 W, S 14 on SE
	S 15 on SW
	S 10 on NW faces, with 4 grooves on S and 2 grooves on E edges, whence
	A mesquite, 10 ins in diam, bears N 17° E, 15 lks dist, marked T 18 N, R 22 W, S 11 B.T.
	A mesquite, 4 ins in diam, bears S 59° E, 148 lks dist, marked T 18 N, R 22 W, S 14 B.T.
	A mesquite, 8 ins in diam, bears S 13½° W, 69 lks dist, marked T 18 N, R 22 W, S 15 B.T.
	A mesquite, 12 ins in diam, bears N 77½° W, 48 lks dist, marked T 18 N, R 22 W, S 10 B.T.
	Soil, sandy loam, first rate.
	Land, level, covered with mesquite timber and dense undergrowth, 64.00 chs.
	Cultivated land, 16:00 chs.

	Thence I run
	West bet Secs 10 and 15, tnrough mesquite timber and dense undergrowth.
9.50	Enter cultivated land.
25.00	Leave cultivated land, cross fence, course N and S
~~21.25~~ 21.25	Land cultivated by Frank Cavin.
40.00	Cross main canal, 20 ft base, 4 ft deep, course S
	Set a Mesquite post, 4 ins sq., 4 ft long, 3 ft in ground for ¼ Sec cor, marked ¼ S 10 on N face, ~~whence~~ and 15 on S face
	A mesquite, 9 ins in diam, bears S 5~~7~~½° E, ~~54~~ 53 lks dist, marked ¼ S 15 B.T.
	A mesquite, ~~14~~ 10½ ins in diam, bears N ~~9½°~~ 10½° E, ~~70~~ 69 lks dist, marked ¼ S, 10 B.T.
45.50	Intersect E bdy of Camp Mohave Indian Reservation at South 1°4~~2~~8W, 182 lks from 7 Mile post.
	Set a mesquite post, 5 ins sq. 4 ft long, 3 ft in ground for closing cor of fractional Secs 10 and 15, marked
	C.C. R 22 W on E
	T 18 N, S 10 on N
	S 15 on S
	C.M.I.R. on W faces, whence

chains

A mesquite, 8 ins in diam, bears S 47¼° E, 398 lks dist, marked T 18 N, R 22 W, S 15, C.C.B.T.
A mesquite, 15 ins in diam, bears N 55° E, 366 lks dist, marked T 18 N, R 22 W, S 10, C.C.B.T.
Soil, sandy loam, first rate.
Land, level, covered with mesquite timber and dense undergrowth of arrow wood, 34.75 chs.
Cultivated land, 10.75 chs.
December 23rd, 1905.

December 24th, 1905.
At 8h.a.m.l.m.t., I set off 34° 53' N on the lat arc, 23° 22' S on the decl arc and determine a true meridian with the Solar at the cor of Secs 11, 12, 13 and 14.
Thence I run
South 89° 49' E on a random line bet Secs 12 and 13 through heavy mesquite timber and dense undergrowth.

40.00 Set temporary ¼ Sec cor.

79.92 Intersect range line at South 15 lks from cor of Secs 7, 12, 13, and 18.
Thence I run
North 89° 55' W on a true line bet Secs 12 and 13.

19.00 Cross road, course SE-NW

39.96 Set a mesquite post, 4 ins sq., 4 ft long, 3 ft in ground for ¼ Sec cor, marked ¼ S 12 on N face, ~~whence~~ and 13 on S face
A mesquite, 6 ins in diam, bears S 14¼° E, 112 lks dist, marked ¼ S 13 B.T.
A mesquite, 14 ins diam bears N 13¼° E, 128 lks dist, marked 1/4 S 12 B.T.

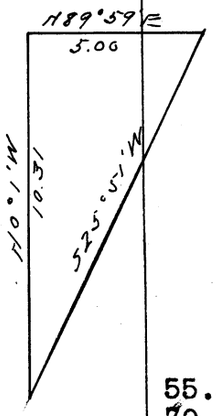
74.00 Cross road, course NE-SW

79.92 The cor of Secs 11, 12, 13 and 14.
Soil, sandy loam, first rate.
Land, level, covered with mesquite timber and dense undergrowth of arrow wood, 79.92 chs.

Thence I run
North 0° 1' W bet Secs 11 and 12, through heavy mesquite timber and dense undergrowth.

40.00 Set a mesquite post, 4 ins sq. 4 ft long, 3 ft in ground for ¼ Sec cor, marked ¼ S on W face, ~~whence~~ and 12 on E face.
A mesquite, 6 ins in diam, bears N 51½° E, 75 lks dist, marked ¼ S 12 B.T.
A mesquite, 5 ins in diam, bears N 82½° W, 56 lks dist, marked ¼ S 11 B.T.

45.20 To South edge of Salt Slough, course SE-NW, water about 2 ft deep. In order to measure dist across slough, I set a flag on N bank. It being impracticable to measure base on the S side of slough, I set a flag at the 45.20 ch point and go to the flag on N bank, then measure a base line N 89° 59' E, 5 chs to point, flag from E end of base bears S 25° 51' W. Therefore the angles taken in order of measurement are respectively 90°, 64° 8', and 25° 52', the sum of which is 180°. I compute the dist across the slough as follows:



Tang. 64° 8' x base or 2.06247 x 5.00chs = 10.31 chs
45.20chs + 10.31chs = 55.51chs

55.51 North side of slough.

70.00 Leave timber, enter dense undergrowth.

80.00 Set a granite stone, 16 x 8 x 6 ins, 12 ins in ground for cor of Secs 1, 2, 11 and 12, stone marked 5 grooves on S and 1 groove on E edges. Raised a mound of stones 2 ft base, 1½ ft high W of cor. No trees, pits impracticable.
Soil, sandy loam, first rate.
Land, level, covered with mesquite timber and dense undergrowth, 80.00 chs.

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chains	
	Thence I run
	South 89° 55' E on a random line bet Secs 1 and 12
40.00	Set temporary ¼ Sec cor
79.92	Intersect range line at 2 lks South of cor of Secs 1, 6, 7 and 12.
	Thence I run
	North 89° 56' W on a true line between Secs 1 and 12, over a level mesa country, sloping to the S and W
39.96	Set a lava stone 18 x 8 x 6 ins, ~~24~~ ins in ground for ¼ Sec cor, marked ¼ on N face. Raised a mound of stone 2 ft base, 1½ ft high, N of cor. No trees, pits impracticable.
45.20	Cross road, course NE-SW
55.90	Cross gulch, 100 lks wide, course S
75.00	Leave mesa, descend abruptly into Mohave Valley.
79.92	The cor of Secs 1, 2, 11 and 12.
	Soil, sandy loam, first rate.
	Land, level, very little vegetation, comprised of grease wood, principally.
	December 24th, 1905.

December 26th, 1905.

At 8h.a.m.l.m.t., I set off 34° 53' N on the lat arc, 23° 19' 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

South 89° 52' E on a random line bet Secs 11 and 14 through heavy mesquite timber and dense undergrowth.

40.00	Set temporary ¼ Sec cor.
80.00	Intersect Sec line at 3 lks S of cor of Secs 11, 12, 13 and 14.
	Thence I run
	North 89° 53' West on a true line bet Secs 11 and 14.
40.00	Set a mesquite post, 4 ins sq, 4 ft long, 3 ft in ground for ¼ Sec cor, marked ¼ S 11 on N face, ~~whence~~ and 14 on W face
	A mesquite, 12 ins in diam, bears N 48½° E, 34 lks dist, marked ¼ S 11 B.T.
	A mesquite, 8 ins in diam, bears S 28½° E, 138 lks dist, marked ¼ S 14 B.T.
	Whence D. M. Martin's Ranch House bears S16½° E 21 chs dist.
43.15	Cross road, course N and S
43.25	Cross fence, course N and S
80.00	The cor of Secs 10, 11, 14 and 15.
	Soil, sandy loam, first rate.
	Land, level, covered with heavy mesquite timber and dense undergrowth, 80.00 chs.

Thence I run

North 0°1' W bet Secs 10 and 11, through heavy mesquite timber and dense undergrowth.

39.75	Enter cultivated land, lying E and W of line.
40.00	Set a mesquite post, 4 ins sq., 4 ft long, 3 ft in ground for ¼ Sec cor, marked ¼ S 10 on W face, ~~whence~~ and 11 on E face.
	A mesquite 6 ins in diam, bears S 50½° E, 129 lks dist, marked ¼ S 11 B.T.
	A mesquite, 6 ins in diam, bears S 33° W, 165 lks dist, marked ¼ S 10 B.T.
45.00	Leave cultivated land, enter heavy timber.
62.00	Enter cultivated land, leave timber.
66.00	Leave cultivated land, enter mesquite timber.
80.00	Set a mesquite post, 4 ins sq., 4 ft long, 3 ft in ground for cor of Secs 2, 3, 10 and 11, marked
	T 18 N S 2 on NE
	R 22 W, S 11 on SE
	S 10 on SW
	S 3 on NW faces, with 5 grooves on S and 2 grooves on E edges, whence

chains

A mesquite post 8 ins in diam, bears N 79¼° E, 65 lks dist, marked T 18 N, R 22 W, S 2 B.T.
A mesquite, 6 ins in diam, bears S 24¼° E, 117 lks dist, marked T 18 N, R 22 W, S 11 B.T.
A mesquite, 8 ins in diam, bears S 31¼° W, 115 lks dist, marked T 18 N, R 22 W, S 10 B.T.
A mesquite, 12 ins in diam, bears N 58¼° W, 112 lks dist, marked T 18 N, R 22 W, S 3 B.T.
Soil, sandy loam, first rate.
Land, level, covered with heavy mesquite timber and dense undergrowth, 70.75 chs.
Culitvated land, 9.25 chs.

Thence I run
West bet Secs 3 and 10, through mesquite timber and dense undergrowth.
21.50 Cross main canal, 2 0 ft base, 5 ft deep, course S
22.10 Cross fence, course N and S
40.00 Set a mesquite post 4 isn sq., 4 ft long, 3 ft in ground for ¼ Sec cor, marked ¼ S 3 on N face, ~~whence~~ and 10 on S face.
A mesquite, 6 ins in diam, bears N 84¾°W, 91 lks dist, marked ¼ S 3 B.T.
A mesquite 8 ins in diam, bears S 60½° W, 145 lks dist, marked ¼ S 10 B.T.
44.23 Intersect E bdy Camp Mohave Indian Reservation at S 1° 4½W, 2.12 chs from 6 Mile Post.
Set a mesquite post, 4 ins sq., 4 ft long, 3 ft in ground for closing cor of fractional Secs 3 and 10, marked T 18 N, S 3 on N face; R 22 W, on E face; S 10 on S face; C.M.I.R. on W face, whence
A mesquite 5 ins in diam, bears S.33¼°E, 140 lks dist, marked T 18 N, R 22 W, S 10 C.C.B.T.
A mesquite, 5 ins in diam, bears N.41½° E, 173 lks dist, marked T 18 N, R 22 W, S 3 C.C.B.T.
Soil, sandy loam, first rate.
Land, level, covered with heavy mesquite timber and dense undergrowth of arrow wood, 44.23 chs.
December 26th, 1905.

December 27th, 1905.
At 8h.a.m.l.m.t., I set off 34° 54' N on the lat arc, 23°~~7'10~~'S on the decl arc and determine a true meridian at the cor of Secs 2, 3, 10 and 11.
Thence I run
South 89° 53' E on a random bet Secs 2 and 11.
40.00 Set temporary ¼ Sec cor
79.96 Intersect Sec line at N 8 lks from cor of Secs 1, 2, 11 and 12.
Thence I run
North 89° 50' W on a true line bet Secs 2 and 11, through heavy mesquite timber and dense undergrowth.
39.98 Set a mesquite post, 4 ins sq. 4 ft long, 3 ft in ground for ¼ Sec cor, marked ¼ S 2 on N face, ~~whence~~ and 11 on S face
A mesquite, 8 ins in diam, bears N ~~54½°~~ E, ~~24~~ lks dist, marked ¼ S 2 B.T.
A mesquite, 10 ins in diam, bears S 3~~7½~~° E, ~~54~~ lks dist, marked ¼ S 11 B.T.
46.50 Cross road, course N and S
47.50 Cross fence, course N and S
79.96 The cor of Secs 2, 3, 10 and 11.
Soil, sandy loam, first rate.
Land, level, covered with heavy mesquite timber and dense undergrowth of arrow wood, 79.96 chs.

Thence I run
North 0° 1' W on a random line bet Secs 2 and 3
40.00 Set temporary ¼ Sec cor.
80.09 Intersect Tp line at 5 lks E of cor of Secs 2, 3, 34 and 35.

chains

Thence I run
South 0° 3' E on a true line bet Secs 2 and 3, over level mesa country, sloping to the S

40.09 Set a granite stone 16 x 8 x 6 ins, 12 ins in ground for ¼ Sec cor, marked ¼ on W face. Dig pits 18 x 18 x 12 ins, 3 ft N and S of cor. Raised mound of earth, 3½ ft base, 1½ ft high W of cor.

55.00 Edge of Mesa, descend abruptly into Mohave Valley.

57.00 Enter Mohave Valley, through heavy mesquite timber and dense undergrowth.

73.59 Cross fence, course E and W

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

Soil, sandy loam, first rate.
Level mesa land 57.00 chs.
Bottom land, covered with heavy mesquite timber and dense undergrowth, 23.09 chs.

At 3h. p.m.l.m.t., I set off 34° 54' N on the lat arc, 23° 18' S on the decl arc and determine a true meridian at the cor of Secs 1, 2, 11 and 12.

Thence I run
North 0° 1' W on a random line bet Secs 1 and 2, over a level mesa country.

40.00 Set temporary ¼ Sec cor.

79.93 Intersect Tp line at 2 lks E of cor of Secs 1, 2, 35 and 36.

Thence I run
South 0° 2' E on a true line bet Secs 1 and 2.

39.93 Set a granite stone, 16 x 8 x 6 ins, 12 ins in ground for ¼ Sec cor, marked ¼ on W face. Raised mound of stones, 2 ft base, 1½ ft high, W of cor. No trees, pits impracticable.

74.00 53.40 Cross road, course SE-NW Edge of Mesa, descend abruptly into Mohave Valley.

79.93 The cor of Secs 1, 2, 11 and 12.

Soil, sandy loam, first rate.
Land, level, mesa country, very little vegetation. No timber.

December 27th, 1905.

Meanders, T 18 N., R 22 W.

Meanders of the Left Bank of the Colorado River. Up Stream.

I commenced at the meander cor on Tp line of fractional secs 4 and 33, which I previously set.

At this cor December 28th, I set off 34° 50' N on the lat arc, 23° 14' S on the decl arc and at 8h.a.m. l.m.t., determine a true meridian with the Solar.

Thence I run with Meanders in Sec 33, through dense undergrowth and scattering timber.

N 6¼° W	3.70 chs	Bank 4 ft high
N 9½° E	4.80 "	
N 42¼° E	13.20 "	
N 45° E	3.50 "	
N 53° E	8.70 "	
N 22½° E	6.10 "	
N 3[illegible]° E	14.20 "	
N 37° E	7.40 "	
N 44½° E	5.10 "	
N 34¼° E	8.00 "	
N 29¼° E	2.40 "	
N 22¼° E	3.82 "	To mean. Cor fractional Secs 33 and 34

Soil, sandy loam, first rate.
Land, level, subject to overflow, covered with scattering willow, mesquite and cottonwood timber and dense undergrowth, 80.92 chs.

Meanders Left Bank of Colorado River, Up Stream.

Thence I run with Meander in Sec 34, through scattering timber and dense undergrowth.

N 10° 26' E	14.10 chs	To Meander cor fractional Secs 27 and 34. River bank about 5 ft high.

Soil, sandy loam, first rate.
Land, level, covered with scattering mesquite, cottonwood and willow timber and dense undergrowtn of arrow wood. The channel of river is close in to bank and cutting.

Thence in Sec 27, through scattering timber and dense undergrowth.

N 11° 50' W	12.13 chs	To Meander cor of fractional Secs 27 and 28.

Soil, sandy loam, first rate.
Land, level, subject to overflow, covered with scattering timber and dense undergrowtn, 12.13 chs. River bank about 5 ft high.

Thence in Sec 28, through scattering timber and dense undergrowth.

N 29° W	2.60 chs	
N 23½° W	5.90 "	
N 24½° W	7.70 "	
N 23½° W	7.50 "	
N 34½° W	8.10 "	
N 38 ° W	8.10 "	
N 40½° W	5.10 "	
N 33½° W	8.40 "	
N 41½° W	3.20 "	
N 32½° W	4.00 "	Indian house bears N 7° E, 3 chs dist. Indian house bears N 58° E, 9.50 chs dist.
N 35½° W	12.60 "	
~~N 56½° W~~ N 65½° W	8.00 "	
N 38½° W	4.02 "	To Meander cor on line bet Secs 21 and 28.

Soil, sandy loam, first rate.
Land, level, covered with scattering timber, willow, cottonwood and mesquite, and desne undergrowtn of arrow wood, 85.22 chs. River bank about 4 ft high.

Thence in Sec 21

N 53° W	21.40 chs	
N 55° W	7.20 "	
N 38° 35' W	2.46 "	To SW cor of Camp Mohave Indian Reservation, Meander cor

Soil, sandy loam, first rate.
Land, level, subject to overflow, covered with scattering mesquite, cottonwood and willow timber and dense undergrowth, 31.06 chs. River bank about 4 ft high.

December 28th, 1905.

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chains

General Description

This Township is nearly all river bottom land, there being about 2½ Sections in the Northeast cor of level mesa land. The Southern portion of the Township is nearly all overflowed land, the Northern half being less subject to overflow.

The soil is a sandy loam, containing some alkali and produces crops after the subsidance of the annual overflow without irrigation.

Cottonwood, willow and mesquite timber cover the entire Township, excepting the Northeastern portion, in places very heavy. The undergrowth of arrow wood is very dense in most parts.

There is one white settler in Sec 13, three in Sec 14, one in Sec 15, one in Sec 10, one in Sec 23, one in Sec 22, one in Sec 35; also a number of Indian families along the River in Secs 28, 21 and 22.

John J Fisher
U. S. Deputy Surveyor.

Chains.

Thence I run from M. C. bet. secs. 31 and 36. With meanders in sec. 36. T. 18 N. R. 22 W., through heavy mesquite and willow timber and dense undergrowth.

N. 30 1/2° W.	5.40 chs.	
N. 36 1/2° W.	5.60 chs.	
N. 50 1/4° W.	4.50 chs.	
N. 45 3/4° W.	2.90 chs.	
N. 61 1/4° W.	5.90 chs.	
N. 56 3/4° W.	3.90 chs.	
N. 82° W.	3.60 chs.	To upper end of lake, the continuation being a marshy slough, extending to the NW. which at ordinary times is dry.
N. 54 1/4° E.	14.40 chs.	Cross upper end of lake and lower end of slough. Bank about 6 ft. high.
S. 52 1/2° E.	3.00 chs.	
S. 53° E.	6.60 chs.	
S. 45 1/2° E.	2.10 chs.	
S. 49 1/4° E.	2.21 chs.	To meander cor. on NE. edge of lake, bet. secs. 31 & 36

Soil, sandy loam, first rate.
Land, level and marshy, 31.80 chs. covered with heavy mesquite and willow timber and dense undergrowth, 28.31 chs.
Scattering mesquite timber.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

1899

BOOK 2135

LIST OF NAMES.

A list of the names of the individuals employed by John J Ferber, 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 18 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 Angier, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted John J Ferber, United States Deputy Surveyor, in surveying all those parts or portions of the Subdivisional and Meander lines T 18 N R 22 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

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

Subscribed and sworn to before me this 14th day of January, 1906

J. J. Ferber
Notary Public

SEAL

My commission expires May 17 1908

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BOOK 2135

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 A Ingalls United States Surveyor General for Arizona, bearing date of the 14th 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. 18 N., R 22 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 J Fisher
United States Deputy Surveyor.

Subscribed by said John J Fisher, and sworn to before me this 1st day of February, 1906

Frank A Ingalls
U.S. Surveyor General
for Arizona

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona June 15th, 1906

The foregoing field notes of the survey of the subdivisional and meander lines of T. 18 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 14th 1905, ~~190~~, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank A 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.~~

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