

2130

BOOK 2130

FIELD NOTES

2130

OF THE SURVEY OF THE

2130

*Subdivisional and Meander Lines
T16 N R 21 W*

2130

Of the *Gila & Salt River* Meridian,

AS SURVEYED BY

John J. Fisher

, United States Deputy Surveyor,

Under his Contract No. *128*, dated *March 14th*, 18*65*

Survey commenced *April 17th*, 18*65*

Survey completed *May 4th*, 18*65*

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(1A)

BOOK 2130

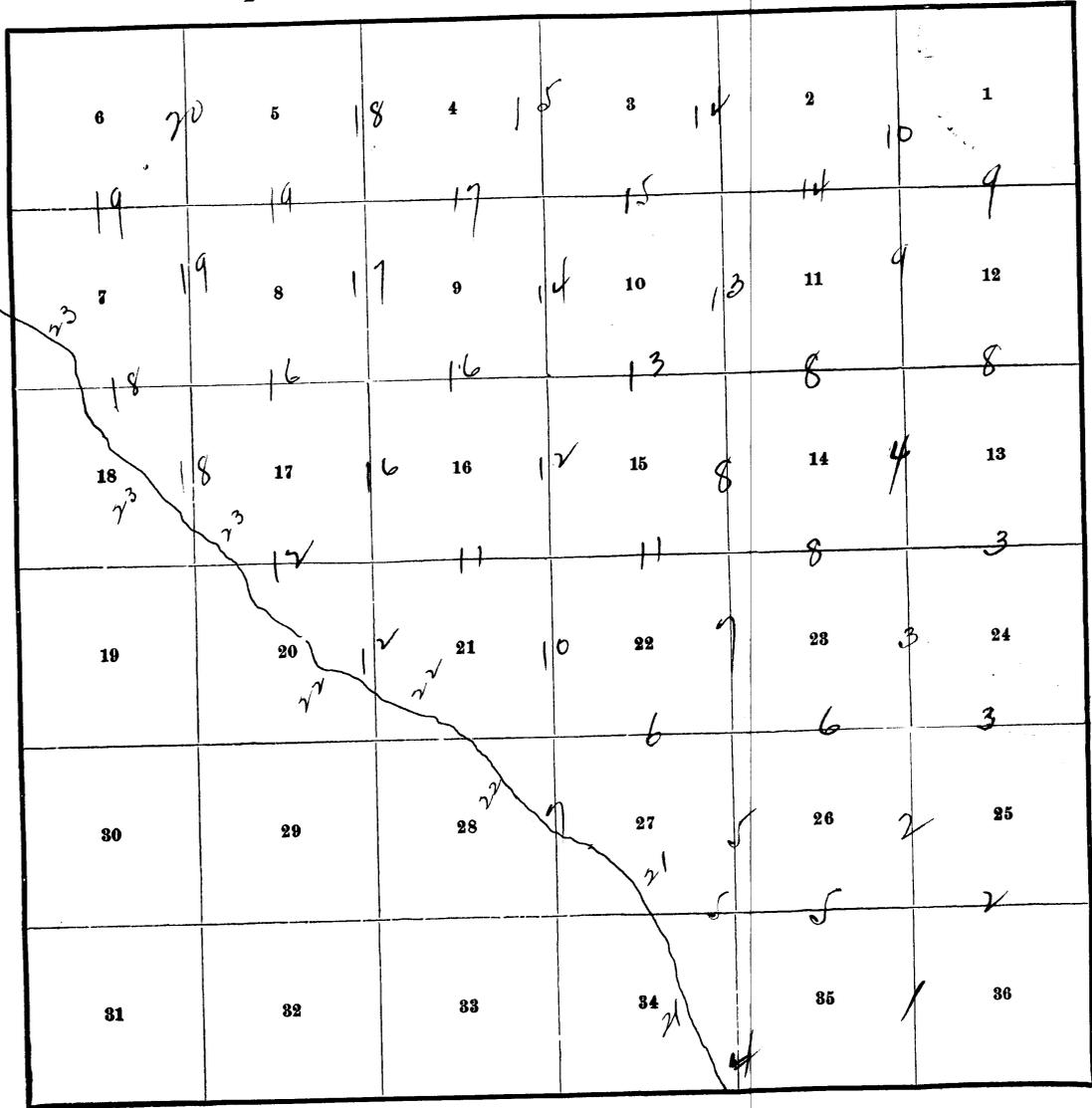
NAMES AND DUTIES OF ASSISTANTS.

Henry R. O'Connor	Summer
Geo W. Cassidy	Summer
Henry R. O'Connor	Winter
Geo. W. Cassidy	Winter
J. J. Murphy	Exam
J. W. Rickeltes	Exam
Iving J. Ayer	Hayman

BOOK 2130

INDEX DIAGRAM.

Township 16 N., Range 21 W.



Meanders Page 21-23

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BOOK 2130

PRELIMINARY OATHS OF ASSISTANTS.

WE, Henry R O'Connor and Geo W Leassidy

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 16 N R 21 W

Henry R O'Connor, Chainman.

Geo W Leassidy, Chainman.

Subscribed and sworn to before me this 13th
day of April, 1895



My commission expires

May 9 1898

J. J. Fisher
Notary Public

WE, Henry R O'Connor and Geo. Leassidy

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 16 N R 21 W

Henry R O'Connor, Moundman.

Geo W Leassidy, Moundman.

Subscribed and sworn to before me this 13th
day of April, 1895



My commission expires

May 9 1898

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 16 N R 21 W

J. J. Murphy, Axman.

J. W. Ricketts, Axman.

Subscribed and sworn to before me this 13th
day of April, 1895



My commission expires

May 9 1898

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 16 N R 21 W

Irving V. Auger, Flagman.

Subscribed and sworn to before me this 13th
day of April, 1895



My commission expires

May 9 1898

J. J. Fisher
Notary Public

Chains

Survey commenced April 17, 1905 and executed with a W. & L. E. Gurley Light Mountain Transit, not numbered, with 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 latitude and declination arcs. The instrument was examined, tested on the true meridian at Phoenix, found correct, and was approved by the Surveyor General of Arizona March 15, 1905.

I examined the adjustments 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:-

At the cor. of Secs. 1, 2, 35 and 36, Tps. 15 and 16 N., R. 21 W. in lat. $34^{\circ}39'18''$ N. in long. $114^{\circ}26'44''$ W. ^{25' W}
I set off $34^{\circ}39'$ N. on the lat. arc and $10^{\circ}31'$ N. on the decl. arc and at 4h.p.m. l.m.t. determined with the solar a true meridian and mark a point thereof on a stone firmly set in the ground 5 chs. N. of the cor.

April 17, 1905.

April 18. At ~~5h.36.8m~~ ^{5h.41m} P.M. by my watch which has correct l.m.t. I observed Polaris at its Eastern elongation in accordance with the Manual of Instructions and mark a point in the line thus determined on a plug driven in the ground 5 chs. N. of my station.

At 6h.45m. a.m. l.m.t. I lay off the azimuth of Polaris $1^{\circ}28'$ to the W. and mark the true meridian thus determined by cutting a small groove in the stone set April 17 on which the true meridian falls 0.3 ins. E. of the mark determined by the solar.

At 7h. a.m. l.m.t. I set off $34^{\circ}39'$ on the lat. arc and $10^{\circ}45'$ N. on the decl. arc and mark a point in the true meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station, this mark falls 0.2 ins. E. of the true meridian established by Polaris observation.

The solar apparatus by p.m. and a.m. observation defines positions for true meridians respectively about $0'16''$ W. and $0'11''$ E. of the meridian established by Polaris observation; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the said true meridian is $N.15^{\circ}$ W. which gives the magnetic decl. 15° E.

From the cors. Secs. 1, 2, 35 and 36 I run $N.0^{\circ}1'$ W. between Secs. 35 and 36

Descend

9.50 Cross canon 60 lks. wide, course S.W.

Ascend

12.50 Cross ridge, course S.W. and N.E.

Descend

40.00 Set a lava stone $18 \times 12 \times 8$ ins. ¹² ins. in ground for $1/4$ sec. cor. marked $1/4$ on W. face, raised mound of stone 2 ft. base 1.5 ft. high W. of cor.

No trees, pits impracticable.

48.00 Cross gulch 50 lks. wide, course S.W.

Ascend

55.00 Top of Ridge, course S.W. and N.E.

Descend

63.00 Cross gulch 60 lks. wide, course S.W.

72.00 Cross telegraph line, course N.E. and S.W.

72.60 Cross telegraph line, course N.E. and S.W.

Chains

73.25 Cross S.F.P.Railway, course NE. and S.W.
 80.00 Set a lava stone 16x8x6 ins. // ~~12~~ ins. in ground for cor.
 Secs. 25, 26, 35 and 36 marked 1 groove on S. and E.
 faces; dig pits 18x18x12 ins. in each sec. 5.5 ft.
 dist. and raised mound of earth 4 ft. base 2 ft. high
 W. of cor.
 No trees
 Soil rocky and sandy loam, first and fourth rates,
 Land rolling mountaineous
 Mountaineous land 80.00 chs.

Thence I run E. on a random line between Secs. 25 and
 36
 40.00 Set temporary 1/4 Sec. cor.
 80.00 Intersect E. boundary of Tp., 2 lks. N. of cor. Secs. 25, 30,
 31 and 36,

Thence I run
 N. 89° 59' W. on a true line between Secs. 25 and 36, over
 rolling mountaineous land sloping to the N. and W.
 40.00 Set a lava stone 18x12x10 ins. // ~~12~~ ins. in ground for 1/4
 Sec. cor. marked 1/4 on N. face, raised a mound of
 stones 2 ft. base, 1.5 ft. high, N. of cor.

No trees, pits impracticable.
 68.40 Cross telegraph line, course N.E. and S.W.
 69.00 Cross telegraph line, course N.E. and S.W.
 69.95 Cross S.F.P.R.R. course N.E. and S.W.
 80.00 The cor. Secs. 25, 26, 35 and 36.
 Soil rocky and sandy, second and fourth rates.
 Land rolling mountaineous,
 Mountaineous land 80.00 chs.

April 18. At 2h.p.m. I set off ³⁴⁻⁴⁰ ~~34-42~~ N. on
 the lat. arc and 10° 50' N. on the decl. arc and deter-
 mine a true meridian with the solar at the cor. of
 Secs. 25, 26, 35 and 36.

Thence I run
 N. 0° 1' W. between Secs. 25 and 26
 Descend

22.50 Enter Sacramento Wash, course S.W.

27.50 Leave Wash

39.20 Set a granite stone 18x10x8 ins. // ~~14~~ ¹² ins. in ground for
 W.C. 1/4 Sec. cor. marked 1/4 W.C. on W. face and
 raised a mound of stones 2 ft. base 1.5 ft. high W.
 of cor.

Whence a Palo Verde 6 ins. diam. bears S. 27° 45' W. 114 lks.
 dist. scribed 1/4 S. 26 B.T.W.C.

A Palo Verde 6 ins. diam. bears S. 81° E. 87 lks. dist.
 scribed 1/4 S. 25 B.T.W.C.

40.00 The true point for cor. falls in dry water course of
 Sacramento Wash an unsuitable place to establish a
 permanent corner.

43.00 Leave Sacramento Wash, course N.E. and S.W.

Ascend steep side of mountain

80.00 Top of Ridge, course E. and W. // ~~15~~

Set a lava stone 20x10x8 ins. // ~~16~~ ins. in ground for cor.
 of Secs. 23, 24, 25 and 26, stone marked 1 groove on E.
 and 2 grooves on S. faces, raised a mound of stones
 2 ft. base, 1.5 ft. high W. of cor.

No trees, pits impracticable.
 Soil gravelly, third rate,
 Land 20 chs. level, 60 chs. mountaineous.
 Mountaineous land 60.00 chs.

April 18, 1905.

Subdivisions of Tp. 16 N., R. 21 W., continued.

Chains	
	<p><i>at 8h. 30m. am. lmt. I set off 11° 6' N on decl. arc</i> <i>34° 41' N on lat arc and determine a true meridian</i> <i>with the solar.</i></p> <p>April 19, 1905 Thence I run S. 89° 59' E. on a random line between Secs. 24 and 25</p>
40.00	To temporary 1/4 sec. cor.
79.95	Intersect Range line at N. 25 lks. from Witness cor. which makes a falling of 2 lks. S. of true point for cor.
80.80 80.00	Thence I run from true cor. point S. 89° 56' W. <i>along North Slope</i> Set a lava stone 18x10x8 ins. 12 ins. in ground for witness cor. to Secs. 19, 24, 25 and 30 marked 4 grooves on N., 2 grooves on S. and W.C. on W. face, raised a mound of stones 2 ft. base, 1.5 ft. high, W. of cor.
39.975	Set a lava stone 18x10x8 ins. 14 ins. in ground for 1/4 Sec. cor. marked 1/4 on N. face, raised a mound of stones 2 ft. base, 1.5 ft. high N. of cor.
79.95	No trees, pits impracticable. The cor. Secs. 23, 24, 25 and 26. Soil rocky, fourth rate Land mountainous Mountainous land 79.95chs.

	Thence I run N. 0° 1' W. between Secs. 23 and 24 over rough mountainous land Descend
26.00	Cross gulch 30 lks. wide, course S.W. Ascend
40.00	Set a lava stone 20x10x6 ins. ¹⁵ ins. in ground for 1/4 Sec. cor. marked 1/4 on W. face and raised a mound of stones 2 ft. base, 1.5 ft. high W. of cor.
42.00	No trees, pits impracticable. Cross summit of ridge, course E. and W. Descend
60.00	Cross gulch 50 lks. wide, course S.W. Ascend for cor. Secs. 13, 14, 23 and 24
80.00	Set a lava stone 20x10x8 ins. 16 ins. in ground, marked 1 groove on E. and 3 grooves on S. faces, raised mound of stones 2 ft. base, 1.5 ft. high W. of cor. No trees, pits impracticable. Soil gravelly, third rate, Land rolling mountainous, Mountainous land 80.00 chs. ✓

	April 19, at the above cor. I set off 11° 9' N. on the decl. arc and at 12h. m. l. m. t. observed the sun on the meridian, the resulting latitude is 54° 40' which is 3.6" more than the true latitude. <i>34° 42' N</i>
	Thence I run N. 89° 56' E. on a random between Secs. 13 and 24
40.00	Set temporary 1/4 sec. cor.
79.80	Intersect Range line at N. 10 lks. from cor. Secs. 13, 18, 19 and 24 ✓
	Thence I run W. on a true line between Secs. 13 and 24 Descend over smooth mountainous country sloping to W.
39.90	Set a lava stone 28x8x8 ins. 21 ins. in ground for 1/4 Sec. cor. marked 1/4 on N. face and raised a mound of stones 2 ft. base, 1.5 ft. high N. of cor.
	No trees, pits impracticable. Descend
64.00	Cross canon 40 lks. wide, course S.W. Ascend
79.80	The cor. Secs. 13, 14, 23 and 24. Soil rocky, third rate, Land rolling mountainous, Mountainous land 79.80 chs. ✓

Chains

Thence I run N. 0°1'W. over rough broken country, between Secs. 13 and 14,

Ascend

40.00 Set a lava stone 24x12x5 ins. 18 ins.in ground for 1/4 Sec.cor. marked 1/4 on W. face, raised a mound of stones 2 ft. base, 1.5 ft. high W. of cor.

Ascend

80.00 Set a lava stone 18x8x8 ins. 14 ins.in ground for cor. Secs. 11,12,13 and 14, stone marked 1 groove on E. and 4 grooves on S. faces; dug pits 18x18x12 ins.5.5 feet.dist.in 4 secs. raised mound of earth 4 ft. base 2 ft.high W. of cor.

No trees

Soil gravelly, third rate,

Land rolling mountaineous,

Mountaineous land 80.00 chs.

April 19, 1905.

April 20, 1905. At 7h.a.m.1/m.t. I set off 34°39' N. on the lat.arc and 11°47'N. on the decl.arc and determine a true meridian with the solar at the true point for Secs. 2,3,34 and 35, Tps.15 and 16 N., R. 21 W., which point falls W. 1.37 chs. from meander cor. previously set, being on a sand bar in the bed of the Colorado River.

8.24 Thence I run N.0°1'W. between Secs.34 and 35 from cor. point. To bank of Colorado River 4 ft.high where I set a willow post 4 ins.sq. 4 ft.long, 3 ft.in ground for meander cor.between Secs. 34 and 35 marked M.C.on S., T.16 N.R.21 W.on N., S.34 on W. and S.35 on E. faces; dig pit 36x36x12 ins. 8 ft.N., raised mound of earth 4 ft.base, 2 ft.high N.of cor.

No trees

Enter brush

10.05 Cross fence, course E. and W.

16.80 Cross fence, course E. and W.

40.00 Set a lava stone 20x15x12 ins. 15 ins.in ground for 1/4 Sec.cor. marked 1/4 on W.,

Whence a Palo Verde 6 ins.diam.bears S.76°15'W.104 lks. dist. marked 1/4 S.34 B.T.

A mesquite 7 ins.diam. bears S.53°E.144 lks.dist. marked 1/4 S.35 B.T.

48.00 Enter Sacramento Wash, dry, course S.W.

61.00 Leave Sacramento Wash,

80.00 Set a lava stone 18x8x6 ins. 12 ins.in ground, for cor. Secs. 26,27,34 and 35, marked 2 grooves on E. and 4 grooves on S. faces

Whence a Willow 8 ins.diam.bears N.82°30'W. 72 lks. dist.marked T.16 N.R.21 W.S.27 B.T.

A mesquite 9 ins.diam.bears N.82°E. 39 lks.dist. marked T.16 N.R.21 W.S.26 B.T.

A mesquite 4 ins.diam.bears S.54°E. 23 lks.dist. marked T.16 N.R.21W.S.35 B.T.

A mesquite 5 ins.diam.bears S.36°45'W. 85 lks.dist. marked T.16N.R.21 W.S.34 B.T.

Soil, sandy loam, first rate.

Land level, covered with scattering timber and dense undergrowth.

Land covered with dense under growth 80.00 chs. ✓

Subdivisions of Tp. 16 N., R. 21 W., continued.

Chains

Thence I run E. on a random between Secs. 26 and ~~35~~ 35:
 40.00 Set temporary 1/4 Sec. cor.
 79.90 Intersect cor. Secs. 25, 26, 35 and 36,
 Thence I run W. on a true line over level land covered
 with dense undergrowth of grease-wood sloping to W.
 Descend
 22.00 Enter Sacramento Wash, course S.W.
 35.00 Leave Sacramento Wash, *thence over south slope*
~~40.00~~ Set a lava stone 18x12x6 ins. ~~14~~ ins. in ground for 1/4
 39.95 Sec. cor. marked 1/4 on N. face and raised a mound
 of stones 2 ft. base, 1.5 ft. high N. of cor.
 No trees, pits impracticable.
 73.00 Leave hills, enter Mohave Valley,
 78.60 Cross wagon road, course N. and S.
 79.90 The cor. SEcs. 26, 27, 34 and 35.
 Soil sandt loam and gravelly, first and second rates,
 Land level, sloping to W. covered with dense growth of
 grease wood and mesquite in Mohave Valley.
 Lands covered with dense undergrowth 79.90 chs. ✓

 Thence I run West between Secs. 27 and 34 through Mes-
 quite timber and dense undergrowth
 13.10 To left bank Colorado River, bank 4 ft. high, set a
 Mesquite 4 ins. sq. 4 ft. long, 3 ft. in ground for
 meander cor. of frac. Secs. 34 and 27, marked M.C. on
 W., T. 16 N. R. 21 W. on E., S. 27 on N. and S. ~~54~~ on S.
 faces.
 Whence a Mesquite 5 ins. diam. bears N. 81° W. 200 lks.
 dist. marked T. 16 N. R. 21 W. S. 27 B. T.
 No other trees available.
 Dug pit 8 ft. E. 36x36x12 ins. and raised a mound of
 earth 4 ft. base, 2 ft. high E. of cor.
 Soil sandy loam, first rate
 Land subject to over flow, level, covered with
 scattering Mesquite timber and dense undergrowth.
 Lands covered with dense undergrowth 13.1 chs.

 Thence I run
 N. 0° 1' W. between Secs. 26 and 27
 7.00 Cross road, course N.W. and S.E.
 13.00 Leave valley and ascend
 24.50 Summit of Ridge, course N.W. and S.E.
 Descend
 30.70 Cross canon 75 lks. wide, course N.W. ascend
 40.00 Set a lava stone 18x12x12 ins. ~~14~~ ins. in ground for 1/4
 ✓ Sec. cor. marked 1/4 on W. face and raised a mound of
 stones 2 ft. base, 1.5 ft. high W. of cor.
 Descend
 41.00 Cross gulch 75 lks. wide, course N.W.
 Ascend
 45.00 Cross summit of ridge, course NW. and SE.
 Descend
 48.00 Cross gulch 50 lks. wide, course NW.
 Ascend
 52.00 Cross summit of ridge, course NW. and SE.
 Descend
 55.50 Cross gulch 50 lks. wide, course NW.
 Ascend
 61.00 Cross summit of ridge, course E. and W.
 66.00 Cross gulch 100 lks. wide, course W.
 Ascend
 80.00 Set a lava stone 18x10x6 ins. ~~14~~ ins. in ground for cor.
 ✓ Secs. 22, 23, 26 and 27, marked 2 grooves on S. and
 2 grooves on E. faces, raised a mound of stones 2
 ft. base, 1.5 ft. high W. of cor.

Chains

Whence a Palo Verde 8 ins.diam.bears N.49°30'E. 221 lks.dist. marked T.16 N.R.21 W.S.23 B.T.
 A Palo Verde 6 ins.diam.bears S.50°W. 90 lks.dist. marked T.16 N.R.21 W.S.27 B.T.
 No other trees available.
 Soil 13 chs. sandy loam, 67 chs. rocks, first and fourth rates.
 Land 13 chs. level covered with dense undergrowth, 67 ✓ chs. mountaineous.

April 20, 1905.

April 21, 1905. At 7h.a.m.1.m.t. I set off 34°41'N. ✓ on the lat.arc and 11°47'N. ✓ on the decl.arc and determine the true meridian at the true cor.of Secs. 22,23,26 and 27

Thence I run E. on a random between Secs. 23 and 26
 40.00 Set temporary 1/4 Sec.cor.
 79.80 Intersect Sec.line at 7 lks.S.of cor. Secs.23,24,25 and 26
 Thence I run S.89°57'W. over high level mesa sloping to the W.
 39.90 Set a lava stone 18x12x8 ins. ¹⁴ ins.in ground for 1/4 Sec.cor. marked 1/4 on N.face and raised a mound of stones 2 ft.base, 1.5 ft.high N. of cor.
 ✓ No trees, pits impracticable.
 79.80 The cor.Secs.22,23,26 and 27
 Soil gravelly and rocky, second and third rates.
 Land level sloping to W. and S.

Thence I run ^{West.} S.89°57'W. between Secs. 22 and 27
 Descend
 25.00 Cross canon 3 chs.wide, course SW.
 Ascend
 32.00 Cross ridge, course N. and S.
 Descend
 40.00 Enter Mohave Valley, set a lava stone 18x10x10 ins. ✓
 1/4 ins.in ground for 1/4 sec.cor. marked 1/4 on N. face
 Whence a Palo Verde 6 ins.diam.bears N.9°W. 165 lks. dist.marked 1/4 S.22 B.T.
 A Palo Verde 10 ins.diam.bears S.33°15'E. 298 lks. dist.marked 1/4 S.27 B.T.
 Through heavy Mesquite timber and dense undergrowth:
 44.00 Cross slough, course SW. 2 chs.wide, water 1 ft.deep.
 47.36 Cross road, course N. and S.
 80.00 Set a Mesquite ^{peat} 6 ins.sq. 3 ft.long 2 ft.in ground for ✓
 cor.Secs.21,22,27 and 28, marked T.16 N.S.22 on NE., R.21 W.S.27 on SE., S.28 on SW. and S.21 on NW., 3 notches on E. and 2 Notches on S. faces.
 Whence a Mesquite 5 ins.diam.bears S.62°30'E. 39 lks. dist. marked T.16 N.R.21 W.S.27 B.T.
 A Mesquite 8 ins.diam. baers S.63°W. 74 lks.dist. marked T.16 N.R.21 W.S.28 B.T.
 A Mesquite 4 ins.diam.bears N.46°30'W.151 lks.dist. marked T.16 N.R.21 W.S.21 B.T.
 A Mesquite 6 ins.diam.bears N.26°45'E.44 lks.dist. marked T.16 N.R.21 W.S.22 B.T.
 Soil in Mohave Valley sandy loam, first rate 40 chs. 40 chs. gravelly, third rate.
 Land level and mountaineous.
 Mountaineous land and lands covered with heavy timber and dense undergrowth 80.00 chs. ✓

Thence I run ^{West.} S.89°57'W. between Secs. 21 and 28 through dense undergrowth of arrow wood and scattering mesquite timber,

Subdivisions of Tp. 16 N., R. 21 W., continued.

Chains
7.70 ✓

To left bank of Colorado River, bank about 7 ft. high set a Mesquite post 4 ins. sq. 4 ft. long, 3 ft. in ground for meander cor. of Frac. Secs. 21 and 28 marked M.C. on W., T. 16 N. R. 21 W. on E., S. 21 on N. and S. 28 on S. faces. Dug pit 36x36x12 ins. 8 ft. E. of cor. and raised a mound of earth 4 ft. base, 2 ft. high E. of cor.
No trees available.
Land level, subject to overflow
Soil, sandy loam, first rate.
Lands covered with scattering Mesquite timber and dense undergrowth of arrow-wood 7.70 chs.

Thence I run S. 0° 2' E. between Secs. 27 and 28 through scattering Mesquite and Willow timber and dense undergrowth of arrow-wood

16.79 ✓

To left bank of Colorado River, bank about 7 ft. high, set a Mesquite post 6 ins. sq. 4 ft. long, 3 ft. in ground for meander cor. of Frac. Secs. 27 and 28 marked M.C. on S., T. 16 N. R. 21 W. on N. and S. 27 on E. and S. 28 on W. faces.
Whence a Mesquite 4 ins. diam. bears N. 89° E. 140 lks. dist. marked T. 16 N. R. 21 W. S. 27 M.C.B.T.
A Mesquite 4 ins. diam. bears N. 6° 30' W. 140 lks. dist. marked T. 16 N. R. 21 W. S. 28 M.C.B.T.
Soil sandy loam, first rate
Land level, subject to over flow, covered with scattering Mesquite and Willow timber and dense undergrowth of Arrow wood.
Lands covered with dense undergrowth, 16.79 chs.

April 21, 1905.

April 22, 1905. At 7 h. a. m. I set off 34° 41' N. on the lat. arc and 12° 7' N. on the decl. arc and determine a true meridian by the solar at the cor. Secs. 22, 23, 26 and 27,

Thence I run N. 0° 1' W. between Secs. 22 and 23 over rolling mountainous country sloping to S. and W.

20.00

Descend
Cross canon 50 lks. wide, course SW.

40.00 ✓

Ascend
Set a lava stone 24x12x10 ins. ¹⁸ 20 ins. in ground for 1/4 Sec. cor. marked 1/4 on W. face, raised a mound of stones 2 ft. base 1.5 ft. high W. of cor.

45.00

No trees, pits impracticable.
Cross summit of ridge, course SW. and NE.
Descend

69.00

Cross canon 75 lks. wide, course SW.
Ascend

75.00

Top of ridge, course NE. and SW.
Descend

80.00 ✓

Set a lava stone 16x12x12 ins. ¹² 12 ins. in ground for cor. Secs. 14, 15, 22 and 23, marked 3 grooves on S. and 2 grooves on E. faces, raised a mound of stones 2 ft. base 1.5 ft. high on W. of cor.
No trees, pits impracticable.
Soil gravelly, third rate,
Land rolling mountainous,
Mountainous lands 80.00 chs.

Chains	
	Thence I run N.89°57'E. on a random between Secs.14 and 23
40.00	Set temporary 1/4 Sec.cor.
79.95	Intersect Sec.line at 10 lks.N.of cor.Secs.13,14,23 and 24
	Thence I run N.89°59'W.on a true line between Secs.14 and 23 over a high mesa country sloping to S. and W.
39.975	Set a lava stone 20x10x6 ins 516 ins.in ground for 1/4 Sec.cor.marked 1/4 on N.face and raised a mound of stones 2 ft.base, 1.5 ft.high N.of cor.
79.95	No trees, pits impracticable. The cor.Secs.14,15,22 and 23 Soil gravelly, third rate. Land level, sloping to S. and W.

	Thence I run N.0°1'W.between Secs. 14 and 15
	Descend
1.00	Cross gulch 100 lks.wide, course SW. Ascend.
3.00	Cross ridge, course SW.and NE. Descend.
5.75	Cross gulch 50 lks.wide, course SW. Ascend
7.00	Top of level mesa, sloping to S. and W.
40.00	Set a lava stone 18x8x6 ins 14 ins.in ground for 1/4 Sec.cor. marked 1/4 on W. face, dug pits 18x18x12 ins.3 ft.dist. N. and S. of cor., raised mound of earth 5.5 ft.base 1.5 ft.high W. of cor.
80.00	No trees, Set a lava stone 18x12x6 ins. 14 ins.in ground for cor. Secs.10,11,14 and 15, marked 2 grooves on E. and 4 grooves on S. faces, dug pits 18x18x12 ins. 5.5 ft. dist. in 4 Secs. and raised a mound of earth 4 ft. base, 2 ft.high W. of cor. Soil sandy loam, first rate. Land level, mesa country, sloping to S. and W.

	Thence I run S.89°59'E. on a random between Secs. 11 and 14
40.00	Set temporary 1/4 Sec.cor.
79.80	Intersect Sec.line 3 lks. N. _S of cor.Secs.11,12,13 and 14
	Thence I run West on a true line between Secs.11 and 14 over broken mountaineous country sloping to S. and W.
39.90	Set a lava stone 18x8x6 ins 14 ins.in ground for 1/4 Sec.cor.marked 1/4 on N. and raised a mound of stones 2 ft.base, 1.5 ft.high N.of cor.
50.00	No trees, pits impracticable. Leave mountaineous country enter level mesa
79.80	Cor.Secs.10,11,14 and 15 Soil sandy and rocky, second and fourth rates, Land 27.80 chs.level, 50 chs.mountaineous. Mountaineous lands 50.00 chs.

April 22, 1905.	
<i>(1 at 8h 30m. Amlmt. I set off 12°28' N on the decl. arc. and 34°32 1/2' N on the lat. arc. and determine a true meridian with the solar at the cor. to secs. 10, 11, 14 & 15.)</i>	
	Thence I run, East on a random between Secs. 12 and 13
40.00	Set a temporary 1/4 Sec.cor.
79.74	Intersect Cor.Secs.7,12,13 and 18, on Range line
	Thence I run West on a true line between Secs. 12 and 13 over rolling broken mountaineous country
	Descend
31.24	Cross gulch 20 lks.wide, course SW.

Subdivisions of Tp. 16 N., R. 21 W., continued.

Chains.

39.87 Ascend
 Top of ridge, course NE. and SW. set a lava stone 20x12x10 ins. ¹⁵18 ins. in ground for 1/4 Sec. cor. marked 1/4 on N. face, raised a mound of stones 2 ft. base, 1.5 ft. high, N. of cor.
 No trees, pits impracticable.

46.24 Descend
 Cross canon 100 lks. wide, course SW.

51.00 Ascend
 Top of ridge, course NE. and SW.

55.74 Descend
 Cross canon, 75 lks. wide, course SW.

79.74 Ascend
 Cor. Secs. 11, 12, 13 and 14
 Soil rocky, fourth rate,
 Land rolling mountaineous, very rough
 Mountaineous lands 79.74 chs.

Thence I run *gradually ascending*
 N. 0° 1' W. between Secs. 11 and 12 over ~~level~~ mesa country sloping to S. and ~~W.~~ ^{W.}

40.00 Set a lava stone 18x10x8 ins. 14 ins. in ground for 1/4 Sec. cor. marked 1/4 on W. face, dug pits 18x18x12 ins. 3 ft. N. and S. of cor., raised a mound of earth 3.5 ft. base 1.5 ft. high W. of cor.
 No trees

65.00 Leave Mesa, enter rough mountaineous country

77.50 Descend
 Cross gulch 30 lks. wide, course E.

80.00 Ascend
 Set a lava stone 20x12x8 ins. ¹⁵16 ins. in ground for cor. Secs. 1, 2, 11 and 12, marked 5 grooves on S. and 1 groove on E. faces, raised a mound of stones 2 ft. base 1.5 ft. high W. of cor.
 No trees, pits impracticable.
 Soil sandy loam 65 chs. gravelly soil 15 chs. first and second rates.
 Land level 65 chs. rough mountaineous land 15 chs.
 Mountaineous lands 15.00 chs.

April 23, 1905.
 At 12 h.m. 1.m.t. I set off 12° 31' N. on the decl. arc, at cor. Secs. 1, 2, 11 and 12, observed the sun on the meridian; the resulting lat. being 54° 43' 30" ⁴⁷

Thence I run *meander*
 East on a meander between Secs. 1 and 12

40.00 Set temporary 1/4 Sec. cor.

79.94 Intersect Range line at S. 9 lks. from cor. Secs. 1, 6, 7 and 12

Thence I run *on a true line*
 S. 89° 56' W. over rolling mountaineous country sloping to S. and W.

16.70 Descend
 Cross canon, 50 lks. wide, course SW.

39.97 Ascend
 Summit of ridge, course NE. and SW. ¹⁵
 Set a lava stone 20x14x8 ins. 16 ins. in ground for 1/4 Sec. cor. marked 1/4 on N. face and raised a mound of stones 2 ft. base, 1.5 ft. high N. of cor.
 No trees, pits impracticable.

62.20 Descend
 Cross canon 20 lks. wide, course S.

65.00 Ascend
 Cross ridge, course NE. and SW.

68.20 Descend
 Cross canon 30 lks. wide, course SW.

Chains	
	Ascend
69.50	Cross ridge, course N. and S.
	Descend
71.00	Cross gulch 20 lks.wide, course SE.
	Ascend
79.94	The cor.Secs.1,2,11 and 12 Soil rocky, lava formation, fourth rate Land rough, rolling mountainous Mountaineous land 79.94 chs. ✓

	Thence I run N.0°1'W. over rolling mountaineous country between Secs. 1 and 2
40.00	Set a lava stone 24x12x5 ins. 18 ins.in ground for 1/4 Sec.cor. marked 1/4 on W. face and raised a mound of stones 2 ft.base, 1.5 ft.high W. of cor. No trees, pits impracticable.
80.18	Intersect 4" Standard Parallel at E.78 lks.from the standard 1/4 Sec.cor.on S.boundary of Sec.36, T.17 N.,R.21 W. Set a lava stone 18x12x6 ins. 14 ins.in ground for closing cor.Secs. 1 and 2 T.16 N. R.21 W. marked C.C.on S., 1 notch on E. and 5 notches on W.faces raised a mound of stones 2 ft. base, 1.5 ft.high S.of cor. No trees, pits impracticable. Soil rocky, fourth rate, Land rolling mountainous, Mountaineous lands 80.18 chs. ✓
April 23, 1905.	

	April 24, 1905. At 7h.a.m.1.m,t. at cor.Secs. 21,22,27 and 28 I set off 54°41'N.on the lat.arc and 12°47'N!on the decl. arc and determine a true meridian with the solar, Thence I run, N.0°2'W. between Secs.21 and 22 through heavy Mes- quite timber and dense undergrowth of Arrowwood
18.50	Cross slough, 3 ft.water, 50 lks.wide, course SE.
38.60	Cross slough, 18 ins.water, 60 lks.wide, course SE.
40.00	Set a Mesquite post 4 ins.sq. 3.5 ft.long, 2.5 ft.in ground, marked 1/4 S. ²¹ on W. face <i>and 22 on E face</i> Whence a Mesquite 10 ins.diam.bears S.53°45'W. 7 lks. dist. marked 1/4 S.21 B.T. A Mesquite 8 ins.diam.bears N.14°E.7 lks.dist.marked 1/4 S.22 B.T.
48.20	Cross road, course NW. and SE.
60.00	Leave timber and Mohave Valley, Ascend into mountains
66.00	Cross top of ridge, course NW. and SE. Descend
74.40	Cross gulch 100 lks.wide, course SW. Ascend
80.00	Set a lava stone 24x12x10 ins. 20 ins.in ground for cor.Secs.15,16,21 and 22 marked 3 grooves on S. and E. faces, T.16 N. on NE.face and R.21 W. on SE. face raised a mound of stones 2 ft.base 1.5 ft.high W.of cor. No trees, pits impracticable, Soil 60 chs.sandy loam, first rate, 20 chs.rocky, fourth rate. Land level 60 chs. covered with heavy Mesquite timber and dense undergrowth, 20 chs.rough mountainous land Mountaineous land, or land covered with heavy timber and dense undergrowth, 80.00 chs. ✓

Chains

Thence I run,
~~East N. 89° 57' E.~~ on a random line between Secs. 15 and 22
 40.00 Set temporary 1/4 Sec. cor.
 79.80 Intersect Sec. line at N. 23 lks. from the cor. Secs. 14, 15, 22 and 23
 Thence I run *on a true line bet. secs. 15 and 22*
 N. 89° 58' W. over rough mountainous country sloping to S. and W.
 Descend
 6.80 Cross wash 150 lks. wide, course SW.
 Ascend
 30.00 Cross summit of ridge, course NE. and SW.
 Descend
 39.90 Set a lava stone 20x10x8 ins. ¹⁵ ins. in ground for 1/4 Sec. cor. marked 1/4 on N. face and raised a mound of stone 2 ft. base 1.5 ft. high N. of cor.
 No trees, pits impracticable.
 47.30 Cross gulch 50 lks. wide, course SW.
 Ascend
 63.00 Top of ridge, course NE. and SW.
 Descend
 77.80 Cross gulch 50 lks. wide, course SW.
 Ascend
 79.80 The cor. Secs. 15, 16, 21 and 22.
 Soil rocky, third rate.
 Land rolling mountainous cut up by deep gulches
 Mountainous land 79.80 chs.

 Thence I run
~~West S. 89° 57' W.~~ between Secs. 16 and 21
 Descend
 22.00 Leave mountains, enter Mohave Valley
 25.35 Cross road, course NW. and SE.
 30.26 To E. side Powell Slough, course S., 1.5 ft. water
 34.43 To W. bank Powell Slough,
 38.88 To E. bank slough, 1 ft. water, course S.
 40.00 Point for 1/4 Sec. cor. falls in slough, not suitable to establish permanent cor.
 40.40 W. bank of slough
 40.52 Set a Willow post 6 ins. sq. 4 ft. long, 3 ft. in ground, for witness 1/4 sec. cor. marked 1/4 S.W.C. on N. face
 Whence a Willow 8 ins. diam. bears S. 0° 45' W. 46 lks. *and 21 on S face.*
 dist. marked 1/4 S. 21 W.C.B.T.
 A Willow 6 ins. diam. bears N. 50° 15' E. 9 lks. dist. marked 1/4 S. 16 W.C.B.T.
 41.25 Cross fence, course N. and S. enter cultivated land belonging to Indians, about 5 acres in extent.
 46.28 Leave cultivated land, cross fence course N. and S.
 80.00 Set a Mesquite 4 ins. sq. 4 ft. long, 3 ft. in ground for cor. Secs. 16, 17, 20 and 21, marked T. 16 N.S. 16 on NE. R. 21 W.S. 21 on SE., S. 20 on SW. and S. 17 on NW. faces, 4 notches on E., 3 notches on S. faces, dug pits 18x18x12 ins. 5.5 ft. dist from cor. in 4 secs. and raised a mound of earth 4 ft. base 2 ft. high W. of cor.
 No trees available.
 Soil 58 chs. sandy loam, first rate, 22 chs. rocky fourth rate.
 Land 58 chs. level covered with scattering Mesquite and Willow timber and dense undergrowth of Arrow-wood, 22 chs. of rough mountainous land.
 Mountainous land or land covered with dense undergrowth 80.00 chs.
 This valley land is all subject to overflow of 2 to 4 ft. of water from Colorado River.

Chains
 1.16 Thence I run *bet. secs. 17 and 20*
 S.89°57'W. through scattering Cottonwood, Willow and
 Mesquite timber and dense undergrowth of Arrow-wood
 between Secs. 17 and 20.
 40.00 Cross road, course N. and S.
 Set a Mesquite 4 ins.sq. 4 ft.long, 3 ft.in ground for
 1/4 Sec.cor. marked 1/4 S²⁰ on N.face and 20 on S.face
 Whence a Mesquite 4 ins.diam.bears S.4°W. 61 lks.dist.
 marked 1/4 S.20 B.T.
 A Willow 8 ins.diam.bears N.6°30'E. 16 lks.dist.marked
 1/4 S.17 B.T.
 61.11 To left bank of Colorado River, edge of sand-bar ex-
 tending into river-bed, there being no perceptible
 bank to river at this point; set a cottonwood post
 5 ins.sq. 4 ft.long, 3 ft.in ground for meander
 cor.of frac.Secs.17 and 20, marked M.C.on W., T.16
 N.R.21 W.on E., S.17 on N. and S.20 on S.faces,
 Whence, a Cottonwood 6 ins.diam.bears S.22°15'E. 32
 lks.dist. marked T.16 N.R.21 W.S.20 M.C.B.T.
 A Willow 10 ins.diam.bears N.21°30'E. 14 lks.dist.
 marked T.16 N.R.21 W.S.17 M.C.B.T.
 This land is all subject to overflow of 2 to 4 feet of
 water from Colorado River.
 Soil sandy loam, first rate,
 Land level, covered with scattering Cottonwood, Willow
 and Mesquite timber and dense undergrowth of Arrow-
 wood
 Land covered with dense undergrowth 61.11 chs.

April 24, 1905.

April 25, 1905. *at 8^h 30m AM. lmt. I set off 12° 7 1/2' N on the decl. an
 34° 44' N on lat. arc and determine a true meridian
 at the cor. of secs. 16, 17, 20 & 21 - with the solar.*

4.85 Thence I run S.0°2'E. between Secs. 20 and 21
 through scattering Mesquite, Cottonwood and Willow
 timber and dense undergrowth of Arrow-wood
 40.00 Cross road, course NW. and SE.
 Set a Willow post 6 ins.sq. 4 ft.long, 3 ft.in ground
 for 1/4 Sec.cor. marked 1/4 S²⁰ on W.face and 21 on E.face
 Whence a Mesquite 4 ins.diam.bears S.18°45'E. 55 lks.
 dist.marked 1/4 S.21 B.T.
 A Mesquite 4 ins.diam.bears S.60°W. 60 lks.dist.marked
 1/4 S.20 B.T.
 63.20 To left bank of Colorado River, bank about 4 ft.high,
 set a Willow post 6 ins.sq.4 ft.long, 3 ft.in
 ground for meander cor.of frac.Secs.20 and 21
 marked M.C.on S., T.16 N.R.21 W. on N., S.21 on E.
 and S.20 on W.faces
 Whence a Willow 8 ins.diam.bears N.58°45'W. 90 lks.
 dist. marked T.16N.R.21 W. S.20 M.C.B.T.
 A Willow 5 ins.diam.bears N.40°15'E. 54 lks.dist.
 marked T.16 N.R.21 W.S.21 M.C.B.T.
 Soil sandy loam, first rate.
 Land level, covered with scattering Mesquite, Cotton-
 wood and Willow timber and dense undergrowth of
 Arrow-wood,
 Land covered with dense undergrowth 63.20 chs.

Thence I run
 N.0°2'W. between Secs. 15 and 16 over rolling moun-
 tainous land
 Descend
 12.50 Cross gulch 100 lks.wide, course SW.
 Ascend
 22.00 Cross top of ridge, course NE. and SW.
 Descend
 31.00 Cross gulch 40 lks.wide, course W.
 Ascend
 33.00 Top of ridge, course E. and W.
 Descend

Subdivisions of Tp. 16 N., R. 21 W., continued.

Chains

- 34.00 Cross gulch 50 lks.wide, course SW.
Ascend
- 40.00 Set a lava stone 20x10x8 ins. ¹⁵16 ins.in ground for 1/4
sec.cor. marked 1/4 on W.face and raised a mound of
stones 2 ft.base, 1.5 ft.high W.of cor.
No trees, pits impracticable.
- 44.95 Cross road, course SW. and NE.
- 55.00 Summit of ridge, course E. and W.
Descend
- 65.75 Cross gulch, 30 lks.wide, course W.
Ascend
- 67.00 Cross ridge, course E. and W.
Descend
- 69.00 Cross gulch 100 lks.wide, course SW.
Ascend
- 74.00 Cross ridge, course NE. and SW.
Descend
- 79.00 Cross gulch, 20 lks.wide, course SW.
Ascend
- 80.00 Set a lava stone 24x18x12 ins. ¹⁸20 ins.in ground for
cor.Secs.9,10,15 and 16, marked 4 grooves on S. and
3 grooves on E. faces, raised a mound of stones 2
ft.base 1.5 ft.high W.of cor.
No trees, pits impracticable.
Soil rocky, fourth rate.
Land rolling mountaineous, cut up by deep gulches.
Mountaineous land 80.00 chs.

Thence I run

- 40.00 S.89°⁵⁵55'E.on a random line between Secs.10 and 15
set a temporary 1/4 Sec.cor.

- 79.71 Intersect Sec.line at S.5 lks.from cor.Secs.10,11,14
and 15,

Thence I run

- N.89°⁵⁵55'W. on a true line between Secs.10 and 15
Descend over rolling ~~mountaineous~~ country

- 39.855 Set a lava stone 16x10x8 ins. ¹²18 ins.in ground for 1/4
Sec.cor.marked 1/4 on N.face and ~~dig~~ pits 18x18x12
ins. 3 ft.dist. E. and W. of cor., raised a mound
of earth 3.5 ft.base 1.5 ft.high N. of cor.

No trees available.

- 44.21 Cross gulch 75 lks.wide, course SW.
Ascend

- 71.76 Cross road, course N. and S.

- 75.00 Top of ridge, course NW. and SE.

Descend

- 79.71 The cor.Secs.9,10,15 and 16
Soil sandy loam and gravelly, first and second rates.
Land level and mountaineous.
Mountaineous land 40.00 chs.

April 25, 1905.

April 26, 1905.

At 7h.a.m.1.m.t. I set off 34° 45'N. on the lat.
arc and 13°26'N. on the decl.arc and determine a
true meridian by the solar at the cor.of Secs. 10,
11,14 and 15,

Thence I run

N.0°1'W. between Secs.10 and 11 over level mesa
country,

- 40.99 Set a lava stone 18x10x5 ins. ¹²14 ins.in ground for 1/4
Sec.cor marked 1/4 on W. face and raised a mound of
stones 2 ft.base 1.5 ft.high W. of cor.

No trees, pits impracticable.

- ~~45.00 Leave level mesa, enter hills.~~

- 80.00 Set a lava stone 16x8x7 ins. 12 ins.in ground for cor.
Secs.2,3,10 and 11, stone marked 2 grooves on E.

Chains

and 5 grooves on S. faces, raised a mound of stones 2 ft. base, 1.5 ft. high W. of cor. Soil sandy loam and gravelly, first and second rates. Land 45 chs. level mesa, sloping to S. and W., 35 chs. broken hilly country. //

Thence I run

East on a random line between Secs. 2 and 11

40.00

Set temporary 1/4 Sec. cor.

79.80

Intersect Sec. line at 3 lks. S. of cor. Secs. 1, 2, 11 and 12

Thence I run

S. 89° 59' W. on a true line between Secs. 2 and 11

Descend

4.25

Cross gulch, 50 lks. wide, course SE.

Ascend

39.90

Set a lava stone 16x8x8 ins. ~~12~~¹¹ ins. in ground, for 1/4 Sec. cor. marked 1/4 on N. face, dig pits 18x18x12 ins. 3 ft. dist. E. and W. of cor., raised mound of earth 3.5 ft. base, 1.5 ft. high, N. of cor.

No trees available.

Descend

42.00

West edge of hills, enter mesa land,

79.80

Cor. Secs. 2, 3, 10, 11

Soil gravelly and sandy, second and third rates.

Land 37.80 chs. level land, 42.00 chs. hilly broken country.

Thence I run

N. 0° 1' W. between Secs. ~~2~~ and 3 over mesa country sloping to S. and W. ¹⁵

40.00

Set a lava stone 20x12x8 ins. ~~16~~¹⁵ ins. in ground for 1/4 Sec. cor. marked 1/4 on W. face, raised a mound of stones 2 ft. base 1.5 ft. high W. of cor.

No trees, pits impracticable.

Descend

46.50

Cross canon, 50 lks. wide, course SW.

Ascend

80.18

Intersect Fourth Standard Parallel at E. 105 lks. from standard 1/4 Sec. cor. on S. boundary of Sec. 35 T. 17 N. R. 21 W., set a lava stone 16x10x10 ins. 12 ins. in ground for closing cor., stone marked C.C. on S. face 2 grooves on E. and 4 grooves on W. faces, raised a mound of stones 2 ft. base, 1.5 ft. high S. of cor.

Soil rocky and gravelly, third rate

Land 40 chs. level, 40.18 mountainous.

Mountainous lands 40.18 chs.

April 26, 1905.

April 27, 1905.

At 7h. a.m. 1.m.t. I set off 34° 43' N. on the lat. arc and 13° 46' N. on the decl. arc and determine a true meridian with the solar at the cor. Secs. 9, 10, 15, 16

Thence I run

N. 0° 2' W. between Secs. 9 and 10 over rough, broken hilly country

Descend

6.00

Cross gulch 40 lks. wide, course SW.

Ascend

15.00

Cross ridge, course SW. and NE.

Descend

24.50

Cross gulch, 30 lks. wide, course SW.

Ascend

29.00

Cross top of ridge, course NE. and SW.

Descend

34.00

Cross gulch 50 lks. wide course SW.

Chains

40.00 Ascend
 Top of ridge, course NE. and SW. set a lava stone
 16x14x12 ins // ~~12~~ ins. in ground for 1/4 Sec. cor.
 marked 1/4 on W. face and raised a mound of stones
 2 ft. base 1.5 ft. high W. of cor.
 No trees, pits impracticable.
 Descend
 41.00 Cross gulch 50 lks. wide, course SW.
 51.45 Cross road, course SE. and NW. also gulch 50 lks. wide,
 course SW.
 Ascend
 60.00 Cross top of ridge, course NE. and SW.
 Descend
 72.00 Cross canon 100 lks. wide, course SW.
 Ascend ~~over mesa~~
 80.00 Set a lava stone 18x10x8 ins. ~~12~~ ins. in ground for cor.
 Secs. 3, 4, 9, 10, stone marked 5 grooves on S. and 3
 grooves on E. faces, raised mound of stones 2 ft.
 base, 1.5 ft. high W. of cor.
 No trees, pits impracticable.
 Soil rocky, fourth rate.
 Land rolling, mountaineous.
 Mountaineous land 80.00 chs.

Thence I run
 S. 89° 55' E. on a random line between Secs. 3 and 10
 40.00 Set temporary 1/4 Sec. cor.
 79.70 Intersect Sec. line at N. 4 lks. of cor. Secs. 2, 3, 10, 11
 Thence I run
 N. 89° 55' W. on a true line between Secs. 3 and 10
 Descend over level mesa country, ~~12~~
 39.85 Set a lava stone 18x10x6 ins. ~~14~~ ins. in ground for 1/4
 Sec. cor. marked 1/4 on N. face and raised a mound of
 stones 2 ft. base 1.5 ft. high N. of cor.
 No trees, pits impracticable.
 70.54 East edge of canon, descend,
 72.50 Cross dry bed of canon, 50 lks. wide, course SW.
 Ascend
 74.00 West side of canon,
 79.70 Cor. Secs. 3, 4, 9, 10
 Soil rocky, fourth rate,
 Land level and mountaineous,
 Mountaineous land 29.00 chs. ✓

Thence I run
 N. 0° 2' W. between Secs. 3 and 4 over rolling ~~mountaineous~~
 taineous country, ~~12~~
 40.00 Set a lava stone 18x10x10 ins. ~~24~~ ins. in ground for 1/4
 Sec. cor. marked 1/4 on W. face, raised a mound of
 stones 2 ft. base, 1.5 ft. high W. of cor.
 No trees, pits impracticable.
 80.23 Intersect Fourth Standard Parallel at E. 168 lks. from
 standard 1/4 Sec. cor. on S. boundary Sec. 34 T. 17 N.
 R. 21 W., set a lava stone 24x12x8 ins. 20 ins. in
 ground for closing cor. marked C.C. on S. face, 3
 grooves on E. and 3 grooves on W. faces, raised a
 mound of stones 2 ft. base, 1.5 ft. high S. of cor.
 Soil rocky, fourth rate,
 Land rolling, mountaineous,
 Mountaineous land ~~80.00~~ chs. _{80.23}

April 27, 1905.

Chains

April 28, 1905.

At 7h.a.m.l.m.t. I set off $34^{\circ}42'N.$ on the lat.arc and $14^{\circ}5'N.$ on the decl.arc and determined a true meridian with the solar at the cor.Secs.16,17,20,21

Thence I run

$N.0^{\circ}2'W.$ between Secs.16 and 17 through heavy Mesquite timber and dense undergrowth

40.00

Set a Mesquite post 4 ins.sq. 3 ft.long, 2 ft.in ground for $1/4$ Sec.cor.marked $1/4 S$ on W.face, *and 16 on E face*

Whence a Mesquite 6 ins.diam.bears $N.76^{\circ}15'W.$ 20 lks. dist.marked $1/4 S.17$ B.T.

A Mesquite 4 ins.diam.bears $N.78^{\circ}45'E.$ 23 lks.dist. marked $1/4 S.16$ B.T.

62.55

Cross road, course NW. and SE.

80.00

Set a Mesquite post 4 ins.sq. 4 ft.long, 3 ft.in ground, for cor.Secs.8,9,16,17, post marked T.16 N. S.9 on NE., R.21 W.S.16 on SE. and S.17 on SW. and S.8 on NW.faces, with 4 grooves on E. and 4 grooves on S.faces,

Whence a Mesquite 6 ins.diam.bears $N.53^{\circ}15'E.$ 26 lks. dist.marked T.16 N.R.21 W.S.9 B.T.

A Mesquite 8 ins.diam.bears $S.69^{\circ}15'E.$ 62 lks.dist. marked T.16 N.R.21 W.S.16 B.T.

A Mesquite 8 ins.diam.bears $S.32^{\circ}W.$ 40 lks.dist. marked T.16 N.R.21 W.S.17 B.T.

A Mesquite 10 ins.diam.bears $N.75^{\circ}30'W.$ 54 lks.dist. marked T.16 N.R.21 W.S.8 B.T.

Soil sandy loam, first rate.

Land level, subject to overflow, covered with heavy Mesquite timber and dense undergrowth, 80.00 chs.

Thence I run

East. $N.89^{\circ}57'E.$ on a random line between Secs.9 and 16

40.00 Set temporary $1/4$ Sec.cor.

79.72 Intersect Sec.line at N.20 lks.from cor.Secs.9,10,15,16

Thence I run

$N.89^{\circ}54'W.$ on a true line between Secs.9 and 16 *ascending*

3.00 Cross gulch, 20 lks.wide, course NW.S.W.

6.32 To edge of mesa,

8.00 Descend into Mohave Valley,

8.00 East side of Powell Slough,

13.00 West side Powell Slough, water 1.5 ft.deep, enter dense Mesquite timber.

39.86 Set a Mesquite post 5 ins.sq.3 ft.long, 2 ft.in ground for $1/4$ Sec.cor.marked $1/4 S$ on N.face, *and 16 on S face*

Whence a Mesquite 8 ins.diam.bears $S.3^{\circ}E.$ 113 lks.dist. marked $1/4 S.16$ B.T.

A Mesquite 6 ins.diam.bears $N.28^{\circ}15'W.$ 89 lks.dist. marked $1/4 S.9$ B.T.

45.79 Cross road, course N.and S.

54.19 E.bank of slough,

57.00 W.bank of slough, water 1 ft.deep.

79.72 Cor.Secs.8,9,16,17

Soil sandy loam, first rate.

Land level, subject to overflow, covered with heavy Mesquite timber and dense undergrowth, *79.72* chs.

Thence I run

West $S.89^{\circ}57'W.$ between Secs.8 and 17 through ~~heavy mesquite timber~~ and dense undergrowth of Arrow-wood

7.21 Cross road, course NW. and SE.

40.00 Set a Mesquite post 5 ins.sq. 4 ft.long, 3 ft.in *and 17 on S face* ground for $1/4$ Sec.cor.marked $1/4 S$ on N.face, dig pits $18 \times 18 \times 12$ ins. 3 ft.dist.E.and W.from cor., raised mound of earth 3.5 ft.base, 1.5 ft.high N. of cor.

No trees available.

Chains	
80.00	Set a Willow post 5 ins.sq. 4 ft.long, 3 ft.in ground for cor.Secs.7,8,17,18, marked T.16 N.S.8 on NE. R.21 W.S.17 on SE., S.18 on SW. and S.7 on NW.faces, dig pits in 4 Secs. 18x18x12 ins. 5.5 ft.dist.from cor. and raised a mound of earth 4 ft.base, 2 ft. high W.of cor. No trees available. Soil sandy loam, first rate, Land level, subject to overflow, covered with scattering Mesquite and Willow timber and dense undergrowth of Arrow-wood, 80.00 chs.
	April 28, 1905.

	April 29, 1905. At 7h.a.m.1.m.t. I set off $34^{\circ}43'$ N.on the lat. arc and $14^{\circ}24'$ N.on the decl.arc and determine a true meridian with the solar at the cor.Secs.8,9,16,17. Thence I run N. $0^{\circ}2'$ W. between Secs.8 and 9 through heavy Mesquite timber and dense undergrowth of Arrow-wood
40.00	Set a Mesquite post 5 ins.sq. 4 ft.long 3 ft.in ground for 1/4 Sec.cor. marked 1/4 S on W.face, and 9 on E face Whence a Mesquite 6 ins.diam.bears N. $23^{\circ}30'$ E. 31 lks. dist.marked 1/4 S.9 B.T.
	A Mesquite 5 ins.diam.bears S. 47° W. 60 lks.dist.marked 1/4 S.8 B.T.
43.41	Small slough, 1 ft.water,
46.78	N.side of slough, course SE., about 12 chs.long
80.00	Set a Mesquite post 6 ins.sq. 4 ft.long, 3 ft.in ground for cor.Secs.4,5,8,9, marked T.16 N.S.4 on NE., R. 21 W.S.9 on SE. and S.8 on SW. and S.5 on NW.faces 4 notches on E. and 5 notches on S. edges. Whence a Mesquite 4 ins.diam.bears S. 28° E. 25 lks.dist. marked T.16 N.R.21 W.S.9 B.T. A Mesquite 5 ins.diam.bears S. $40^{\circ}30'$ W.46 lks.dist. marked T.16 N.R.21 W.S.8 B.T. A Mesquite 5 ins.diam.bears N. $43^{\circ}15'$ W.49 lks.dist. marked T.16 N.R.21 W.S.5 B.T. A Mesquite 5 ins.diam.bears N. $15^{\circ}15'$ E.36 lks.dist. marked T.16 N.R.21 W.S.4 B.T. Soil sandy loam, first rate, Land level, subject to overflow, covered with heavy mesquite timber and dense undergrowth of Arrow-wood, 80.00 chs.

	Thence I run S. $89^{\circ}54'$ E. on a random line between Secs. 4 and 9 through heavy Mesquite timber and dense undergrowth of Arrow-wood
40.00	Set temporary 1/4 Sec.cor.
79.80	Intersect Sec.line at N.9 lks.of cor.Secs.3,4,9,10 Thence I run N. $89^{\circ}50'$ W. on a true line between Secs.4 and 9 over rough-broken country
21.00	Edge of mesa
	Descend abruptly into Mohave Valley, enter timber
22.25	Cross road, course N. and S.
31.90	East bank Powell Slough, water 2 ft.deep, course SE.
35.90	West bank Powell Slough,
39.90	Set a Mesquite post 4 ins.sq. 3.5 ft.long 2.5 ft.in ground for 1/4 Sec.cor. marked 1/4 S on N.face, and 9 on S face Whence a Mesquite 4 ins.diam.bears N. $16^{\circ}45'$ E. 20 lks. dist, marked 1/4 S.4 B.T. A Mesquite 5 ins.diam.bears S. $48^{\circ}15'$ W. 39 lks.dist. marked 1/4 S.9 B.T.
55.00	East bank of small slough, 4 to 6 ins.water, course S.
63.00	West bank of slough,

Chains

79.80

Cor.Secs. 4,5,8,9

Soil sandy loam, first rate, 58.80 chs., gravelly land 21 chs., third rate.

Land level and hilly, level land subject to overflow.

Land covered with heavy Mesquite timber and dense undergrowth, 58.80 chs., mountaineous land 21.00 chs.

Mountaineous land, and land covered with heavy timber and dense undergrowth 79.80 chs. ✓

April 29. At 12 h.m.l.m.t. I set off $14^{\circ}26'N$ on the decl. arc and observe the sun on the meridian at the cor.Secs.4,5,8,9, the resulting lat. is $34^{\circ}43'N$

Thence I run

$N.0^{\circ}2'W$. between Secs. 4 and 5 through heavy Mesquite timber and dense undergrowth

6.50 Cross slough, water 2 ft. deep, 50 lks. wide, course SE.

30.34 S. bank Powell Slough, mud flat at this point covered with dense growth of willow brush

40.00 The point for $1/4$ Sec. cor. falls in slough, unsuitable ground for establishing permanent cor.

44.50 Leave Powell Slough,

45.00 Set a Mesquite post 4 ins. sq. 4 ft. long, 3 ft. in ground, for witness $1/4$ Sec. cor. marked $1/4$ S.W.C. on W. faceWhence a Mesquite 6 ins. diam. bears $S.18^{\circ}30'E$. 14 lks. dist. marked $1/4$ S.4 W.C.B.T.A Mesquite 6 ins. diam. bears $N.59^{\circ}W$. 53 lks. dist. marked $1/4$ S.5 W.C.B.T.80.05 Intersect Fourth Standard Parallel ^{NORTH} line at E. 188 lks.from standard $1/4$ Sec. cor. on S. boundary of Sec. 33

T.17 N., R.21 W., set a Mesquite post 4 ins. sq. 4 ft. long 3 ft. in ground, marked C.C.T.16 N.R.21 W.

on S. face, S.4 on E. and S.5 on W. faces with 4 grooves on E. and 2 grooves on W. faces,

Whence a Mesquite 6 ins. diam. bears $S.25^{\circ}15'W$. 34 lks. dist. marked T.16 N.R.21 W.S.5 C.C.B.T.A Mesquite 6 ins. diam. bears $S.21^{\circ}30'E$. 34 lks. dist. marked T.16 N.R.21 W.S.4 C.C.B.T.

Soil sandy loam, first rate

Land level, subject to overflow, covered with heavy Mesquite timber and dense undergrowth of willow brush, 80.05 chs. ✓

April 29, 1905.

April 30, 1905.

At 6h.30m.a.m.l.m.t. I set off $34^{\circ}43'N$ on the lat. arc and $14^{\circ}42'N$ on the decl. arc and determine a true meridian at the cor.Secs.7,8,17,18,

Thence I run

$S.0^{\circ}3'E$. between Secs.17 and 18, through dense undergrowth of Arrow-wood

1.78 To left bank Colorado River, no perceptible bank at this point, set a pine post 4 ins. sq. 4 ft. long, 3 ft. in ground, marked M.C. on S., T.16 N.R.21 W. on N., S.17 on E. and S.18 on W. faces, dig pit 36x36x12 ins. 8 ft. N. of cor., raised mound of earth 4 ft. base 2 ft. high N. of cor.

No trees available.

Soil sandy loam, first rate,

Land level, subject to overflow, covered with dense undergrowth of Arrow-wood, 1.78 chs.

Thence I run from cor. to secs. 7, 8, 17 & 18.

West $S.89^{\circ}57'W$. between Secs.7 and 18, from Cor.secs. 7,8,17,18, through dense undergrowth of Arrow-wood

2.19 Intersect left bank of Colorado River, there being no perceptible bank at this point, the river bed being

and 4 on
E. face

Chains

an extensive sand bar, set a pine post 4 ins.sq. 4 ft.long 3 ft.in ground for meander cor.of frac. Secs.7 and 18, marked M.C.on W., T.16 N.R.21 W.on E., S.7 on N. and S.18 on S. faces, dig pit 36x36x12 ins. 8 ft.dist from cor. and raised mound of earth 4 ft.base 2 ft.high E. of cor.
No trees available.
Soil sandy loam, first rate,
Land level, subject to overflow, covered with dense undergrowth of Arrow-wood, 2.19 chs.

Thence I run
N.0°3'W. between Secs.7 and 8, through heavy Mesquite timber and dense undergrowth of Arrow-wood,
39.90 Cross road, course NW. and SE.
40.00 Set a Mesquite post 4 ins.sq. 4 ft.long 3 ft.in ground for 1/4 Sec.cor.marked 1/4 S.7 on W.face, and 8 on E face
Whence a Mesquite 10 ins.diam.bears S.29°30'E. 62 lks. dist.marked 1/4 S.8 B.T.
A Mesquite 12 ins.diam.bears S.53°W. 47 lks.dist. marked 1/4 S.7 B.T.
80.00 Set a Mesquite post 4 ins.sq. 4 ft.long 3 ft.in ground for cor.Secs.5,6,7,8, marked T.16 N.S.5 on NE., R.21 W.S.8 on SE., S.7 on SW. and S.6 on NW.faces, dig pits in 4 Secs. 18x18x12 ins. 5.5 ft.dist.from cor. raised a mound of earth 4 ft.base 2 ft.high W. of cor.
No trees available.
Soil sandy loam, first rate,
Land level, subject to overflow, covered with Mesquite timber and dense undergrowth of Arrow-wood, 80.00 chs

Thence I run
East N.89°57'E. on a random line between Secs.5 and 8 through heavy Mesquite timber and dense undergrowth of Arrow-wood,
40.00 Set temporary 1/4 Sec.cor.
80.10 Intersect Sec.line at N.4 lks.of cor.Secs.4,5,8,9,
Thence I run
S.89°59'W. on a true line between Secs. 5 and 8
2.44 Cross road, course N.and S.
40.05 Set a Mesquite post 6 ins.sq. 4 ft.long, 3 ft.in ground for 1/4 Sec.cor. marked 1/4 S.5 on N.face, and 8 on S face
Whence a Mesquite 10 ins.diam.bears S.39°30'W. 76 lks. dist. marked 1/4 S.8 B.T.
A Mesquite 5 ins.diam.bears N.24°15'W. 84 lks.dist. marked 1/4 S.5 B.T.
50.92 Cross road, course N. and S.
80.10 The cor.Secs.5,6,7,8,
Soil sandy loam, first rate,
Land level, subject to overflow, covered with heavy Mesquite timber and dense undergrowth of Arrow-wood, 80.10 chs.

April 30, 1905.

May 2, 1905.
At 6h.30m.a.m.1.m.t. I set off 34°44'N on the lat. arc and 15°19'W on the decl.arc and determine a true meridian at cor.Secs.5,6,7,8,
Thence I run
West S.89°59'W. on a random line between Secs.6 and 7 through heavy Mesquite timber and dense undergrowth of Arrow-wood,
40.00 Set temporary 1/4 Sec.cor.
79.15 Intersect Range line between Tps.16 N. Rs.21 and 22 W. at 3 lks.S.of cor.Secs.1,6,7,12,

Chains

Thence I run
 88°39'E East on a true line between Secs. 6 and 7
 20.15 Cross fence, course N. and S.
 39.15 Set a Mesquite post 4 ins.sq. 3 ft.long, 2 ft.in ground
 for 1/4 Sec.cor., marked 1/4 S on N.face, and 7 on S face
 Whence a Cottonwood 15 ins.diam.bears N.74°E. 135 lks.
 dist. marked 1/4 S.6 B.T.
 A Mesquite 4 ins.diam.bears S.70°15'E.133 lks.dist.
 marked 1/4 S.7 B.T.
 39.96 Cross fence, course N. and S.
 41.37 A point whence Indian Shack bears N.25°E. 4 chs.dist.
 42.15 Cross fence, course N. and S., enter cultivated field
 by Indians,
 45.00 Cross fence, course N. and S.
 47.00 Cross fence, course N. and S., leave cultivated land
 50.20 Cross road, course NW. and SE.
 79.15 The cor.Secs. 5,6,7,8,
 Soil sandy loam, first rate,
 Land level, subject to overflow, covered with Mesquite,
 Cottonwood and Willow timber and dense undergrowth
 of Arrow-wood, 79.15 chs.

 Thence I run,
 N.0°3'W. between Secs. 5 and 6 through heavy Mesquite
 timber and dense undergrowth of Arrow-wood
 26.00 Cross slough, 50 lks.wide, course E., 1 ft.water.
 40.00 Set Mesquite post 4 ins.sq. 4 ft.long, 3 ft.in ground
 for 1/4 Sec.cor. marked 1/4 S on W. face. and 5 on E face
 Whence a Mesquite 4 ins.diam.bears N.34°30'E. 24 lks.
 dist. marked 1/4 S.5 B.T.
 A Mesquite 10 ins.diam.bears N.46°W. 18 lks.dist.
 marked 1/4 S.6 B.T.
 79.88 Intersect Fourth Standard Parallel N. at E. 178 lks.
 from standard 1/4 Sec.cor.on S.boundary Sec.32,
 T.17 N.R.21 W., set a Mesquite post 4 ins.sq. 4 ft.
 long 3 ft.in ground for closing cor. of Secs. 5 and
 6, T.16 N.R.21 W., marked C.C.T.16 N.R.21 W.on S.,
 S.5 on E., S.6 on W., with 5 notches on E. and 1
 notch on W. faces.
 Whence a Mesquite 4 ins.diam.bears S.24°W. 16 lks.dist.
 marked T.16 N.R.21 W.S.6 C.C.B.T.
 A Mesquite 4 ins.diam.bears S.37°45'E. 94 lks.dist.
 marked T.16 N.R.21 W.S.5 C.C.B.T.
 Soil sandy loam, first rate,
 Land level, subject to overflow, covered with heavy
 Mesquite timber and dense undergrowth of Arrow-
 wood 79.88 chs.
 May 2, 1905.

Meanders of left bank of Colorado River, up stream

May 3, 1905.

I commence at meander cor. of frac. Secs. 2 and 35 on S. boundary of T. 16 N. R. 21 W. set by me on April 16, 1905. At 6h.30m.a.m. I set off $34^{\circ}39'N.$ on the lat. arc and $15^{\circ}37'N.$ on the decl. arc and determined the true meridian by the solar,

Thence I run, with meanders in Sec. 35,
 $N.9^{\circ}30'W.$ 8.35 chs. To meander cor. on line between Secs. 34 and 35, through dense undergrowth of willow brush and scattering timber of Willow, Cottonwood and Mesquite.
 Bank about 4 ft. high.

Land river bottom,
 Soil sandy loam, first rate.
 Timber Cottonwood, Willow and Mesquite.
 Land covered with scattering timber and dense undergrowth, 8.35 chs.

Thence in Sec. 34, through scattering timber and dense undergrowth,

$N.28^{\circ}45'W.$ 2.70 chs.
 $N.12^{\circ}W.$ 9.50 "
 $N.23^{\circ}W.$ 3.00 "
 $N.21^{\circ}W.$ 8.20 "
 $N.15^{\circ}45'W.$ 7.70 "
 $N.12^{\circ}45'W.$ 8.50 "
 $N.10^{\circ}W.$ 8.50 " Enter Sacramento Wash.
 $N.23^{\circ}W.$ 4.00 " Leave Sacramento Wash.
 $N.5^{\circ}15'E.$ 3.90 "
 $N.27^{\circ}E.$ 3.50 "
 $N.3^{\circ}15'E.$ 4.60 "
 $N.11^{\circ}15'W.$ 4.40 "
 $N.6^{\circ}45'W.$ 5.00 "
 $N.14^{\circ}30'E.$ 1.26 " To meander cor. frac. Secs. 27 and 34.

Land level river bottom,
 Soil sandy loam, first rate,
 Timber scattering mesquite, willow.
 Land covered with scattering timber and dense undergrowth 74.76 chs.

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

$N.24^{\circ}W.$ 2.70 Chs.
 $N.25^{\circ}30'E.$ 3.20 "
 $N.26^{\circ}E.$ 5.40 " River bank about 4 ft. high.
 $N.19^{\circ}30'W.$ 8.00 "
 $N.39^{\circ}W.$ 7.50 "
 $N.60^{\circ}W.$ 7.10 "
 $N.74^{\circ}15'W.$ 6.60 "
 $N.71^{\circ}15'W.$ 6.30 "
 $N.84^{\circ}15'W.$ 5.00 "
 $N.75^{\circ}15'W.$ 3.70 "
 $N.67^{\circ}30'W.$ 3.40 "
 $N.62^{\circ}W.$ 5.40 "
 $N.68^{\circ}15'W.$ 4.70 "
 ~~$N.62^{\circ}15'W.$ 31.28 "~~
 $N.6^{\circ}30'W.$ 8.00 "
 $N.14^{\circ}30'W.$ 5.70 "
 $N.24^{\circ}W.$ 3.89 " To meander cor. between frac. Secs. 27 and 28.

Land level river bottom,
 Soil sandy loam, first rate,
 Timber scattering Willow and Mesquite.
 Land covered with scattering timber and dense undergrowth ~~107.90~~ chs. 107.19

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Meanders of left bank of Colorado River, up stream.

Thence in Sec. 28, through dense undergrowth.
 N.29°30'W. 5.30 Chs.
 N.21°15'W. 3.70 "
 N.23°30'W. 9.54 " To meander cor. on line between
 Secs. 27 and 28.

Soil sandy loam, first rate.
 Land level, subject to overflow, river bank about 3 ft.
 high, current of river is against this bank and constant-
 ly cutting it away.
 Land covered with scattering Mesquite and Willow timber
 and dense undergrowth of Arrow-wood, 18.54 chs. ✓

Thence in Sec. 21, through scattering timber of Mes-
 quite, Cottonwood and Willow, and dense undergrowth.

N.54°15'W. 10.00 Chs.
 N.82°15'W. 11.50 "
 S.87°W. 5.80 "
 S.69°45'W. 8.90 " At 2.00^{chs.} Indian Shack bears N.2 chs
 S.81°15'W. 3.20 "
 N.86°45'W. 4.00 " Bank 5 ft. high on E. edge outlet
 to Powell Slough.
 N.79°W. 2.10 " To W. bank outlet Powell Slough,
 water about 1 ft. deep. From this
 point Indian Ranch of about 10
 acr. extending to River Bank lies
 to N. and W., occupied by 4 fami-
 lies living in brush shacks.
 N.54°45'W. 7.70 Chs. Leave Indian ranch enter dense
 undergrowth.
 N.47°15'W. 4.20 Chs.
 N.65°45'W. 4.00 B
 N.65°15'W. 5.00 "
 N.82°10'W. 11.76 " To meander cor. between Secs. 20
 and 21.

Soil sandy loam, first rate.
 Land comparatively level, subject to overflow, banks
 3 to 5 ft. high.
 Land covered with scattering timber of Mesquite, Cotton
 wood and Willow and dense undergrowth of Arrow-wood,
 78.16 chs.

May 3, 1905.

May 4, 1905.

At 6h.30m. a.m. I set off 34°42' N. on the lat.
 arc and 15°54' N. on the decl. arc and determined a true
 meridian by the solar at the meander cor. between Secs.
 20 and 21.

Thence in Sec. 20, through scattering timber and
 dense undergrowth. River bank about 4 ft. high, cur-
 rent against this bank and continuously cutting.

N.61°30'W. 1.20 Chs.
 N.51°W. 5.00 "
 N.36°W. 8.40 "
 N.59°15'W. 7.00 "
 N.82°30'W. 10.30 "
 N.69°W. 8.20 "
 N.73°W. 10.00 "
 N.77°45'W. 7.00 "
 N.60°30'W. 7.20 "
 N.4°W. 20.00 "
 N.11°25'W. 16.91 " To meander cor. between Secs. 17
 and 20. No apparent bank at
 this point, current 4 to 5 chs.
 to W., intervening sandbars.

Soil sandy loam, first rate.
 Land level, subject to overflow of 2 to 4 ft. at high
 water.

Meanders of left bank of Colorado River, up stream.

Land covered with timber of Mesquite, cottonwood and Willow and dense undergrowth of Arrowwood, 101.21 chs.

Thence in Sec. 17.

From Meander cor. between Secs. 17 and 20, I was able to see the meander cor. between Secs. 17 and 18, therefore I ran N.13°45'W. 80.42 chs. to meander cor. between Secs. 17 and 18, over barren sandy waste, subject to overflow at ordinary high water, river bank about 3 ft. high, current against bank but not cutting.

Soil sand, worthless, fourth rate.

Land level, no vegetation.

Thence in Sec. 18.

N.51°15'W. 2.81 Chs. To meander cor. between Secs. 7 and 18.

Soil sand, worthless, fourth rate.

Land level, no vegetation.

Thence in Sec. 7, through scattering timber and dense undergrowth.

N.50°W. 12.00 Chs.

N.67°W. 21.40 "

N.54°W. 9.50 ~~8.50~~ "

N.43°30'W. 12.30 "

N.26°15'W. 3.30 "

N.58°W. 5.50 "

N.59°W. 11.50 "

N.54°15'W. 16.50 "

N.40°45'W. ~~3.50~~ "

To meander cor. on Range line between Secs. 7 and 12.

Soil, sandy loam, first rate,

Land level, subject to overflow, bank 4 ft. high; covered with scattering timber of Mesquite, Cottonwood and Willow and dense undergrowth of Arrow-wood, 94.85 chs.

95.85 chs.
May 4, 1905.

GENERAL DESCRIPTION.

This Township contains two distinct varieties of land, valley and mountains; the soil of the valley along the Colorado is generally a rich sandy loam formed by the deposit of sediment from the Colorado River, nearly all of the valley in this Township is subject to overflow from the Colorado River, the soil contains some alkali.

The soil of that portion of this Township outside the valley can be classed as third and fourth rates, producing very little vegetation, generally covered with lava rocks.

The valley land is covered with heavy growth of Mesquite, Willow and Cottonwood timber and dense undergrowth of Arrow-wood. Outside the Valley there is no water. There is one white settler in Section 34 and one in Section 35, three Indian families in Section 21.

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 T16N R21W

showing the respective capacities in which they acted:

- Henry R O'Connor Chainman.
- Geo. W. Cassidy Chainman.
- Henry R O'Connor Moundman.
- George W. Cassidy Moundman.
- J. J. Murphy Axman.
- J. W. Ricketts Axman.
- Iving V. Anger 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 T16N R21W

Salt River meridian, Territory of Oregon of the Globe and 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 Oregon

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

Subscribed and sworn to before me this 14th day of January, 1896



J. J. Fisher
Notary Public

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

BOOK 2130

John J. Fisher United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Frank S. Snydler 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. 16 N. R. 21 W

Salt River meridian, in the Territory of Arizona of the Gila and Salt River meridians, 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 1st day of February, 1906

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



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix Arizona June 29, 1906

The foregoing field notes of the survey of the subdivisional and meander lines of T. 16 N. R. 21 W of the Gila and Salt River Base and meridians in the Territory of Arizona

executed by John J. Fisher, U.S. deputy surveyor under his contract No. 128, dated March 14, 1905, 189, 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. Snydler 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.