

Book "G"

4-679.

examined filed, Sept. 1895. ^{Jan 1 1910}
accepted April 2 1907.

2134

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FIELD NOTES

BOOK 2134

OF THE SURVEY OF THE

2134

Subdivisional Lines

2134

T. 18 N., R. 21 W. + Meanders of Spear Lake.

2134

Of the *Gila & Salt River* Meridian,

AS SURVEYED BY

John J. Fisher, United States Deputy Surveyor,

Under his Contract No. *128*, dated *March 14*, 1895

Survey commenced *Nov 25*, 1895

Survey completed *Dec. 11*, 1895

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1A

NAMES AND DUTIES OF ASSISTANTS.

Henry R O Connor	Steward
Geo. W. Cassidy	Steward
Henry R O Connor	Wardman
Geo W Cassidy	Wardman
J. J. Murphy	Asst
J. W. Rickells	Asst
Irving V Auger	Flagman

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INDEX DIAGRAM.

Township 18 N, Range 21 W

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27		21		19						
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19		16		11		7		↓		↓
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PRELIMINARY OATHS OF ASSISTANTS.

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BOOK 2134

WE, Henry R O'Connor and George H Cassidy
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of Subdivisional lines T. 18 N. R. 21 W

Henry R O'Connor, Chainman.
Geo. H. Cassidy, Chainman.

Subscribed and sworn to before me this 4th
day of October, 1895



My commission expires
May 19, 1908

J. J. Fisher
Notary Public

WE, Henry R O'Connor and Geo. H 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 lines T. 18 N. R. 21 W

Henry R O'Connor, Moundman.
Geo. H. Cassidy, Moundman.

Subscribed and sworn to before me this 4th
day of October, 1895



My commission expires
May 19, 1908

J. J. Fisher
Notary Public

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

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of Subdivisional lines T 18 N R 21 W

J. J. Murphy, Axman.
J. W. Ricketts, Axman.

Subscribed and sworn to before me this 4th
day of October, 1895



My commission expires
May 19, 1908

J. J. Fisher
Notary Public

I, Irving V Anger, 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 lines T. 18 N. R. 21 W

Irving V. Anger, Flagman.

Subscribed and sworn to before me this 4th
day of October, 1895



My commission expires
May 19, 1908

J. J. Fisher
Notary Public

Subdivisions of T.18 N., R. 21 W.

Chains

Survey commenced November 25, 1905 and executed with a W & L.E.Gurley Light Mountain Transit, not numbered, with a Smith solar attachment, the horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of arc, which is also the least count of the verniers of the lat. and decl.arc.

The instrument was examined and tested on the true meridian at Phoenix, found correct and was approved by the Surveyor General of Arizona September 25, 1905. I examined the adjustments of the transit and corrected the level and collimation errors; then to test the solar apparatus by comparing its indication resulting from solar observations made during a.m. and p.m. hours with a true meridian which I establish with Polaris observation November 16, 1905, I proceed as follows:-
At cor.Tps.17 and 18 N., Rs. 20 and 21 W., lat 34°49' 44.4" N., long. ~~114°20'13"W.~~ ^{114°24'30"W.} at 4h.p.m.l.m.t. I set off 34°50'N.on the lat.arc and 20°43'1/2S.on the decl. arc and determine a true meridian by the solar and mark a point thereof in a stone firmly set in ground 5 chs. N. of corner, stone set November 15, this mark falls 0.25 inches W. of the meridian determined by Polaris observation November 16.

November 25, 1905.

November 26, 1905.

AT 8h.a.m.l.m.t. I set off 34°50'N.on the lat.arc and 20°51'S.on the decl.arc and determine a true meridian with the solar and mark a point thereof on the stone set November 15, 5 chs. N. of corner, this point falls 0.30 inches East of the meridian established by Polaris observation.

The solar apparatus by a.m. and p.m. observations defines positions for meridians respectively about 0' 13" W. and 0'16" 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° 15'W. which gives the mag.decl. 15°15'E.

November 26, 1905.

At 9h.a.m.l.m.t. I set off 34°50'N.on the lat.arc 20°52'S.on the decl.arc and determine a true meridian with the solar at cor.Secs.1,2,35,36,

Thence I run,

N.0°1'W. between Secs. 35 and 36, over rolling mountainous country,

Descend,

7.50 Cross dry wash 25 lks.wide, course W.

Ascend,

11.00 Cross ridge, course E. and W.

Descend,

14.50 Cross dry wash 20 lks.wide, course W.

Ascend,

20.00 Cross ridge, course E. and W.,

Descend,

25.25 Cross dry wash, 60 lks.wide, course SW.

Ascend,

35.00 Cross ridge, course NE. and SW.

Descend,

40.00 Set a lava stone 13x12x8 ins. ¹²14 ins.in ground for 1/4 Sec.cor. marked 1/4 on W.face, raised mound of stones 2 ft.base 1.5 ft.high W.of cor.

No trees, pits impracticable,

44.00 Cross gulch 50 lks.wide, course SW.

Ascend,

70.00 Cross summit of ridge, course NE. and SW.

Chains

80.00 Descend,
Set a lava stone 18x10x10 ins. ¹²14 ins.in ground for cor.
Secs. 25,26,35,36, marked 1 groove on E. and 1 groove
on S. edges, raised mound of stones 2 ft.base, 1.5 ft.
high W.of cor.
No trees, pits impracticable,
Soil rocky, lava formation, fourth rate,
Land rolling mountaineous, very little vegetation,
Mountaineous land 80.00 chs.

Thence I run,
East on a random line between Secs. 25 and 36,
40.00 Set temporary 1/4 Sec.cor.
80.00 Intersect Range line at N. 8 lks.from cor.Secs.25,30,
31,36,
Thence I run,
N.89°57'W. on a true line between Secs. 25 and 36,
40.00 Descending gently along ~~summit~~ ^{summit} of ridge,
Set a lava stone 18x8x6 ins. ¹⁴14 ins.in ground for 1/4
Sec.cor.marked 1/4 on N,face, raised mound of stones
2 ft.base 1.5 ft.high N.of cor.
80.00 No trees, pits impracticable,
The cor.Secs.25,26,35,36,
Soil rocky, lava formation, fourth rate,
Land level, very little vegetation,

Thence I run,
N.0°1'W. between Secs. 25 and 26, over rough broken
mountaineous country.
Descend,
9.25 Enter canon,
12.00 Cross dry bed of canon 50 lks.wide, course SW.
Ascend,
14.75 Leave canon,
18.00 Cross summit of ridge, course NE. and SW.
Descend,
25.00 Cross canon 50 lks.wide, course SW.
Ascend,
35.00 Cross summit of ridge, course NE. and SW.
Descend,
40.00 Set a lava stone 18x12x8 ins. ¹²14 ins.in ground for 1/4
Sec.cor.marked 1/4 on W.face, raised mound of stones
2 ft.base 1.5 ft.high W.of cor.
No trees, pits impracticable.
44.00 Cross canon, 60 lks.wide, course SW.
Ascend,
58.00 Cross ridge, course NE. and SW.
Descend,
72.00 Cross dry wash 30 lks.wide. course SW.
Ascend,
80.00 Set a lava stone 20x15x7 ins. ¹⁵16 ins.in ground for cor.
Secs. 23,24,25,26, marked 1 groove on E. and 2 grooves
on S.faces, raised mound of stones 2 ft.base 1.5 ft.
high W. of cor.
No trees, pits impacticable,
Soil rocky lava formation, fourth rate,
Land mountaineous, no timber, very little vegetation,
Mountaineous land 80.00 chs.

November 26, 1905.

November 27, 1905,
At 8h.a.m.l.m.t.I set off 34°50'N.on the lat.arc and
21°2'S.on the decl.arc and determine a true meridian
with the solar at cor.Secs.2,3,34,35,
Thence I run,
N.0°1'W. between Secs. 34 and 35, over rolling moun-
taineous country.

Subdivisions of T. 18 N., R. 21 W., continued.

Chains	Descend, 14.50 Cross canon 60 lks.wide, course SW. Ascend, 21.00 Cross ridge, course NE. and SW. Descend, 27.25 Cross canon 40 lks.wide, course SW. Ascend, 40.00 Set a lava stone 16x12x12 ins. ¹¹ ins.in ground for 1/4. Sec.cor.marked 1/4 on W.face, raised mound of stones 2 ft.base 1.5 ft.high W.of cor. No trees, pits impracticable, 45.00 Cross summit of ridge, course NE. and SW. Descend, 57.00 Cross canon, 30 lks.wide, course SW. Ascend, 67.00 Cross summit of ridge, course NE. and SW. Descend, 72.75 Enter canon, course SW. 80.00 Set a lava stone 18x12x12 ins. ¹² ins.in ground for cor. Secs. 26,27,34,35, marked 2 grooves on E. and 1 groove on S.faces, raised mound of stones 2 ft.base 1.5 ft. high W.of cor. No trees, pits impracticable, Soil, rocky, lava formation, fourth rate, Land rolling mountaineous, very little vegetation, Mountaineous land 80.00 chs.

	Thence I run, East on a random line between Secs. 26 and 35, 40.00 Set temporary 1/4 Sec.cor. 79.90 Intersect Sec.line at S.8 lks.from cor.Secs. 25,26,35,36, Thence I run, S.89°57'W.on a true line, ^{North Slope} between Secs. 26 and 35, gently descending over summit of ridge, 39.95 Set a lava stone 20x12x8 ins. ¹⁶ ins.in ground for 1/4 Sec.cor.marked 1/4 on N.face, raised mound of stones 2 ft.base 1.5 ft.high N.of cor. No trees, pits impracticable, 55.00 Edge of canon, descend abruptly, 79.90 Cor.Secs.26,27,34,35, Soil rocky, lava formation, fourth rate, Land broken, and level, very little vegetation,

	November 27. At 12h.m.1.m.t. I set off 21°06'S.on the decl.arc and observed the sun on the meridian at cor.Secs.26,27, 34,35, the resulting lat.being 34°51'N.✓ Thence I run, N.0°1'W.between Secs. 26 and 27, over rolling moun- taineous country, Descend, 18.00 Cross dry bed of canon, 50 lks.wide, course SW. Ascend, 19.78 Leave canon, 21.00 Summit of ridge, course NE. and SW. Descend, 27.25 Cross gulch, 25 lks.wide, course SW. Ascend, 40.00 Summit of ridge, course NE. and SW. Set a lava stone 18x6x6 ins. ¹⁴ ins.in ground for 1/4 Sec.cor.marked 1/4 on W.face, raised mound of stones 2 ft.base 1.5 ft.high W.of cor. No trees, pits impracticable. Descend, 45.50 Cross canon 40 lks.wide, course W.

Chains	Ascend, 60.00 Cross summit of ridge, course NE. and SW. Descend, 71.00 Cross canon, 60 lks.wide, course W. Ascend, 80.00 Top of ridge, course NE. and SW. ¹² Set a lava stone 18x12x10 ins. 14 ins.in ground for cor.Secs.22,23,26,27, marked 2 grooves on S. and E. edges, raised mound of stones 2 ft.base 1.5 ft.high W.of cor. No trees, pits impracticable. Soil rocky, lava formation, fourth rate, Land rolling mountaineous, very little vegetation, principally grease-wood brush. Mountaineous land 80.00 chs.

	Thence I run, N.89°57'E. on a random line between Secs. 23 and 26, over rolling mountaineous country, 40.00 Set temporary 1/4 Sec.cor. 80.10 Intersect Sec.line at 2 lks.S.of cor.Secs. 23,24,25,26, Thence I run, S.89°56'W. on a true line between Secs. 23 and 26, Descend, 13.85 Enter canon, 19.00 Cross dry bed of canon 50 lks.wide, course SW. Ascend, 20.10 20.10 Leave canon, 23.00 Cross summit of ridge, course NE. and SW. Descend, 25.10 Cross gulch, 40 lks.wide, course SW. Ascend, 40.05 Set a lava stone 20x12x8 ins. ¹⁵ 16 ins.in ground for 1/4 Sec.cor.marked 1/4 on N.face, raised mound of stones 2 ft.base 1.5 ft.high N.of cor. No trees, pits impracticable 45.00 Summit of ridge, course NE. and SW. Descend, 65.60 Cross canon 50 lks.wide, course SW. Ascend, 80.10 The cor.Secs.22,23,26,27, Soil rocky, lava formation, fourth rate, Land rolling mountaineous, very little vegrtation, principally grease wood brush, Mountaineous land 80.10 chs.

November 27, 1905.	

	November 28, 1905. ✓ At 8h.a.m.1p.m.t. I set off 34°51'N.on the lat.arc and 21°13'S.on the decl.arc and determine a true meri- dian with the solar at cor.Secs.23,24,25,26, Thence I run, S.89°57'E. on a random line between Secs. 24 and 25 40.00 Set temporary 1/4 Sec.cor. 79.98 Intersect cor.Secs.19,24,25,30. Thence I run N.89°57'W.on a true line between Secs. 24 and 25, Ascend, 5.00 Summit of ridge, course NE. and SW. Descend, 14.48 Enter canon, 19.00 Cross dry bed of canon, 40 lks.wide, course SW. Ascend, 23.00 Leave canon, 28.00 Cross ridge, course NE. and SW. Descend, 35.00 Cross canon, 50 lks.wide, course SW.

Subdivisions of T. 18 N., R. 21 W., continued.

Chains	
39.99	Ascend, Set a lava stone 20x15x10 ins. ¹⁵ 16 ins.in ground for 1/4 Sec.cor.marked 1/4 on N.face, raised mound of stones 2 ft.base 1.5 ft.high N.of cor.
41.00	No trees, pits impracticable, Summit of ridge, course NE. and SW.
46.73	Descend, Enter canon,
50.00	Cross dry bed of canon 50 lks.wide course SW.
79.98	Ascend, The cor.Secs. 23,24,25,26, Soil rocky, lava formation, fourth rate, Land rolling mountaineous, very little vegetation, Mountaineous land 79.98 chs.

Thence I run, N.0°1'W. between Secs. 23 and 24, over rolling mountaineous country,	
2.50	Descend, Enter canon, descend abruptly,
9.35	Cross dry bed of canon, 50 lks.wide, course W.
16.20	Ascend, N.rim of canon, <i>summit</i>
20.00	Cross ridge, course NE. and SW.
24.00	Descend, Cross canon 150 lks.wide, course SW.
40.00	Ascend, Summit of ridge, course NE. and SW. //
42.50	Set a lava stone 16x12x6 ins. 12 ins.in ground for 1/4 Sec.cor.marked 1/4 on W.face, raised mound of stones 2 ft.base 1.5 ft.high W.of cor. No trees, pits impracticable.
42.50	Descend, Cross dry wash, 200 lks.wide, course SW.
50.00	Ascend, Cross summit of ridge, course NE. and SW.
57.25	Descend, Cross gulch 60 lks.wide, course SW.
60.00	Ascend, Cross ridge, course NE. and SW.
63.50	Descend, Cross gulch 150 lks.wide, course SW.
66.00	Ascend, Cross ridge, course NE. and SW.
68.75	Descend, Cross gulch 100 lks.wide, course SW.
80.00	Ascend, Set a lava stone 16x12x12 ins. // 12 ins.in ground for cor. Secs.13,14,23,24, marked 3 grooves on S. and 1 groove on E. edges, raised mound of stones 2 ft.base 1.5 ft.high W.of cor.
80.00	No trees pits impracticable, Soil rocky, lava formation, fourth rate, Land rolling mountaineous, very rough, Mountaineous land 80.00 chs.

Thence I run, S.89°57'E. on a random line between Secs.13 and 24,	
40.00	Set temporary 1/4 Sec.cor.
80.00	Intersect Range line at 8 lks.N.of cor.Secs.13,18,19,24, Thence I run, N.89°54'W. on a true line between Secs.13 and 24,
5.00	Ascend, Summit of ridge, course NE. and SW.
11.50	Descend, Cross gulch 60 lks.wide, course SW.

Chains	
14.75	Ascend, Summit of ridge, course NE. and SW.
18.75	Descend, Cross gulch 30 lks.wide, course SW.
40.00	Ascend, Summit of ridge, course NE. and SW.// Set a lava stone 16x10x8 ins. 12 ¹² ins.in ground for 1/4 Sec.cor.marked 1/4 on N.face, raised mound of stones 2 ft.base 1.5 ft.high N.of cor. No trees, pits impracticable,
49.25	Descend, Cross gulch 30 lks.wide, course SW.
65.00	Ascend, Cross summit of ridge, course NE. and SW.
75.00	Descend, Cross gulch 40 lks.wide, course SW.
80.00	Ascend, Cor.Secs. 13,14,23,24, Soil rocky, lava formation, fourth rate, Land rolling mountaineous, very rough, little vegeta- tion, principally grease-wood brush. Mountaineous land 80.00 chs.
November 28, 1905.	

	November 29, 1905. At 8h.a.m.l.m.t. I set off 34°50'N.on the lat.arc and 21°24'S.on the decl.arc and determine a true meridian with the solar at cor.Secs. 3,4,33,34, Thence I run, N.0°2'W. between Secs. 33 and 34, over rolling moun- taineous country, Ascend,
30.00	Summit of ridge, course NE. and SW.
40.00	Descend, Set a lava stone 20x14x12 ins. 16 ¹⁵ ins.in ground for 1/4 Sec.cor.marked 1/4 on W. face, raised mound of stones 2 ft.base 1.5 ft.high W.of cor. No trees, pits impracticable.
49.00	Enter canon,
52.00	Cross dry bed of canon, 50 lks.wide, course SW.
55.00	Ascend, Leave canon, <i>found</i>
60.00	Cross ridge, course NE. and SW.
69.50	Descend, Cross dry wash 100 lks.wide, course SW.
80.00	Ascend, Set a lava stone 20x10x8 ins. 16 ¹⁵ ins.in ground for cor. Secs. 27,28,33,34, marked 3 grooves on E. and 1 groove on S.edges, raised mound of stones 2 ft.base 1.5 ft.high W.of cor. No trees, pits impracticable, Soil rocky, lava formation, fourth rate, Land rolling mountaineous, very little vegetation, Mountaineous land 80.00 chs.

	Thence I run, East on a random line between Secs.27 and 34,
40.00	Set temporary 1/4 Sec.cor.
79.88	Intersect Sec.line at 1 lk.S.of cor.Secs.26,27,34,35, Thence I run, West on a true line between Secs. 27 and 34, along S.edge of canon
21.00	Cross dry bed of canon 100 lks.wide, course SW.
39.94	Ascend on N. side canon, Set a lava stone 18x15x7 ins. 14 ¹² ins.in ground for 1/4 Sec.cor.marked 1/4 on N.face, raised mound of stones 2 ft.base, 1.5 ft.high N.of cor. No trees, pits impracticable,

Subdivisions of T. 18 N., R. 21 W., continued,

Chains

- 43.00 Leave canon, *thence along S. slope of ridge*
 79.88 The cor. Secs. 27, 28, 33, 34,
 Soil rocky, lava formation, fourth rate,
 Land rolling mountaineous, very little vegetation,
 Mountaineous land ~~39.88~~ chs.
-
- November 29.
 At 12h.m.l.m.t. I set off 21°27'S. on the decl. arc and
 observed the sun on the meridian at cor. Secs. 27, 28,
 33, 34, the resulting lat. being 34°51'N.
 Thence I run,
 N. 0°2'W. between Secs. 27 and 28,
 Descend,
 25.00 Cross dry wash 40 lks. wide, course SW.
 Ascend,
 33.00 Cross ridge, course E. and W.
 Descend,
 39.00 Cross dry wash 30 lks. wide, course W.
 Ascend,
 40.00 Set a lava stone 18x10x10 ins. ¹² ins. in ground for 1/4
 Sec. cor. marked 1/4 on W. face, raised mound of stones
 2 ft. base 1.5 ft. high W. of cor.
 No trees, pits impracticable,
 50.00 Cross summit of ridge, course E. and W.
 Descend,
 58.25 Cross dry wash 50 lks. wide, course W.
 Ascend,
 63.00 Cross ridge, course E. and W.
 Descend,
 68.50 Cross dry wash 100 lks. wide, course W.
 Ascend,
 73.00 Top of ridge, course E. and W.
 Descend,
 78.50 Cross dry wash 30 lks. wide, course SW.
 Ascend,
 80.00 Set a lava stone 24x15x12 ins. 18 ins. in ground for cor
 Secs. 21, 22, 27, 28, marked 2 grooves on S. on 3 grooves
 on E. edges, raised mound of stones 2 ft. base 1.5 ft.
 high W. of cor.
 No trees, pits impracticable,
 Soil rocky, lava formation, fourth rate,
 Land rolling mountaineous, very little vegetation,
 Mountaineous land 80.00 chs.
-
- Thence I run,
 East on a random line between Secs. 22 and 27,
 40.00 Set temporary 1/4 Sec. cor.
 79.94 Intersect Sec. line at 10 lks. N. of cor. Secs. 22, 23, 26, 27,
 Thence I run,
 N. 89°56'W. on a true line between Secs. 22 and 27,
 Descend,
 13.00 Cross dry wash 50 lks. wide, course SW.
 Ascend,
 39.97 Summit of ridge, course NE. and SW. ✓
 Set a lava stone 16x10x8 ins. ~~12~~ ins. in ground for 1/4
 Sec. cor. marked 1/4 on N. face, raised mound of stones
 2 ft. base 1.5 ft. high N. of cor.
 No trees, pits impracticable.
 Descend,
 57.44 Cross dry wash, 100 lks. wide, course SW.
 Ascend,
 62.50 Cross summit of ridge, course NE. and SW.
 Descend,
 67.50 Cross dry wash 50 lks. wide, course SW.
 Ascend,
 79.94 The cor. Secs. 21, 22, 27, 28,

Chains

Soil rocky, lava formation, fourth rate,
Land rolling mountaineous, very little vegetation,
Mountaineous land 79.94 chs.

November 29, 1905.

November 30, 1905.

At 8h.a.m.1.m.t. I set off $34^{\circ}51'N.$ on the lat.arc
 $21^{\circ}34'S$ on the decl.arc and determine a true meridian
with the solar at cor.Secs. 22,23,26,27,

Thence I run,

$N.0^{\circ}1'W.$ between Secs.22 and 23, over rolling moun-
taineous country,

Descend,

10.50 Cross dry wash 50 lks.wide, course W.

Ascend,

24.00 Cross summit of ridge, course NE. and SW.

Descend,

36.25 Cross dry wash 50 lks.wide, course W.

Ascend,

40.00 Set a lava stone $18 \times 12 \times 9$ ins. ~~14~~¹² 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,

45.00 Cross summit of ridge, course E.and W.

Descend,

54.00 Cross dry wash 100 lks.wide, course SW.

Ascend,

63.00 Cross summit of ridge, course NE. and SW.

Descend,

72.00 Cross dry wash 50 lks.wide, course SW.

Ascend,

80.00 Set a lava stone $24 \times 12 \times 9$ ins. 18 ins.in ground for cor.
Secs. 14,15,22,23, marked 3 grooves on S. and 2
grooves on E. edges, raised mound of stones 2 ft.
base 1.5 ft.high W.of cor.

No trees, pits impracticable,

Soil rocky, lava formation, fourth rate,

Land rolling mountaineous, very little vegetation,

Mountaineous land 80.00 chs.

Thence I run,

$N.89^{\circ}56'E.$ on a random line between Secs.14 and 23,

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

80.06 Intersect cor.Secs. 13,14,23,24,

Thence I run,

$S.89^{\circ}56'W.$ on a true line between Secs. 14 and 23,

Ascend,

15.00 Cross summit of ridge, course NE. and SW.

Descend,

31.00 Cross gulch 20 lks.wide, course SW.

Ascend,

32.50 Cross summit of ridge, course NE. and SW.

Descend,

34.00 Cross gulch 30 lks.wide, course SW.

Ascend,

40.03 Summit of ridge, course N. and S.//

Set a lava stone $16 \times 12 \times 8$ ins. ~~12~~ ins.in ground for $1/4$
Sec.cor.marked $1/4$ on N. face, raised mound of stones
2 ft.base, 1.5 ft.high N.of cor.

No trees, pits impracticable,

Descend,

44.50 Cross gulch 30 lks.wide, course NW.

Ascend,

51.00 Cross summit of ridge, course N.and S.

Descend,

58.00 Cross gulch 30 lks.wide, course SW.

Ascend,

Subdivisions of T. 18 N., R. 21 W., continued.

Chains	
65.00	Cross summit of ridge, course NE. and SW. Descend,
72.50	Cross gulch 30 lks.wide, course SW. Ascend,
80.06	Cor.Secs. 14,15,22,23, Soil rocky, lava formation, fourth rate, Land rough, rolling mountaineous, very little vegeta- tion, Mountaineous land 80.06 chs.

Thence I run,	
from cor.Secs. 21,22,27,28, N.0°2'W. between Secs. 21 and 22, over rolling mountaineous country,	
Descend,	
15.50	Enter canon,
17.50	Cross dry bed of canon 100 lks.wide, course SW. Ascend,
19.50	Leave canon,
34.00	Summit of ridge, course NE. and SW. Descend,
34.75	Cross Telephone line, course NE. and SW.
38.15	Cross road, course NE. and SW. //
40.00	Set a lava stone 16x10x8 ins. 12 ins.in ground for 1/4 Sec.cor.marked 1/4 on W.face, raised mound of stones 2 ft.base 1.5 ft.high W.of cor.
No trees, pits impracticable.	
46.50	Cross dry wash 100 lks.wide course W. Ascend,
50.00	Cross summit of ridge, course E. and W. Descend,
54.50	Cross dry wash 150 lks.wide, course W. Ascend,
65.00	Cross summit of ridge, course NE. and SW. Descend,
80.00	Set a lava stone 20x10x8 ins. 16 ins.in ground for cor. Secs. 15,16,21,22, marked T.18 N.on NE., R.21 W.on SE. faces, 3 grooves on E.and S. edges, raised mound of stones 2 ft.base 1.5 ft.high W.of cor.
No trees, pits impracticable,	
Soil rocky, lava formation, fourth rate,	
Land, rolling mountaineous, very little vegetation,	
Mountaineous land 80.00 chs.	

November 30, 1905.	

December 1, 1905.	
At 8h.a.m.l.m.t. I set off 34°50'N.on the lat.arc 21°43'S.on the decl.arc and determine a true meridian with the solar at cor.Secs.4,5,32,33,	
Thence I run, N.0°2'W.between Secs. 32 and 33, over rough mountain- ous country,	
Descend,	
10.75	Cross gulch, 75 lks.wide, course SW. Ascend,
18.00	Cross summit of ridge, course E.and W. Descend,
25.50	Cross gulch 20 lks.wide, course W. Ascend,
35.00	Summit of ridge, course E.and W. Descend,
37.00	Enter canon,
40.00	Set a lava stone 24x12x5 ins. in mound of stones for 1/4 Sec.cor.marked 1/4 on W.face, raised mound of stones 2 ft.base 1.5 ft.high W.of cor.
No trees, pits impracticable,	
45.50	Cross dry bed of canon 50 lks.wide, course SW. Ascend,

Chains

47.50 Leave canon, *ascend*
 49.00 Cross ridge, course E. and W.
 Descend,
 51.25 Enter canon,
 54.50 Cross dry bed of canon 50 lks. wide, course SW.
 Ascend,
 57.85 Leave canon, *ascend*
 65.00 Cross summit of ridge, course NE. and SW.
 Descend,
 71.50 Cross dry wash, 50 lks. wide, course SW.
 Ascend,
 80.00 Set a lava stone 20x12x7 ins. ¹⁶ ins. in ground for cor.
 Secs. 28, 29, 32, 33, marked 1 groove on S. and 4
 grooves on E. edges, raised mound of stones 2 ft. base
 1.5 ft. high W. of cor.
 No trees, pits impracticable,
 Soil rocky, lava formation, fourth rate,
 Land rough mountaineous, very little vegetation,
 Mountaineous land 80.00 chs.

 Thence I run,
 East on a random line between Secs. 28 and 33,
 40.00 Set temporary 1/4 Sec. cor.
 80.10 Intersect Sec. line at N. 15 lks. of cor. Secs. 27, 28, 33, 34,
 Thence I run,
 N. 89° 54' W. on a true line between Secs. 28 and 33,
 over ~~lava~~ land sloping to S. and W.
 40.05 Set a lava stone 20x10x5 ins. ¹⁶ ins. in ground for 1/4
 Sec. cor. marked 1/4 on N. face, raised mound of stones
 2 ft. base 1.5 ft. high N. of cor.
 No trees, pits impracticable,
 Descend,
 58.70 Cross dry creek 50 lks. wide, course SW.
 Ascend,
 80.10 The cor. Secs. 28, 29, 32, 33,
 Soil rocky, lava formation, fourth rate,
 Land level, very little vegetation,

 Thence I run,
 N. 0° 2' W. between Secs. 28 and 29,
 Ascend,
 8.00 Summit of ridge, course NE. and SW.
 Descend,
 16.50 Cross dry wash 50 lks. wide course W.
 Ascend,
 40.00 Set a lava stone 18x8x6 ins. ¹² ins. in ground for 1/4
 Sec. cor. marked 1/4 on W. face, raised mound of stones
 2 ft. base 1.5 ft. high W. of cor.
 No trees, pits impracticable,
 Descend,
 65.25 Enter canon,
 66.00 Cross dry bed of canon, 50 lks. wide course SW.
 Ascend,
 67.00 Leave canon,
 71.25 Cross telephone line course NE. and SW.
 72.00 Cross road, course NE. and SW.
 80.00 Summit of ridge, course NE. and SW.
 Set a lava stone 20x12x10 ins. ¹⁶ ins. in ground for cor.
 Secs. 20, 21, 28, 29, marked 2 grooves on S. and 4
 grooves on E. edges, raised mound of stones 2 ft.
 base 1.5 ft. high W. of cor.
 No trees, pits impracticable.
 Soil rocky, lava formation, fourth rate,
 Land level and mountaineous, very little vegetation,
 Mountaineous land 15.00 chs.

Chains	
	Thence I run, S.89°54'E. on a random line between Secs.21 and 28
40.00	Set temporary 1/4 Sec.cor.
80.00	Intersect Sec.line at 4 lks.S.of cor.Secs.21,22,27,28, Thence I run, N.89°56'W.on a true line between Secs. 21 and 28, over level ridge sloping to S.and W.
40.00	Set a lava stone 18x10x8 ins.in mound of stone for 1/4 sec.cor.marked 1/4 on N.face, raised mound of stones 2 ft.base 1.5 ft.high N.of cor. No trees, pits impracticable, Descend,
45.50	Enter canon,
50.00	Cross dry bed of canon 50 lks.wide, course SW.
56.15	Leave canon, Ascend,
61.63	A point, whence, Quartz Mill bears N.67°15'E. House No.5 bears N.5°E. " No.4 bears North, " No.3 bears N.19°15'W. " No.2 bears N.39°W. " No.1 bears N.63°30'W. These buildings are known as "Mill Town"
63.05	Cross telephone line, course NE. and SW.
65.55	Cross road, course NE. and SW.
66.48	A point whence, Quartz Mill bears N.78°E. House No.5 bears N.44°30'E. " No.4.bears N.42°15'E. " No.3 bears N.31°20'E. " No.2 bears N.24°15'E. " No.1 bears N.15°15'W.
80.00	Cor.Secs.20,21,28,29, Soil rocky, fourth rate, Land level and broken, very little vegetation, ----- December 1, 1905. ----- December 2, 1905. At 8h.a.m.1.m.t. I set off 34°51'N.on the lat.arc 21°52'S.on the decl.arc and determine a true meridian at cor.Secs.20,21,28,29, Thence I run, N.0°2'W.over rough mountaineous country between Secs. 20 and 21, Descend, 6.50 Cross canon 60 lks.wide, course SW. Ascend, 9.00 Cross summit of ridge, course NE. and SW. Descend, 11.50 Cross canon 50 lks.wide, course SW. Ascend, 17.75 Cross telephone line, course NE. and SW. 18.25 Cross Mohave and Mill town R.R., course NE. and SW. 25.00 Cross summit of ridge, course NE. and SW. Descend 32.50 Cross gulch 20 lks.wide, course W. Ascend, 40.00 Summit of ridge, course NE. and SW. Set a pava stone 24x15x8 ins. 18 ins.in ground for 1/4 Sec.cor.marked 1/4 on W.face, raised mound of stones 2 ft.base 1.5 ft.high W.of cor. No trees, pits impracticable, Descend, 44.50 Cross dry wash 100 lks.wide, course SW. Ascend, 52.00 Cross summit of ridge, course NE. and SW. Descend, 60.00 Cross dry wash 150 lks.wide, course SW.

Chains	
65.00	Ascend, Cross ridge, course NE. and SW.
69.00	Descend, Cross dry wash 200 lks.wide course SW.
80.00	Ascend, Summit of ridge, course NE. and SW. Set a lava stone 18x10x10 ins. 14 ins.in ground for cor.Secs. 16,17,20,21, marked 3 grooves on S. and 4 grooves on E. edges, raised mound of stones 2 ft. base 1.5 ft.high W.of cor. No trees, pits impractical, Soil rocky, lava formation, fourth rate, Land rough, rolling mountaineous, very little vegetation Mountaineous land 80.00 chs.

	Thence I run, S.89°56'E.on a random line between Secs. 16 and 21, over rough mountaineous country,
40.00	Set temporary 1/4 Sec.cor.
80.05	Intersect Sec.line at 1/2 Sec. lks.from cor.Secs.15,16,21,22, Thence I run, S.89°59'W. on a true line between Secs. 16 and 21,
0.15	Cross telephone line, course NE. and SW.
0.80	Cross Mohave & Mill Town R.R., course NE. and SW.
9.00	Ascend, Top of ridge, course NE. and SW.
12.80	Descend, Cross dry wash, 20 lks.wide, course SW.
29.00	Ascend, Summit of ridge, course NE. and SW.
40.025	Descend, Set a lava stone 18x10x6 ins. 14 ins.in ground for 1/4 Sec.cor.marked 1/4 on N.face, raised mound of stones 2 ft.base 1.5 ft.high N.of cor. No trees, pits impracticable,
41.00	Cross dry wash 25 lks.wide, course SW.
42.50	Ascend, Cross ridge, course NE. and SW.
47.00	Descend, Cross dry wash 25 lks.wide, course SW.
50.00	Ascend, Top of ridge, course NE. and SW.
52.20	Descend, Enter dry wash,
59.00	Cross dry bed of wash, 50lks.wide, course SW.
65.50	Ascend, Leave wash,
80.05	Cor.Secs. 16,17,20,21, Soil rocky, lava formation, fourth rate, Land rough mountaineous, very little vegetation, principally grease-wood brush, Mountaineous land 80.05 chs.

	Thence I run, N.0°2'W. between Secs. 16 and 17, over rough mountaineous country,
12.00	Descend, Cross dry wash, course SW., 50 lks.wide, ascend,
15.50	Cross ridge, course NE. and SW.
19.00	Descend, Cross dry wash, 75 lks.wide, course SW.
27.00	Ascend, Cross ridge, course E. and W.
34.50	Descend, Cross dry wash, 100 lks.wide, course W. Ascend,

Chains
 38.50 Cross ridge, course E. and W.
 Descend,
 40.00 Set a lava stone 18x10x8 ins. ¹²14 ins. in ground for 1/4
 Sec. cor. marked 1/4 on W. face, raised mound of stones
 2 ft. base 1.5 ft. high W. of cor.
 No trees, pits impracticable.
 41.50 Cross dry wash, 40 lks. wide, course W.
 Ascend,
 50.00 Cross ridge, course E. and W.
 Descend,
 60.00 Cross dry wash 100 lks. wide, course SW.
 Ascend,
 65.00 Cross ridge, course E. and W.
 Descend,
 69.25 Enter canon,
 71.50 Cross dry bed of canon, 50 lks. wide, course SW.
 Ascend,
 73.50 Leave canon,
 80.00 Summit of ridge, course E. and W. ¹²
 Set a lava stone 16x10x8 ins. ¹⁴14 ins. in ground for
 Cor. Secs. 8, 9, 16, 17, marked 4 grooved on S. and 4
 grooves on E. edges, raised mound of stones 2 ft. base
 1.5 ft. high W. of cor.
 No trees, pits impracticable,
 Soil rocky, lava formation, fourth rate,
 Land rough mountaineous, very little vegetation, prin-
 cipally grease-wood brush,
 Mountaineous land 80.00 chs.

 December 2, 1905.

December 4, 1905. ✓

At 8h. a.m. l.m.t. I set off $34^{\circ}52'N.$ on the lat. arc
 $22^{\circ}10'S.$ on the decl. arc and determine a true meri-
 dian with the solar at cor. Secs. 15, 16, 21, 22,
 Thence I run,
 $S. 89^{\circ}56'E.$ on a random line between Secs. 15 and 22,
 40.00 Set temporary 1/4 Sec. cor.
 79.98 Intersect Sec. line at N. 5 lks. from cor. Secs. 14, 15, 22, 23,
 Thence I run, along summit of high ridge,
 $N. 89^{\circ}54'W.$ on a true line between Secs. 15 and 22,
 9.00 Cross telephone line course NE. and SW.
 10.50 Cross road, course NE. and SW. ✓
 39.99 Set a lava stone 20x10x6 ins. ¹⁶16 ins. in ground for 1/4
 Sec. cor. marked 1/4 on N. face, raised mound of stones
 2 ft. base 1.5 high N. of cor.
 No trees, pits impracticable,
 Descend,
 52.75 Cross gulch 40 lks. wide, course SW.
 Ascend,
 79.98 Cor. Secs. 15, 16, 21, 22,
 Soil rocky, lava formation, fourth rate,
 Land mostly level, very little vegetation, principally
 grease-wood brush,

 Thence I run,
 $N. 0^{\circ}2'W.$ between Secs. 15 and 16, over rough moun-
 taineous country,

0.25 Cross telephone line, course NE. and SW.
 0.75 Cross Mohave & Mill Town R.R., course NE. and SW.
 Ascend,
 15.00 Summit of ridge, course NE. and SW.
 Descend,
 20.75 Enter canon,
 25.00 Cross dry bed of canon, 50 lks. wide, course W.
 Ascend,
 28.50 Leave canon, *Ascend*.
 30.00 Cross summit of ridge, course NE. and SW.

Chains

34.50 Descend,
Cross dry wash 50 lks.wide, course SW.
Ascend,
40.00 Set a lava stone 16x10x10 ins. ~~12~~¹¹ ins.in ground for 1/4
Sec.cor.marked 1/4 on W.face, raised mound of stones
2 ft.base 1.5 ft.high W.of cor.
No trees, pits impracticable.
48.00 Summit of ridge, course NE. and SW.
Descend,
59.00 Cross dry wash 75 lks.wide, course W.
Ascend,
75.00 Cross summit of ridge, course E. and W.
Descend,
80.00 Set a lava stone 18x10x10 ins. ~~14~~¹² ins.in ground for
cor Secs. 9,10,15,16, marked 4 grooves on S. and 3
grooves on E.edges, raised mound of stones 2 ft.
base 1.5 ft.high W.of cor.
No trees, pits impracticable,
Soil rocky, lava formation, fourth rate,
Land rough mountaineous, very little vegetation, prin-
cipally grease-wood brush,
Mountaineous land 80.00 chs.

Thence I run,
N.0°2'W. between Secs. 9 and 10, over rough moun-
taineous country,

Descend,
3.75 Cross dry wash 40 lks.wide, course W.
Ascend,
15.00 Cross summit of ridge, course E. and W.
Descend,
25.00 Cross dry wash, 30 lks.wide, course SW.
Ascend,
40.00 Set a lava stone 18x15x8 ins. ~~14~~¹² ins.in ground, for 1/4
Secs cor. marked 1/4 on W.face, raised mound of stones
2 ft.base 1.5 ft.high W.of cor.
No trees, pits impracticable,
48.00 Cross summit of ridge, course NE. and SW.
Descend,
60.00 Enter canon,
64.00 Cross dry bed of canon, 50 lks.wide, course SW.
Ascend,
68.50 Leave canon, cross summit of ridge, course NE. and SW.
Descend,
72.00 Cross dry wash 50 lks.wide, course SW.
Ascend,
75.00 Cross rifice, course NE. and SW.
Descend,
78.50 Cross dry wash 100 lks.wide, course W.
Ascend,
80.00 Set a lava stone 30x12x10 ins. in mound of stones for
cor.Secs.3,4,9,10, marked 5 grooves on S. and 3
grooves on E. edges, raised mound of stones 2 ft.
base 1.5 ft.high W.of cor.
No trees, pits impracticable,
Soil rocky, lava formation, fourth rate,
Land rough mountaineous, very little vegetation, prin-
cipally grease-wood brush,
Mountaineous land 80.00 chs.

December 4, 1905.

December 5, 1905.

At 8h.a.m.1.m.t.I set off 34°50'N.on the lat.arc and
22°17'S.on the decl.arc and determine a true meridian
with the solar at cor.Secs.5,6,31,32,
Thence I run,
N.0°3'W.between Secs. 31 and 32, over rough moun-

Chains	
	taineous country,
15.00	Ascend, Cross ridge, course NW. and SE.
25.75	Descend, Cross dry wash 30 lks.wide, course W.
31.00	Ascend, Cross ridge, course E. and W.
36.00	Descend, Cross dry wash 75 lks.wide, course W.
40.00	Ascend, Set a lava stone 20x12x12 ins. 16 ¹⁵ ins.in ground for 1/4 Sec.cor.marked 1/4 on W.face raised mound of stones 2 ft.base 1.5 ft.high W.of cor.
47.00	No trees, pits impracticable, Cross summit of ridge, course E. and W.
52.80	Descend,
60.75	Enter dry wash, course SW.
61.65	Cross telephone line, course NE. and SW,
65.25	Cross Mohave & Mill Town R.R., course NE. and SW.
68.50	Cross road, course NE. and SW.
80.00	Leave wash, course SW. Ascend, Set a lava stone 17x8x6 ins. 15 ¹⁴ ins.in ground for cor. Secs. 29,30,31,32, marked 1 groove on S. and 5 grooves on E.edges, raised mound of stones 2 ft. base 1.5 ft.high W.of cor. No trees, pits impracticable, Soil rocky, lava formation, fourth rate, Land mountaineous, very little vegetation, principally grease-wood brush, Mountaineous land 80.00 chs.

	Thence I run, East on a random line between Secs. 29 and 32,
40.00	Set temporary 1/4 Sec.cor,
79.94	Intersect Sec.line at 16 lks.N.of cor.Secs.28,29,32,33, Thence I run, N.89°53'W.on a true line between Secs. 29 and 32, over high ridge sloping to S. and W.
39.97	Set a lava stone 18x6x4 ins. 14 ¹⁴ ins.in ground for 1/4 Sec.cor. marked 1/4 on N.face, raised mound of stones 2 ft.base 1.5 ft.high N.of cor.
44.90	No trees, pits impracticable, Descend, Cross dry wash 150 lks.wide, course SW.
60.00	Ascend,
60.80	Cross telephone line course NE. and SW.
64.50	Cross telephone line, course NE. and SW.
64.90	Cross road, course NE. and SW.
79.94	Cross Mohave & Mill Town R.R., course NE. and SW. Cor.Secs. 29,30,31,32, Soil rocky, lava formation, fourth rate, Land rough mountaineous, very little vegetation, prin- cipally grease-wood brush, Mountaineous land 79.94 chs.

	Thence I run, West on a random line between Secs. 30 and 31,
40.00	Set temporary 1/4 Sec.cor,
79.45	Intersect Range line at S.10 lks.from cor.Secs.25,30,31, 36, Thence I run, S.89°56' E. on a true line between Secs. 30 and 31, over level land, covered with mesquite timber and dense undergrowth of Arrow-wood,
9.60	Cross fence, course NW. and SE.

Chains	
11.10	Cross road, course SE. and NW.
39.45	Set a mesquite post 4 ins.sq. 3 ft.long 2 ft.in ground for 1/4 Sec.cor. marked 1/4 S ³⁰ on N.face, <i>and 3: on S face</i>
	Whence a Mesquite 8 ins.diam.bears S.4°30'E. 267 lks. dist.marked 1/4 S.51 B.T.
	A Mesquite 12 ins.diam.bears N.30°45'E. 528 lks.dist. marked 1/4 S.30 B.T.
50.60	Whence, house bears North 1 ch.dist. Leave timber,
52.45	Cross road, course N.and S.
53.20	Whence pumping plant connected with Mill Town bears North 2 chs.dist.
67.20	Leave Valley, enter mountains, Ascend abruptly,
79.45	Cor.Secs.29,30,31,32, Soil 67.20 chs.sandy loam, first rate; 12.25 chs.gravelly and rocky, third rate, Land 67.20 chs. level, covered with heavy Mesquite timber and dense undergrowth; 12.25 chs.mountainous, Mountaineous land or land covered with heavy timber or dense undergrowth 79.45 chs.
	December 5, 1905.

	December 6, 1905.
	At 8h.a.m.l.m.t.I set off 34°51'N.on the lat.arc and 22°24'S.on the decl.arc and determine a true meridian with the solar at cor.Secs.29,30,31,32, Thence I run, N.0°3'W.between Secs. 29 and 30, over rough mountaineous country, Descend,
7.50	Cross dry wash, 200 lks.wide, course W. Ascend,
11.00	Cross summit of ridge, course E. and W. Descend,
14.50	Enter dry wash,
16.60	Cross dry bed of wash, 50 lks.wide, course SW. Ascend,
18.60	Leave wash, <i>ascend</i>
40.00	Set a lava stone 20x8x5 ins. ¹⁵ ins.in ground for 1/4 Sec.cor.marked 1/4 on W.face, raised mound of stones 2 ft.base 1.5 ft.high W.of cor. No trees, pits impracticable,
60.00	Cross summit of ridge, course E. and W. Descend,
78.00	Enter canon,
80.00	Set a lava stone 20x12x10 ins. ¹⁵ ins.in ground for cor Secs. 19,20,29,30, marked 2 grooves on S. and 5 grooves on E.edges, raised mound of stones 2 ft.base, 1.5 ft.high W.of cor. No trees, pits impracticable, Soil, rocky, lava formation, fourth rate, Land rough mountaineous, very little vegetation, principally grease-wood brush, Mountaineous land 80.00 chs.

	Thence I run, S.89°53'E.on a random line between Secs.20 and 29, 40.00 Set temporary 1/4 Sec.cor. 79.90 Intersect Sec.line at 3 lks.S.of cor.Secs. 20,21,28,29, Thence I run, N.89°54'W.on a true line between Secs.20 and 29 over rough mountaineous country, Descend,
11.25	Cross dry wash 40 lks.wide, course SW.

Chains

Ascend,
 16.00 Cross telephone line, course NE. and SW.
 16.50 Cross Mohave & Mill Town R.R., course NE. and SW.
 38.00 Summit of ridge, course NE. and SW., descend,
 39.95 Set a lava stone 18x5x4 ins. ~~24~~ ins. in ground for 1/4
 Sec. cor. marked 1/4 on N. face, raised mound of stones
 2 ft. base 1.5 ft. high N. of cor.
 No trees, pits impracticable.
 40.75 Cross dry gulch, 50 lks. wide, course NW.
 Ascend,
 53.00 Cross summit of ridge, course N. and S.
 Descend,
 60.25 Cross dry wash 50 lks. wide, course N.
 Ascend,
 65.00 Cross ridge, course N. and S.
 Descend,
 67.65 Enter wash, course SW.
 79.90 Cor. Secs. 19, 20, 29, 30,
 Soil rocky, lava formation, fourth rate,
 Land rough mountaineous, very little vegetation, prin-
 cipally grease-wood brush,
 Mountaineous land 79.90 chs.

 December 6.

At 12h.m.l.m.t. I set off $22^{\circ}28'S$ on the decl. arc and
 observed the sun on the meridian, the resulting lat.
 being $34^{\circ}51'N$., at cor. Secs. 19, 20, 29, 30,
 Thence I run,
 N. $89^{\circ}56'W$ on a random line between Secs. 19 and 30,
 40.00 Set temporary 1/4 Sec. cor.
 79.39 Intersect Range line at 3 lks. N. of cor. Secs. 19, 24, 25, 30
 Thence I run,
 S. $89^{\circ}57'E$ on a true line between Secs. 19 and 30, over
 level land, through heavy timber and dense under-
 growth,
 39.39 Set a mesquite post 4 ins. sq. 4 ft. long 3 ft. in ground
 for 1/4 Sec. cor. marked 1/4 S on N. face, and 30 on S face
 Whence a Mesquite 8 ins. diam, bears S. $19^{\circ}E$. 96 lks. dist.
 marked 1/4 S. 30 B.T.
 A Mesquite 10 ins. diam. bears N. $77^{\circ}30'E$. 20 lks. dist.
 marked 1/4 S. 19 B.T.
 48.90 Cross road, course N. and S.
 58.70 Leave timber, and valley, enter mountains,
 Ascend abruptly,
 70.00 Cross summit of ridge, course N. and S.
 Descend,
 77.30 Enter canon,
 78.50 Cross dry bed of canon 50 lks. wide, course SW.
 79.39 Cor. Secs. 19, 20, 29, 30,
 Soil 58.70 chs. sandy loam, first rate; 20.69 chs. grav-
 elly and rocky, third rate,
 Land 58.70 chs. level, covered with heavy Mesquite tim-
 ber and dense undergrowth of Arrow-wood; 20.69 chs.
 mountaineous,
 Mountaineous land and land covered with heavy timber
 and dense undergrowth 79.39 chs.

 December 6, 1905.

December 7, 1905.

At 8h.a.m.l.m.t. I set off $34^{\circ}51'N$ on the lat. arc and
 $22^{\circ}31'S$ on the decl. arc and determine a true meridian
 with the solar at cor. Secs. 19, 20, 29, 30,
 Thence I run,
 N. $0^{\circ}3'W$ between Secs. 19 and 20, over rough moun-
 taineous country,
 0.70 Cross dry bed of canon, 50 lks. wide, course SW.
 Ascend,

Chains	
35.00	Cross summit of ridge, course E. and W. Descend,
40.00	Set a lava stone 24x8x8 ins. 30 ¹⁸ ins.in ground for 1/4 Sec.cor.marked 1/4 on W.face, raised mound of stones 2 ft.base, 1.5 ft.high W.of cor. No trees, pits impracticable,
51.50	Cross dry wash 150 lks.wide, course W. Ascend,
54.00	Cross ridge, course E. and W. Descend,
56.75	Cross dry wash 50 lks.wide, course SW. Ascend,
70.00	Cross summit of ridge, course NE. and SW. Descend,
79.25	Cross dry wash 50 lks.wide, course W. Ascend,
80.00	Set a lava stone 18x7x6 ins. 14 ¹² ins.in ground for cor. Secs.17,18,19,20, marked 3 grooves on S. and 5 groove on E.edges, raised mound of stones 2 ft.base 1.5 ft. high W.of cor. No trees, pits impracticable, Soil rocky and gravelly, third and fourth rates, Land rough mountaineous, very little vegetation, prin- cipally grease-wood brush, Mountaineous land 80.00 chs.

	Thence I run, S.89°54'E. on a random line between Secs.17 and 20,
40.00	Set temporary 1/4 Sec.cor.
79.86	Intersect Sec.line at S.14 lks.from cor.Secs.16,17,20,21, Thence I run, West on a true line between Secs.17 and 20, Descend,
8.00	Cross dry wash 50 lks.wide, course SW. Ascend,
18.00	Cross summit of ridge, course NE. and SW. Descend,
28.25	Cross dry wash, 20 lks.wide, course NW. Ascend,
39.93	Summit of ridge, course NE. and SW.// Set a lava stone 16x10x8 ins. 12 ins.in ground for 1/4 Sec.cor.marked 1/4 on N.face,raised mound of stones 2 ft.base 1.5 ft.high N.of cor. No trees, pits impracticable, Descend,
75.00	Cross dry wash 50 lks.wide, course SW. Ascend,
79.86	The cor.Secs. 17,18,19,20, Soil rocky, lava formation, fourth rate, Land rough mountaineous, very little vegetation, prin- cipally grease-wood brush, Mountaineous land 79.86 chs.

	December 7. At 12h.m.l.m.t.I set off 22°35'S.on the decl.arc and observed the sun on the meridian at cor. Secs. 17,18,19,20, the resulting lat.being 34°52'N. Thence I run, N.89°57'W.on a random line between Secs.18 and 19,
58.60	Set temporary witness.cor.
79.12	Intersect Range line at 9 lks.S.of cor.Secs.13,18,19,24 Thence I run, S.89°53'E.on a true line between Secs.18 and 19, over level land, covered with heavy Mesquite timber and dense undergrowth,
22.00	Cross road, course SE. and NW.
32.12	Leave valley, ascend abruptly, enter mountains,

Subdivisions of T. 18 N., R. 21 W., continued.

Chains
 38.50 Cross summit of ridge, course N. and S.
 Descend abruptly,
 39.12 Point for 1/4 Sec.cor. falls on steep side of ridge in shaley ground unstitable for the establishment of a permamant corner.
 40.52 Foot of ridge, where I set a lava stone 16x10x8 ins. // ~~12~~ ins.in ground for witness 1/4 Sec.cor.marked W.C. 1/4 on N.face, raised mound of stones 2 ft.base 1.5 ft.high N.of cor.
 No trees, pits impracticable,
 Descend,
 45.00 Cross canon, 75 lks.wide, course SW.
 Ascend,
 60.00 Cross summit of ridge, course N. and S.
 76.62 Cross dry wash 50 lks.wide, course NW.
 79.12 The cor.Secs.17,18,19,20,
 Soil 32.12 chs.sandy loam first rate; 47 chs.rocky, fourth rate,
 Land level 32.12 chs. covered with heavy mesquite timber and dense undergrowth, 47 chs.mountaineous, very little vegetation, principally grease-wood brush,
 Mountaineous land or land covered with heavy timber or dense undergrowth 79.12 chs. ✓

 December 7, 1905.

✓ December 8, 1905.

At 8h.a.m.1.m.t. I set off 34°53'N.on the lat.arc and 22°38'S.on the decl.arc and determined a true meridian with the solar at cor.Secs. 8,9,16,17,

Thence I run,

N.89°59'E.on a random line between Secs. 9 and 16,

40.00 Set temporary 1/4 Sec.cor.

80.10 Intersect sec.line at 12 lks.N,of cor.Secs.9,10,15,,16.

Thence I ryn,

N.89°56'W. on a true line bween Secs. 9 and 16, over rough mountaineous country,

Descend,

18.50 Enter canon,

20.50 Cross dry bed of canon, 50 lks.wide, course SW.

Ascend,

22.50 Leave canon, *ascend*

40.05 Set a lava stone 18x10x8 ins. ¹² ~~14~~ ins.in ground for 1/4 Sec.cor. marked 1/4 on N.face, raised mound of stones 2 ft.base 1.5 ft.high N.of cor.

No trees, pits impracticable.

45.00 Cross summit of ridge, course NE. and SW.

Descend,

70.00 Cross dry wash 40 lks.wide, course SW.

Ascend,

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

Soil rocky, lava formation, fourth rate,

Land rough mountaineous, very little vegetation, principally grease-wood brush,

Mountaineous land 80.10 chs.

 Thence I run,

N.0°2'W. between Secs.8 and 9, over rough mountaineous country,

Ascend,

8.00 Cross summit of ridge, course E. and W.

Descend,

15.50 Enter canon, descend abruptly,

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

Ascend,

21.00 Leave canon, *ascend*.

25.00 Cross ridge, course E. and W.

Descend,

Chains

29.00 Cross dry wash 50 lks.wide, course SW.
Ascend,

34.00 Cross ridge, course NE. and SW.
Descend,

37.75 Cross dry wash, 30 lks.wide, course SW.
Ascend,

40.00 Set a lava stone 18x10x8 ins. ¹²14 ins.in ground for 1/4
Sec.cor.marked 1/4 on W.face, raised mound of stones
2 ft.base 1.5 ft.high W.of cor.
No trees, pits impracticable,

41.00 Cross ridge, course NE. and SW.
Descend,

44.00 Enter canon,
Descend abruptly,

47.00 Cross dry bed of canon, 50 lks.wide, course SW.
Ascend,

51.00 Leave canon, *ascend*

59.00 Cross summit of ridge, course NE. and SW.
Descend,

76.00 Cross dry wash 100 lks.wide, course W.
Ascend,

80.00 Set a lava stone 24x10x6 ins. 18 ins.in ground for cor.
Secs.4,5,8,9, marked 4 grooves on E. and 5 grooves on
S. edges, raised mound of stones 2 ft.base 1.5 ft.
high W.of cor.
No trees, pits impracticable,
Soil, rocky, lava formation, fourth rate,
Land very rough mountaineous, cut up be deep canons and
high narrow ridges,
Mountaineous land 80.00 chs.

Thence I run,
S.89°56'E. on a random line between Secs. 4 and 9,
over rough mountaineous country,

40.00 Set temporary 1/4 Sec.cor.

80.08 Intersect Sec.line at N. 8 lks.from cor.Secs.3,4,9,10,
Thence I run,
N.89°55'W. on a true line between Secs. 4 and 9,
Descend,

0.60 Cross dry wash 60 lks.wide, course SW.
Ascend,

4.00 Cross summit of ridge, course NE. and SW.
Descend,

7.60 Cross dry wash, 75 lks.wide, course SW.
Ascend,

23.00 Cross summit of ridge, course NE. and SW.
Descend,

30.60 Cross dry wash 100 lks.wide, course SW.
Ascend,

40.04 Set a lava stone 18x10x8 ins.in mound of stone, for 1/4
Sec.cor.marked 1/4 on N.face, raised mound of stones
2 ft.base 1.5 ft.high N.of cor.
No trees, pits impracticable,
Descend,

50.50 Cross dry wash 30 lks.wide, course SW.
Ascend,

53.50 Cross summit of ridge, course NE. and SW.
Descend,

54.50 Cross dry wash 30 lks.wide, course SW.
Ascend,

57.50 Cross summit of ridge, course NE. and SW.
Descend,

63.00 Cross dry wash, 75 lks.wide, course SW.
Ascend,

65.00 Cross ridge, course NE. and SW.
Descend,

67.00 Cross dry wash 50 lks.wide, course SW.
Ascend,

Subdivisions of T. 18 N., R. 21 W., continued.

Chains	
80.08	Cor.Secs. 4,5,8,9, Soil rocky, lava formation, fourth rate, Land, very rough mountaineous,very little vegetation, principally grease-wood brush, Mountaineous land 80.08 chs.
	----- December 8, 1905. -----
	December 9, 1905. At 8h.a.m.1.m.t.I set off 34°52'N.on the lat.arc and 22°44'S.on the decl.arc and determine a true meridian with the solar at cor.Secs.17,18,19,20, Thence I run, N.0°3'W.between Secs. 17 and 18, over rough moun- taineous country, Ascend, 6.00 Cross ridge, course NE. and SW. Descend, 12.50 Cross dry wash, 25 lks.wide, course SW. Ascend, 22.00 Cross ridge, course E. and W. Descend, 32.50 Cross dry wash 200 lks.wide, course W. Ascend, 33.50 Cross ridge, course E. an W. Descend, 34.75 Cross dry wash 75 lks.wide, course W. Ascend, 40.00 Set a lava stone 20x10x8 ins. ¹⁵ ins.in ground for 1/4 Sec.cor.marked 1/4 on W.face, raised mound of stones 2 ft.base 1.5 ft.high W.of cor. No trees, pits impracticable, Descend, 44.50 Cross dry wash 50 lks.wide, course W. Ascend, 55.00 Cross ridge, course E. and W. Descend, 64.50 Cross rdy wash 150 lks.wide, course W. Ascend, 69.00 Cross ridge, course E. and W. Descend, 72.00 Enter canon, descend abruptly, 74.00 Cross dry bed of canon, 50 lks.wide, course SW. Ascend, 76.75 Leave canon, 80.00 Set a lava stone 24x12x12 ins. ¹⁸ ins.in ground for cor. Secs.7,8,17,18, marked 4 grooves on S. and 5 grooves on E. edges, raised mound of stones 2 ft.base 1.5 ft high W.of cor. No trees, pits impracticable, Soil gravelly and rocky, third and fourth rates, Land very rough mountaineous, very little vegetation, principally grease-wood brush, Mountaineous land 80.00 chs.

	Thence I run, East on a random line between Secs. 8 and 17, 40.00 Set temporary 1/4 Sec.cor. 79.92 Intersect Sec.line at 20 lks.N. of cor.Secs.8,9,16,17, Thence I run, N.89°51'W.on a true line between Secs.8 and 17, Descend gently along summit of high ridge, 39.96 Set a lava stone 18x10x6 ins. ¹⁴ ins.in ground for 1/4 Sec.cor.marked 1/4 on N.face, raised mound of stones 2 ft.base 1.5 ft.high N.of cor. No trees, pits impracticable, 56.00 Enter canon, descend abruptly, 63.00 Cross dry bed of canon, 50 lks.wide, course SW. Ascend,

Chains

70.00 Leave canon,
79.92 The cor. Secs. 7, 8, 17, 18,
Soil rocky, lava formation, fourth rate,
Land 56 chs. level, 23.92 chs. broken and rough, moun-
taneous, very little vegetation, principally grease-
wood brush,
Mountaneous land 23.92 chs.

Thence I run,
N. 89° 53' W. on a random line between Secs. 7 and 18,
40.00 Set temporary 1/4 Sec. cor.
79.00 Intersect Range line at cor. Secs. 7, 12, 13 and 18,
Thence I run,
S. 89° 53' E. on a true line between Secs. 7 and 18,
Ascend,
7.00 Cross summit of ridge, course NE. and SW.
Descend,
13.00 Cross canon, 200 lks. wide, course SW.
Ascend,
17.50 Cross summit of ridge, course NE. and SW.
Descend,
22.50 Cross canon 30 lks. wide, course SW.
Ascend,
39.00 Set a lava stone 16x8x6 ins. ¹² ins. in ground for 1/4
Sec. cor. marked 1/4 on N. face, raised mound of stones
2 ft. base 1.5 ft. high N. of cor.
No trees, pits impracticable,
Ascend gently over high mesa country,
79.00 Cor. Secs. 7, 8, 17, 18,
Soil gravelly and rocky, second and fourth rates,
Land level 40 chs., rough mountaneous 39 chs., very
little vegetation principally grease-wood brush,
Mountaneous land 39.00 chs.

December 9, 1905.

December 10, 1905.

At 8h. a.m. l.m.t. I set off 34° 53' N. on the lat. arc
and 22° 50' S. on the decl. arc and determine a true meri-
dian with the solar at cor. Secs. 7, 8, 17, 18,

Thence I run,

N. 0° 3' W. between Secs. 7 and 8, over level mesa coun-
try sloping to S. and W.

50.00 Descend,
35.50 Cross dry wash 50 lks. wide, course NW.
Ascend,
36.50 Cross summit of ridge, course E. and W.
Descend,
37.25 Cross dry wash 30 lks. wide, course W.
Ascend,
40.00 Set a lava stone 16x8x7 ins. ¹² ins. in ground for 1/4 Sec
cor. marked 1/4 on W. face, raised mound of stones 2 ft.
base 1.5 ft. high W. of cor.
No trees, pits impracticable,
44.00 Cross summit of ridge, course E. and W.
Descend,
48.25 Cross dry wash 40 lks. wide, course SW.
Ascend,
50.25 Cross summit of ridge, course NE. and SW.
Descend,
53.00 Cross dry wash 20 lks. wide, course W.
Ascend,
58.50 Cross ridge, course E. and W.
Descend,
62.50 Cross dry wash 100 lks. wide, course W.
Ascend,
70.00 Cross summit of ridge, course E. and W.
Descend,

Chains	
77.50	Cross dry wash 60 lks.wide, course W. Ascend,
80.00	Set a lava stone 16x10x6 ins. 12 ¹¹ ins.in ground for cor. Secs.5,6,7,8, marked 5 grooves on S. and E. edges, raised mound of stones 2 ft.base, 1.5 ft.high W.of cor No trees, pits impracticable, Soil rocky, fourth rate, Land 30 chs.level mesa, 50 chs.rough mountaineous, very little vegetation, principally grease-wood brush, Mountaineous land 50.00 chs.

	Thence I run, S.89°51'E. on a random line between Secs. 5 and 8, over rough, mountaineous country,
40.00	Set temporary 1/4 Sec.cor.
79.98	Intersect Sec.line at 3 lks.S.of cor.Secs. 4,5,8,9, Thence I run, N.89°52'W. on a true line between Secs. 5 and 8, Ascend,
3.00	Cross summit of ridge, course NE. and SW. Descend,
8.00	Cross dry wash 100 lks.wide, course SW. Ascend,
14.00	Cross ridge, course NE. and SW. Descend,
20.00	Cross dry wash 20 lks.wide, course SW. Ascend,
39.99	Set a lava stone 18x10x8 ins. 14 ¹² ins.in ground for 1/4 sec.cor.marked 1/4 on N.face, raised mound of stones 2 ft.base, 1.5 ft.high N.of cor. No trees, pits impracticable,
41.00	Cross summit of ridge, course NE. and SW. Descend,
63.00	Cross dry wash 100 lks.wide, course SW. Ascend,
79.98	Cor.Secs.5,6,7,8, Soil rocky, fourth rate, Land rough mountaineous, very little vegetation prin- cipally grease-wood brush, Mountaineous land 79.98 chs.

	Thence I run, N.89°53'W.on a random line between Secs. 6 and 7
40.00	Set temporary 1/4 Sec.cor.
78.92	Intersect Range line at cor.Secs.1,6,7,12, Thence I run, S.89°53'E.on a true line between Secs.6 and 7, Ascend gently over mesa country sloping to S. and W.
38.92	Set a lava stone 16x10x8 ins. 12 ¹² ins.in ground for 1/4 Sec.cor.marked 1/4 on N.face, raised mound of stones 2 ft.base 1.5 ft.high N.of cor. No trees, pits impracticable,
40.00	Leave mesa country, ascend abruptly into hills,
48.00	Summit of hills, course NE. and SW. Descend,
52.00	Cross gulch 200 lks.wide, course SW. Ascend,
70.00	Summit of ridge, course NE. and SW. Descend,
78.92	Cor.Secs. 5,6,7,8, Soil gravelly and sandy, second rate, Land mostly level, covered with scanty growth of grease- wood brush, very little other vegetation,

December 10, 1905.

Chains	December 11, 1905. At 8h.a.m.1.m.t. I set off 34°54'N.on the lat.arc and 22°55'S.on the decl.arc and determine a true meridian with the solar at cor.Secs.3,4,9,10, Thence I run, N.0°2'W.on a random line between Secs. 3 and 4, Set temporary 1/4 Sec.cor. Intersect Tp.line at 5 lks.E.of cor.Secs.3,4,33,34, Thence I run, S.0°4'E.on a true line between Secs.3 and 4, over level country, Cross Gold Roads wagon road, course NE. and SW. Set a lava stone 16x10x10 ins. 12 ins.in ground for 1/4 Sec.cor.marked 1/4 on W.face, raised mound of stones 2 ft.base, 1.5 ft.high W.of cor. No trees, pits impracticable, Ascend, Cross summit of ridge, course NE. and SW. Descend, Cross dry wash 50 lks.wide, course SW. Ascend, Cross ridge, course NE. and SW. Descend, Cross dry wash 30 lks.wide, course SW. Ascend, Cross summit of ridge, course NE. and SW. Descend, Cross dry wash, 50 lks.wide, course SW. Ascend, Cor.Secs. 3,4,9,10, Soil rocky, fourth rate, Land 50 chs.level, 29.89 chs.mountaineous, covered with scant growth grease-wood brush, very little other vegetation. Mountaineous land 29.89 chs.
40.00	December 11. At 10h. 30m.a.m.1.m.t. I set off 34°54' N.on the lat.arc and 22°58'S.on the decl.arc and determine a true meridian with the solar at cor.Secs. 4,5,8,9, Thence I run, N.0°2'W. on a random line between Secs.4 and 5, Set temporary 1/4 Sec.cor. Intersect Tp.line at 2 lks.W.of cor.Secs.4,5,32,33, At 12h.m.1.m.t.I set off 22°59'S.on the decl.arc and observed the sun on the meridian at cor.Secs.4,5,32,33 the resulting lat.being 34°55'N. Thence I run, S.0°1'E.on a true line between Secs.4 and 5, over rough mountaineous country, Descend, Cross dry wash 30 lks.wide, course SW. Ascend, Cross ridge, course NE. and SW. Descend, Cross dry wash 50 lks.wide, course SW. Ascend, Cross ridge, course NE. and SW. Descend, Cross dry wash 100 lks.wide, course SW. Ascend, Cross ridge, course NE. and SW. Descend, Cross dry wash 30 lks.wide, course SW. Ascend, Set a lava stone 24x15x8 ins. 20 ins.in ground for 1/4 Sec.cor.marked 1/4 on W.face, raised mound of stones 2 ft.base 1.5 ft.high W.of cor. No trees, pits impracticable.
79.89	
15.40	
39.89	
50.00	
55.40	
59.00	
62.90	
71.00	
78.64	
79.89	
40.00	
79.85	
4.60	
7.50	
10.55	
17.85	
23.35	
30.35	
36.85	
39.85	

Chains	
41.10	Cross Gold Roads wagon road, course NE. and SW.
46.50	Cross summit of ridge, course NE. and SW. Descend,
50.85	Cross dry wash 50 lks.wide, course SW. Ascend,
58.00	Cross summit of ridge, course NE. and SW. Descend,
65.10	Cross dry wash 100 lks.wide, course SW. Ascend,
66.10	Cross ridge, course NE. and SW. Descend,
67.00	Cross dry wash 50 lks.wide, course SW. Ascend,
79.85	Cor.Secs.4,5,8,9, Soil rocky, fourth rate, Land rough mountaineous, very little vegetation, prin- cipally grease-wood brush, Mountaineous land 79.85 chs.

	December 11. At 2h.30m.p.m.1.m.t. I set off $34^{\circ}54'N.$ on the lat.arc and $22^{\circ}58'W.$ on the decl.arc and deter- mine a true meridian with the solar at cor.Secs.5,6, 7,8, Thence I run, N. $0^{\circ}3'W.$ on a random line between Secs.5 and 6, over rough mountaineous country, 40.00 Set temporary $1/4$ Sec.cor. 79.83 Intersect Tp.line at 14 lks.E.of cor.Secs.5,6,31,32, Thence I run, S. $0^{\circ}9'E.$ on a true line between Secs.5 and 6, Descend, 5.33 Cross dry wash 20 lks.wide, course SW. Ascend, 11.40 Cross summit of ridge, course NE. and SW. Descend, 17.00 Cross dry gulch 30 lks.wide, course SW. Ascend, 22.00 Cross ridge, course NE. and SW. Descend, 26.83 Cross dry wash 25 lks.wide, course SW. Ascend, 29.00 Cross ridge, course NE. and SW. Descend, 36.30 Cross dry wash 60 lks.wide, course SW. Ascend, 39.83 Set a lava stone $18 \times 10 \times 8$ ins. ¹² 14 ins.in ground for $1/4$ Sec.cor.marked $1/4$ on W.face, raised mound of stones 2 ft.base 1.5 ft.high W.of cor. No trees, pits impracticable. Descend, 42.30 Cross dry wash 30 lks.wide, course SW. Ascend, 45.60 Cross ridge, course NE. and SW. Descend, 45.00 Enter canon, 46.25 Cross dry bed of canon 30 lks.wide, course SW. Ascend, 47.30 Leave canon, <i>ascend</i> 48.85 Cross ridge, course NE. and SW. Descend, 50.30 Cross dry wash, 20 lks.wide, course SW. Ascend, 52.33 Cross Gold Roads wagon road, course NE. and SW. 53.50 Cross summit of ridge, course NE. and SW. Descend, 56.10 Cross dry wash 25 lks.wide, course SW. Ascend, 62.00 Cross ridge, course NE. and SW.

Chains

67.35 Descend,
Cross dry wash 60 lks. wide, course W.
Ascend,
79.83 Cor. Secs. 5, 6, 7, 8,
Soil rocky, fourth rate,
Land very rough mountainous cut up by deep gulches and
high narrow ridges, covered with scant growth of
grease-wood brush, very little other vegetation.
Mountainous land 79.83 chs.

December 11, 1905.

GENERAL DESCRIPTION.

Owing to the fact that the North East quarter of this Township is very rough and mountainous and of little value, I did not subdivide it.
The Township contains very little land of any value, Sections 18, 19, 30 and 31 contain some good valley land, soil being a sandy loam, first rate.
Sections 6 and 7 contain some level mesa land, soil sandy loam, first rate.
There is no timber or water in this Township except in Sections 18, 19, 30 and 31.
The timber in these sections is Cottonwood, Willow and Mesquite, with dense undergrowth of Arrow-wood.
There is one white settler on South boundary of Section 31, three settlers in Section 30; one pumping plant in Section 30, one quartz mill and four houses in Section 21 in charge of one watchman.
There are no Indians in this Township.

John J. Fisher
U.S. Deputy Surveyor.

Chains.

Thence I run from M. C. bet. secs. 6 and 31.
 With meanders in sec. 31, T. 18 N. R. 21 W., through
 heavy mesquite and willow timber and dense under-
 growth.

N. 32° W. 1.87 chs. To meander cor. on range
 line bet. secs. 31 and 36.

Soil, sandy loam, first rate.
 Land, level, about 2 ft. above lake, covered with
 heavy mesquite and willow timber 1.87 chs.

 Thence I run from M. C. bet. secs. 31 and 36.
 With meanders in sec. 31, T. 18 N. R. 21 W.,
 through heavy mesquite timber and dense under-
 growth. Bank about 2 ft. high.

S. 46 3/4° E. 7.80 chs.
 S. 45° E. 3.70 chs.
 S. 57 1/4° E. 3.20 chs. Bank about 6 ft. high.
 S. 23 1/2° E. 4.50 chs.
 S. 50 3/4° E. 5.40 chs.
 S. 22° 8' E. 3.03 chs. To Meander cor. on Tp.
 line bet. secs. 6 and 31,
 the place of beginning.

Soil, sandy loam, first rate.
 Land, level, covered with heavy mesquite timber
 and dense undergrowth of arrow-wood, 27.43 chs.
 November 15th 1905.

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 Lines T 18 N R 21 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. Rickells , Axman.

Irving 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 Lines T. 18 N, R 21 W

..... of the *Gila and*

Salt River

meridian,

Levitz

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. Rickells

....., Axman.

Irving V. Anger

....., Flagman.

Subscribed and sworn to before me this *14th*

day of *January*, 190*6*



J. J. Fisher

Notary Public

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, John J. Fisher United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Frank S. Sigall United States Surveyor General for Arizona, bearing date of the 14th day of March, 1895, 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 lines T. 18 N. R. 21 W

Salt River meridian, in the Territory of Arizona, of the Gila and Salt River meridian, in the Territory of Arizona, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Arizona and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

John J. Fisher
United States Deputy Surveyor.

Subscribed by said John J. Fisher, and sworn to before me }
this 1st day of February, 1899 1906

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



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona June 15 1899 1906

The foregoing field notes of the survey of the subdivisional lines of T. 18 N., R. 21 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 24 1906, 1899, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank S. Sigall
United States Surveyor General.

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

United States Surveyor General.