

Book "B"

SUBDIVISIONS.
T. 19, N., R. 6, E.
W. O. SECOR.

BOOK 312

No - 312

BOOK 312

4-671

FIELD NOTES
GENERAL LAND OFFICE.

312

No - 312

filed

Embroidery 20/03

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Dates for 1904. RSE

Copied C.S. 2/9/04

BOOK 312

PRELIMINARY OATHS OF ASSISTANTS.

BOOK 312

We, *Joel Anderson*
and *A. G. Johnson*

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true length of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the

Subdivisional and exterior lines of townships 20 N. R. 4 E.; 19 N. R. 2, 3, and 6 E.; 18 N. R. 6 E.; and 17 N. R. 5 and 6 E.

BOOK 312

of the Gila and Salt River Base and Meridian, in the Territory of Arizona.

Joel Anderson Chainman.
A. G. Johnson Chainman.
..... Chainman.
..... Chainman.

Subscribed and sworn to before me this *20th* day of *August*, 190*2*.

Geo. Johnston

Notary Public.

[SEAL.]

We, *J. M. Lockwood, C. J. Schwarty, A. Hubert Harpham and Norman Cote*

do solemnly swear that we will well and truly perform the duties of flagman and axmen, in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of the

Exterior and Subdivisional lines of townships 20 N. R. 4 E.; 19 N. R. 2, 3, and 6 E.; 18 N. R. 6 E.; and 17 N. R. 5 and 6 E.

BOOK 312

of the Gila and Salt River Base and Meridian, in the Territory of Arizona.

<i>J. M. Lockwood</i>	Chairman
<i>C. J. Schwarty</i>	Flagman.
<i>Hubert Harpham</i>	Axman.
<i>Norman Cote</i>	Axman.

Subscribed and sworn to before me this *20th* day

of *August*, 190*2*.

Geo. Johnston

Notary Public.



19-6

BOOK 312

B

No-312

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Field Notes
of the survey of the
Subdivision Lines
of
Township N^o 19 N., R. N^o 6 E.,
of the
Gila^{and} Salt River Bas^{and} Meridianⁱⁿ
in the
Territory of Arizona,
as surveyed by
W. Oscar Sear,
U.S. Deputy Surveyor,

Under his contract N^o 102,
Dated June 30, 1902.

Survey commenced Sept. 2, 1902
Survey completed Sept. 16, 1902

— Assistants —

- Joel Anderson Chairman.
- A. G. Johnson "
- J. M. Lockwood Moundman
- C. J. Schwartz Assman
- Hubert Harpham "
- Norman Cooks Flagman.

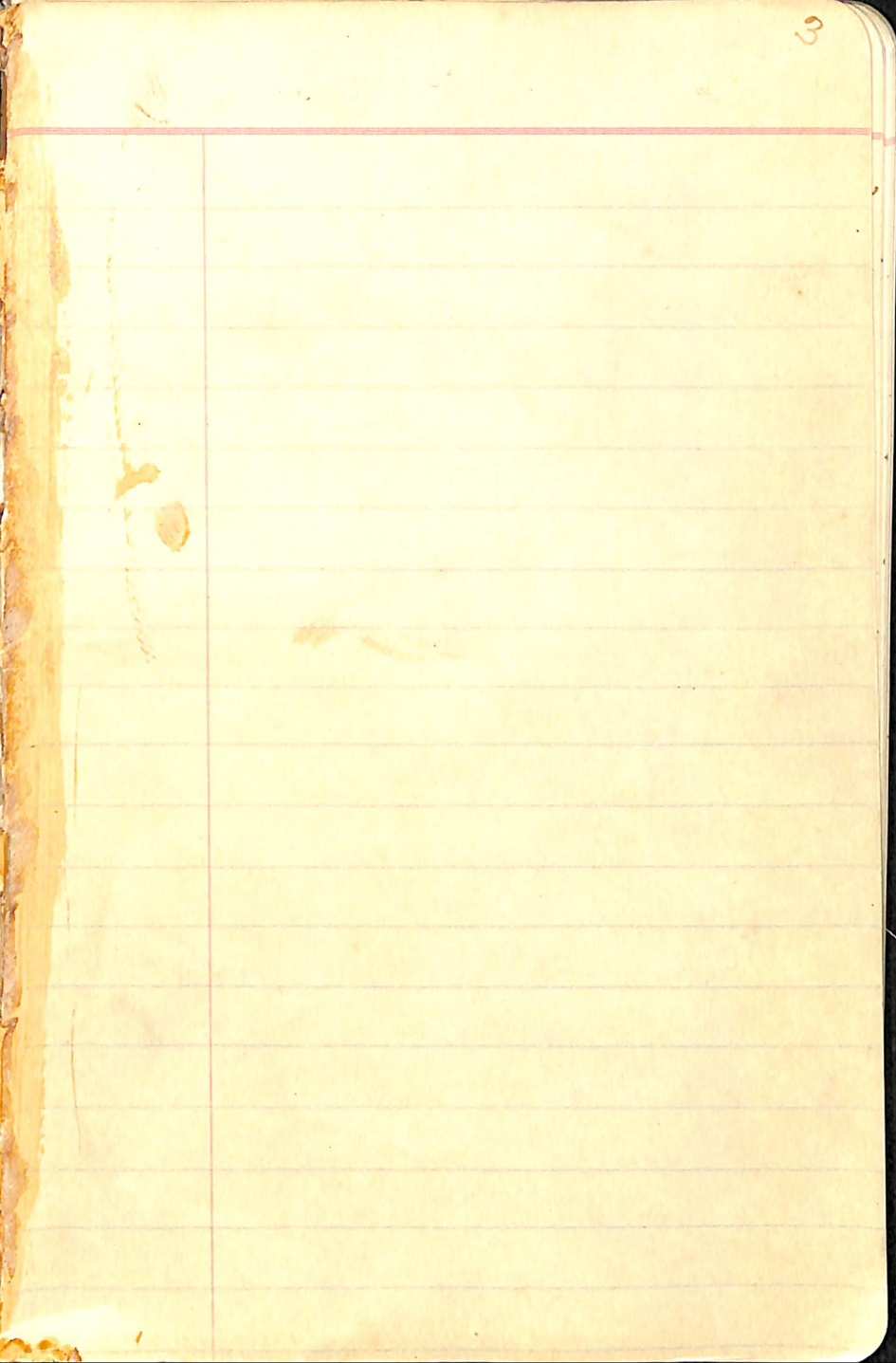
Township *19 N* Range *6 E*

BOOK 312 County,

NORTH

	6	5	4	3	2	1	
			<i>58</i>				
	7	8	9	10	11	12	
			<i>41</i>				
	18	17	16	15	14	13	
WEST			<i>33</i>				EAST
	19	20	21	22	23	24	
			<i>46</i>				
	<i>18</i>	<i>20</i>	<i>53</i>				
	30	29	28	27	26	25	
	<i>10</i>	<i>12</i>					
	31	32	33	34	35	36	
			<i>28</i>				
			<i>30</i>				

SOUTH



4 Sub. Lines T. 19. N. R. 6 E.

Survey commenced Sept. 2, 1902, and executed with a Buff and Berger engineer's transit with solar attachment.

I carefully examine the adjustments of my transit and find the same to be correct; 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:

Near the cor. of secs. 8, 9, 16 & 17 T. 19 N. R. 6 E., I set off $8^{\circ} 04' N.$ on the decl. arc; and, at noon observe the sun on the meridian; the resulting lat. is $35^{\circ} 03' N.$

At 3^h p. m. l. m. t. I set off $8^{\circ}03'$ N. on the decl. arc; $35^{\circ}03'$ N. on the lat. arc and determining a true meridian with the solar and mark a point thereof, on a stone firmly set in the ground, 5 chs. N. of my station.

Allowing my instrument to remain at same point I observe Polaris at eastern elongation, in accordance with the Manual of Instructions, and mark a point in the line thus determined, on a stake driven in the ground, 5 chs. N. of my station. 8h 43 m. p. m.
Time of observation.

Sept. 2, 1902.

Sept. 3, 1902. At 7 a. m. I lay off the azimuth of Polaris, $1^{\circ}29'$ to the west, and mark the true

6 Sub. Lins J. 19 N. R. to E.

BOOK 312

meridian thus determined, by cutting a groove in the stone set Sept. 2, on which the true meridian falls one half inch west of the mark determined by the solar.

At 8^h a.m. l. m. t., I set off $7^{\circ}48'N.$ on the decl. arc, $35^{\circ}03'N.$ on the lat. 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 0.4 ins. east of the true meridian established by the Polaris observation.

I therefore conclude that the adjustments of my instrument are satisfactory.

The magnetic bearing of the

true meridian, at 8^h a. m. is N. $13^{\circ}55'$ W., the angle thus determined, reduced by the table, page 100, gives the mean mag. decl. $13^{\circ}52'$ E.

From the cor. of secs. 31 and 32 on the S. bdy., which is a limestone $12 \times 12 \times 5$ ins. above ground, marked and witnessed as described by the Surveyor General.

I run N. $0^{\circ}03'$ W., between secs. 31 and 32.

Over mountainous land, though dense pine timber and oak brush.
40.00 Set a lime stone $18 \times 14 \times 5$ ins. in a md. of stone for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face, from which a spruce

- 18 ins. diam. bears N. 20° W.
 6 lks dist. marked $\frac{1}{4}$ S. 31 B. T.
 A spruce 40 ins. diam. bears
 S. $56^{\circ} 30' E$. 34 lks. dist. marked
 $\frac{1}{4}$ S. 32 B. T.
- 65.30. Descend to gulch.
- 68.25 Bottom of gulch, course 56°
 E. ascend.
- 75.00 Top of ascent.
- 80.00 Set a lime stone $16 \times 10 \times 6$ ins.
 in a mid. of stone for cor.
 of secs. 29, 30, 31 and 32,
 marked with one notch on
 S. and 5 notches on E. edges.
 from which a pine 36 ins.
 diam. bears N. $39^{\circ} 30' W$.
 dist. 116 lks. marked T. 19 N.
 B. 6 E. S. 30 B. T.
 A pine 16 ins. diam bears

N. 33° E. dist. 92 lks marked

T. 19 N. R. 6 E. S. 29 B. T.

A pine 32 ins. diam. bears

S. 73° E 100 lks. dist. marked

T. 19 N. R. 6 E, S 32 B. T.

A pine 30 ins. diam. bears

S. 52° W. dist. 148 lks. marked

T. 19 N. R. 6 E. S. 31 B. T.

Land mountainous, 80 chs.

Dense pine 80 chs. Soil

3rd rate.

West on a random line bet.
secs. 30 and 31

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.07 Intersect W. b'dy. of Twp. 20
lks. N. of cor. of secs. 25, 30, 31
and 36, thence I run

N. $89^{\circ}51'E$. on a true line
bet. secs. 30 and 31 over
mountainous land, through
dense pines.

40.035 Set a lime stone $16 \times 12 \times 7$ ins.
in a md. of stone for $\frac{1}{4}$ sec.
cor. marked $\frac{1}{4}$ on N. face
from which

A pine 15 ins. diam. bears
S. $53^{\circ}30'W$. dist. 43 lks. marked
 $\frac{1}{4}$ S. 31 B. T.

An oak 8 ins diam. bears N. $26^{\circ}E$.
dist. 45 lks marked $\frac{1}{4}$ S. 30 B. T.

- 60.00 Descend to gulch.
- 64.85 Bottom of gulch 150 ft. deep,
course S. 40° E. ascend
- 67.50 Top of ascent.
- 80.07 Cor. of secs. 29, 30, 31 and 32.
Land mountainous 80.07 chs.
Dense pines 80.07 chs. Soil
3rd rate.

Sept. 3. 1902

Sept. 4. At 8^h a. m. l. m. t.
 I set off $35^{\circ} 00'$ N. on the
 lat. arc, $7^{\circ} 23'$ N. on the decl.
 arc, and determine a true
 meridian with the solar
 at the cor. of secs. 29, 30, 31
 and 32. Thence I run
 East on a true line bet.
 secs. 29 and 32.

Over mountainous land,
 through dense pine timber
 and oak brush.

- 27.40 Edge of precipitous bluff bears
 N.E. & S. W. descend diagonally.
- 36.00 Foot of bluff. Flat sandstone bench.
- 36.92 Edge of precipitous bluff. As
 point for $\frac{1}{4}$ sec. cor. will
 come in unsafe place I
 set a S.S. 30 X 16 X 8 ins. in a

end. of stone for witness cor.
to the $\frac{1}{4}$ sec. cor. marked W. C.
 $\frac{1}{4}$ on N. face, from which
A pine 14 ins. diam. bears
N. 45° W. 36 lks. dist. marked
W. C. $\frac{1}{4}$ S. 29 B. T.

A juniper 6 ins. diam. bears
S. 35° W. 30 lks. dist. marked
W. C. $\frac{1}{4}$ S 32 B. T.

Descend abruptly.

47.00 Bottom of cãnon 1000 ft deep,
course N. E., ascend abruptly.

62.30 Top of point, bears S. W. & S. E.
As it is impossible to proceed
further on this line, I set
a S. S. 18 X 16 X 12 ins. in a
end. of stone for witness
cor. to cor. of secs. 28, 29,
32 & 33, marked W. C. with

one notch on S and 4 notches
on E. edges, from which

An oak 8 ins diam. bears
N. 70° W. 35 lks. dist. marked
T. 19 N. R. 6 E. W. 6. S 29 B. T.

A spruce 30 ins. diam. bears
S. 12° W. 65 lks. dist. marked
T. 19 N. R. 6 E. W. 6. S 32 B. T.

No other trees in dist.

Raised a md. of stone 2 ft. base $1\frac{1}{2}$
ft high W. of cor. Pile impracticable

N. $0^{\circ}03'W$. bet. secs. 29 & 30

Ascending through dense pines.

12.85 Edge of bluff, bears E & W.

Descend abruptly.

17.50 Bottom of gulch 200 ft. deep,
course E. for 5 chs. then N.E.

Ascend.

19.40 Top of ascent, descend to gulch

21.25 Bottom of gulch 40 ft. deep,
course N.E., ascend.

24.00 Top of bluff bears N.E. & S.W.

40.00 Set a lime stone $16 \times 10 \times 6$ ins.
in a md. of stone for $\frac{1}{4}$ sec.
cor., marked $\frac{1}{4}$ on W. face,
from which

A pine 38 ins. diam. bears
N. $78^{\circ}30'W$. 92 lks. dist.
marked $\frac{1}{4}$ S, 30 B.T.

An oak 10 ins. diam. bears

S. $52^{\circ}30'$ E. 54 lks dist. marked
 $\frac{1}{4}$ S. 29 B. T.

Descend to gulch.

44.25 Bottom of gulch, course S.
 70° E. ascend.

49.00 Top of bluff bears N. 70° W. & E.

62.00 Edge of bluff bears N. W. & S. E.
 descend abruptly.

65.00 Bottom of cañon, course S. E.
 ascend

67.65 Top of bluff, bears N. W. & S. E.

76.35 Edge of bluff, bears N. E. & S. W.
 descend abruptly

80.00 Set a S.S. $20 \times 16 \times 6$ ins. in a
 md. of stone for cor. of secs.
 19, 20, 29 and 30, marked with
 2 notches on S and 5 notches on
 E. edges, from which
 A spruce 7 ins diam. bears

N. 85° W. dist 50 lks. marked
T. 19 N. R. 6 E. S. 19 B. T.

An oak 5 ins. diam. bears
N. 75° E. dist. 48 lks. marked
T. 19 N. R. 6 E. S. 20 B. T.

Land mountainous 80 chs.
Dense pines and oaks 80 chs.
Soil 4th rate.

Raised a mound of stone 2 ft
base $1\frac{1}{2}$ ft high N. of cen. Pits
impracticable. No other trees in
limits

S. $89^{\circ}51'W.$ on a random line bet. secs. 19 and 30.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.85 Intersect W. b'dy, Tp. 3 lks. N. of cor. of secs. 19, 24, 25 and 30. Thence I run

N. $89^{\circ}50'E.$ on a true line bet. secs 19 and 30

Over mountainous land, through dense pines and oaks.

39.925 Set a lime stone $18 \times 14 \times 6$ ins. in a md. of stone for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face, from which

An oak 8 ins. diam. bears N. $77^{\circ}E.$ dist. 15 lks marked $\frac{1}{4}$ S. 19. B. T.

An oak 7 ins diam. bears S. $20^{\circ}W.$ dist. 46 chs. marked

$\frac{1}{4}$ S. 30 N. T.

- 70.00 Descend to gulch
- 75.30 Bottom of gulch course N.E.
ascend.
- 79.85 The cor. of secs. 19, 20, 29
and 30.
- Land mountainous 79.85 $\frac{1}{2}$ $\frac{1}{2}$
- Dense pines and oaks 79.85 $\frac{1}{2}$ $\frac{1}{2}$
- Soil 4th rate.

E. on a true line bet. secs 20 & 29
Ascending abruptly through
dense oak brush.

3.50 Top of pt. descend steep
slope diagonally.

7.10 Top of spur bears N. E.,
descend abruptly into cove.

13.20 Bottom of cove, ascend pre-
cipitously.

19.00 Top of spur. Descend abruptly.

20.15 Edge of bluff 1500 ft. high.
As I am unable to proceed
further on this line I set
a sandstone 20 X 16 X 10 ins.
in a md. of stone for wit-
ness cor. to the $\frac{1}{4}$ sec. cor.
marked W. C. $\frac{1}{4}$ on N. face
from which a spruce 14 ins.
diam. bears N. 4° E. dist.

18 lks. marked W. l. $\frac{1}{4}$ S
20 B. T.

A spruce 12 ins diam. bears
S. 1° E. dist. 30 lks. marked
W. l. $\frac{1}{4}$ S. 29 B. T.

Land mountainous 20.15 chs.
Dense pine, spruce and
oak brush 20.15 chs. Soil
4th rate.

N. $0^{\circ}03'W$. bet. sec. 19 and 20.

Over mountainous land through dense pine, spruce and oak brush descending abruptly to cañon.

- 2.65 Bottom of cañon 500 ft. deep, course N. E. ascend precipitous bluff.
- 22.00 Top of bluff bears N. E. & S. W. continue to ascend.
- 32.80 Edge of bluff of West Branch of Oak Creek bears E. & W. Descend abruptly.
- 36.59 As the point for the $\frac{1}{4}$ sec. cor. comes in an insecure place I set a sandstone $18 \times 12 \times 5$ ins in a md. of stone for witness cor. to the $\frac{1}{4}$ sec. cor. marked W. c. $\frac{1}{4}$ on W. face from which

a spruce 10 ins. diam. bears
N. 65° E. 18 lks. dist. marked
W. C. $\frac{1}{4}$ S. 20 B. T.

A spruce 5 ins. diam. bears
N. 88° W. dist. 40 lks. marked
W. C. $\frac{1}{4}$ S 19 B. T.

59.20 West Branch of Oak Creek
15 lks. wide, course E. ascend
abruptly.

79.00 Top of tongue from mesa
bears S. E. & N. W.

79.16 At the point for sec. cor.
comes in deep gulch where
it would be difficult to
maintain, I set a sandstone
 $28 \times 14 \times 6$ ins. in a md. of
stone for witness cor. to cor.
of secs. 17, 18, 19 and 20,
marked W. C., with three

notches on S. and 5 notches
on E. edges, from which a
cedar 10 ins. diam. bears
N. 86° E. dist. 12 lks. marked
W. C. T. 19 N. R. 6 E. S. 17 B. T.

A spruce 12 ins. diam. bears
N. 50° W. dist. 31 lks marked
W. C. T. 19 N. R. 6 E. S. 18 B. T.

A pine 6 ins diam. bears
S 25° W. dist 25 lks. marked
W. C. T. 19 N. R. 6 E. S. 19 B. T.

Land mountainous 80 chs.
Dense pines and spruce 80 chs.
Soil 4th rate

Sept. 4 - 1902

Raised a ind. of stone 2 ft. base
 $1\frac{1}{2}$ ft. high W. of cor. Pits im-
practicable. No other taxes in
limits.

Sept 5: At 8^ha. m. l. m. t.
 I set off $34^{\circ}59' N.$ on the
 lat. arc, $7^{\circ}03' N.$ on the
 decl. arc, and determine
 a true meridian with
 the solar at the witness
 cor. of secs. 17, 18, 19 & 20.
 Because of the impossibility
 of running west bet. secs.
 18 and 19, I run $N. 0^{\circ}03' W.$
 bet. secs. 17 and 18 on a
 random line.

40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.22 I fall one link east of
 cor. of secs. 7, 8, 17 & 18, thence
 I run $S. 0^{\circ}03' E.$ on a true
 line bet. secs. 17 and 18
 Over mountainous land,
 through dense pine & oak brush.

- 11.35 Gulch, course S.E.
- 22.00 Gulch, course S.E. ascend
- 40.11 Set a S.S. 22 X 14 X 10 ins. in
a md. of stone for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ on W. face, from
which
A pine 26 ins. diam. bears
N. 45° E. dist. 49 lks, marked
 $\frac{1}{4}$ S. 17 B. T.
A pine 30 ins. diam. bears
S. 25° W. dist. 38 lks, marked
 $\frac{1}{4}$ S. 18 B. T.
- 44.55 Top of ridge bet. gulches, bears
N. W X S. E.
- 51.00 Descend steep slope diagonally.
- 54.50 Bottom of cañon, course S.E.
Ascend.
- 73.85 Top of ascent. Descend.
- 78.30 Edge of rim of East Fork of

Oak creek bears E. & W.

Descend precipitously.

80.00 Bottom of gulch 600 ft deep.

81.06 The witness cor. to cor. of sec.
 $\begin{array}{r} 50. \\ 32 \\ \hline 82. \end{array}$
 17, 18, 19 & 20.

Land mountainous, 80.22 cho

Dense pines 80.22 cho

Soil 4th rate

From the cor. of secs. 32 & 33 on the south B'dy. which is a quartz rock 6x10 ins. above ground, marked and witnessed as described by the Surveyor General, & run N 0°03' W. bet. secs. 32 & 33.

Over mountainous land, through dense pines and oak brush.

18.50 Edge of rim of cañon, bears N. W. & S. E. Descend abruptly.

20.48 Set a S.S. 36x24x12 ins. in a md. of stone for witness cor. to the $\frac{1}{4}$ sec. cor. marked W. c. $\frac{1}{4}$ on W. face from which a spruce 18 ins. diam. bears S. 15° W. dist. 2.6 lks marked W. c. $\frac{1}{4}$ S. 32 B. T.

An oak 8 ins. diam. bears N.
60° E. 48 lks dist. marked
W. 6. $\frac{1}{4}$ S. 33. B. T.

It is impossible to proceed
further on this line.

From the cor. of sec. 33 & 34 on
the S. B'dy. which is a limestone
6 X 12 ins. above ground, marked
and witnessed as described by
the Surveyor General, I run
N. $0^{\circ}02'W$. bet. sec. 33 & 34.

Through dense pine, spruce
and oak brush over mount-
ainous land descending

2.10 Bottom of gulch, course
N. $75^{\circ}E$. ascend.

20.60 Top of ascent, descend.

40.00 Set a limestone 18 X 12 X 10 ins.
in a md. of stone for $\frac{1}{4}$ sec.
cor. marked $\frac{1}{4}$ on W. face, from
which

A pine 36 ins. diam. bears
S. $8^{\circ}W$. 12 lks. dist. marked
 $\frac{1}{4}$ S. 33 B. T.

A pine 10 ins. diam. bears E.
44 lks. dist. marked $\frac{1}{4}$ S. 34. B.T.
Ascend.

55.55 Top of ascent, edge of vertical
bluff 1000 ft. high.

Descend precipitously.

61.15 Bottom of cañon, course
N.E. ascend abruptly.

75.80 Top of point bears N.W. &
S.W. set a saddlestone 16 X 10
X 10 ins. in a md. of stone
for witness cor. of secs. 27,
28, 33 & 34, marked W.C.,
with one notch on S and
3 notches on E. edges, from
which a

A pine 24 ins. diam. bears
N. 80° W. 85 lks. dist. marked
W.C. T. 19 N. R. 6 E. S 33 B. T.

32 Sub. Line J. 19 v. R. 6 E,

76.10 No other trees. Raised a. md. of st. 2 ft base $1\frac{1}{2}$ ft. high N. of cor. Pils imp ractica
Edges of perpendicular bluff
2500 ft. high.

It is impossible to proceed
further on this line.

Land mountainous 76.10 cho.

Dense pines, spruce & oak brush
76.10 cho.

Soil 4th rate.

Sept. 5. 1902

one
ble.

Sept 6: At 8^h a. m. l. m. t.
I set off $6^{\circ}40'$ on the decl.
arc., $35^{\circ}03'$ N. on the lat.
arc; and determine a true
meridian with the solar at
the cor. of secs. 8, 9, 16 & 17.

Thence I run

S. $0^{\circ}03'$ E. bet. secs. 16 & 17.

Through dense pines descending

40.00 Set a malpais $18 \times 14 \times 6$ ins
in a md. of stone for $\frac{1}{4}$ sec.
cor. marked $\frac{1}{4}$ on W. face,
from which

An oak 10 ins. diam. bears
N. 85° W. dist. 15 lks; marked
 $\frac{1}{4}$ S. 17 B. T.

An oak 8 ins. diam. bears
S. 70° E. dist. 18 lks, marked
 $\frac{1}{4}$ S. 16 B. T.

- 40.30 Bottom of gulch, course S.E. ascend.
- 56.00 Top of ascent
- 80.00 Set a malpais 18x12x4 ins.
in a md. of stone for cor. of
secs. 16, 17, 20 & 21 marked with
3 notches on S. and 4 notches
on E. edges, from which
A pine 26 ins. diam. bears
N. 16° W. 46 lks. dist. marked
T. 19 N. R. 6 E. S. 17 B. T.
- An oak 4 ins. diam. bears
N. 43° E. 47 lks. dist. marked
T. 19 N. R. 6 E. S. 16 B. T.
- An oak 6 ins. diam. bears
S. 21° E. dist. 106 lks. marked
T. 19 N. R. 6 E. S. 21 B. T.
- An oak 6 ins. diam. bears
S. 74° W. 105 lks. dist. marked
T. 19 N. R. 6 E. S. 20 B. T.

Land rolling 80 chs.

Dense pines and oak brush
80 chs.

- W. on a random line bet. secs:
17 & 20
- 50.00 Set temp. witness $\frac{1}{4}$ sec. cor.
- 79.86 Intersect N. & S. line 107 lks.
N. of witness cor. to cor. of secs.
17, 18, 19 & 20, thence I run
N. $89^{\circ}50'E$. from proper point
for sec. cor. bet. secs. 17 & 20
Over mountainous land.
- 20.00 Ascend abruptly
- 30.00 Top of point of mesa. As point
for $\frac{1}{4}$ sec. cor. will come in
unsafe place, I set a lime
stone $18 \times 18 \times 6$ ins. in a md.
of stone for witness cor. marked
W. C. $\frac{1}{4}$ on N. face from which
A pine 7 ins diam. bears
 $S 70^{\circ} W. 56$ lks dist. marked
W. C. $\frac{1}{4}$ S. 20 B. T. No other trees.
Raised a md. of stone 2 ft. base $1\frac{1}{2}$ ft.
high. n. of cor. Pits impracticable.

- Descend precipitously 1200 ft.
- 64.00 Bottom of cañon, course S.W.
ascend abruptly
- 70.00 Top of bluff of mesa, bears
N. E. & S. W.
- 79.86 The cor. of secs. 16, 17, 20 & 21
Land mountainous.
Soil 4th rate 79.86 chs.
Sept 6 - 1902

Sept. 7: At 8^h a.m. l.m.t.
 I set off $6^{\circ}18'$ ^N_A on the decl. arc;
 $35^{\circ}02'$ N. on the lat. arc;
 and determine a true
 meridian with the solar
 at the cor. of secs. 16, 17, 20 & 21.
 Thence I run S. $0^{\circ}03'$ E. bet.
 secs 20 & 21

Through dense pines and
 oak brush, over mountainous
 land, descending

- 12.55 Bottom of cañon, course S.
 60° W. ascend abruptly.
- 18.20 Top of bluff S. side, bears
 N. E. & S. W. descend
- 25.00 Bottom of cañon, course W.
 ascend.
- 35.75 Top of ascent
- 40.00 Set a S.S. $18 \times 14 \times 8$ ins., in a

md. of stone for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ on W. face, from which

A pine 18 ins. diam. bears
N. 18° E. dist. 43 lks. marked
 $\frac{1}{4}$ S. 21 B.T.

A pine 22 ins. diam. bears
W. 95 lks dist. marked
 $\frac{1}{4}$ S. 20 B.T.

- 60.60 Descend diagonally along W.
slope of gulch
- 70.00 Bottom of gulch, course S.
 30° W. ascend diagonally
- 73.40 Edge of lime stone cliff, bears
S.E. & N.W. descend abruptly.
- 76.45 Gulch course W. ascend a
perpendicular cliff 600 ft high
- 77.81 Top of cliff. Set a ^{sandstone} S.S. $18 \times 14 \times 15$ _{ms}
in a md. of stone for witness
cor. to cor. of secs 20, 21, 28 & 29

marked W. C. with 2 notches
on S. and 4 notches on E. edges.
from which

A pine 24 ins. diam. bears
S. 60° W. 19 lks. dist. marked
W. C. T. 19 N. R. 6 E. S. 20 B. T.

A spruce 20 ins. diam. bears
N. 45° E. 60 lks. dist. marked
W. C. T. 19 N. R. 6 E. S. 21 B. T.

Land mountainous 80 chs

Dense pines 80 chs

Soil 4th rate.

No other trees in limits. Raised
a mound of stone 2 ft. base $1\frac{1}{2}$
ft. high. St. of cov. Pits impractic-
able.

From the cor. of secs. 8, 9, 16 & 17
 I run E. on a true line
 bet. secs. 9 & 16

Over rolling ground, through
 dense pines and oak brush.

40.00 Set a malpais 26 X 12 X 5 ins.
 in a md. of stone for $\frac{1}{4}$ sec.
 cor. marked $\frac{1}{4}$ on N. face,
 from which

A pine 28 ins. diam. bears
 S. 60° E. 148 lks. dist. marked
 $\frac{1}{4}$ S. 16 B. T.

A pine 16 ins. diam. bears
 N. 62° W. 54 lks. dist. marked
 $\frac{1}{4}$ S. 9 B. T.

80.00 Set a malpais 18 X 12 X 12 ins.
 in a md. of stone for cor.
 of secs. 9, 10, 15 & 16, marked
 with 4 notches on S. and

3 notches on E. edge, from which
 An oak 8 ins. diam. bears
 S. $0^{\circ}30'$ E. 5 lks. dist. marked
 T. 19 N. R. 6 E. S. 15 B. T.

An oak 5 ins. diam. bears
 S. 87° W. 28 lks. dist. marked
 T. 19 N. R. 6 E. S. 16 B. T.

An oak 14 ins. diam. bears
 N. 61° W. 147 lks. dist. marked
 T. 19 N. R. 6 E. S. 9 B. T.

A pine 16 ins. diam. bears
 N. 50° E. 94 lks. dist. marked
 T. 19 N. R. 6 E. S. 10 B. T.

Land rolling. Dense pines
 & oaks 80 chs.

Soil 4th rate

Sept. 7-1902

Sept. 8: At 8^h a. m. l. m. t.
 I set off. $5^{\circ}55'$ ^N on the decl.
 arc; $35^{\circ}03'$ N. on the lat.
 arc; and determine a true
 meridian with the solar
 at the cor. of secs. 9, 10, 15 & 16

Thence I run

S. $0^{\circ}02'$ E. bet secs. 15 & 16

Over mountainous land,
 through dense pines and
 oak brush.

40.00 Set a malpais $16 \times 14 \times 6$ ins
 in a md. of stone for $\frac{1}{4}$ sec.
 cor. marked $\frac{1}{4}$ on W. face
 from which

An oak 6 ins. diam. bears
 N. 45° W. 80 lbs diot. marked
 $\frac{1}{4}$ S. 16 B. T.

A pine 26 ins. diam. bears

- S. 35° E. 72 lks dist. marked
 $\frac{1}{4}$ S. 15 B. T.
- 57.00 Edge of bluff of cañon, bears
 N. W & S. E. descend
- 67.60 Bottom of cañon, course
 S. 70° E., ascend.
- 80.00 Set a sandstone $16 \times 12 \times 8$ ins
 in a md. of stone for cor. of
 secs. 15, 16, 21 & 22 marked with
 3 notches on S and E. edges
 from which
- An oak 7 ins. diam. bears
 N. 50° E. dist 95 lks marked
 T. 19 N. R. 6 E. S. 15 B. T.
- A pine 18 ins. diam. bears
 N. 80° W. 31 lks dist. marked
 T. 19 N. R. 6 E. S. 16 B. T.
- An oak 8 ins. diam. bears
 S. 18° E. dist. 83 lks marked

T. 19 N. R. 6 E. S. 22 B. T.

A pine 16 ins. diam. bears
S. 40° W. dist. 177 lks. marked

T. 19 N. R. 6 E. S. 21 B. T.

Land mountainous 80 chs.

Dense pines & oaks 80 chs.

Soil 3rd rate

W. on a random line bet.
secs 16 & 21

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.28 The cor. of secs. 16, 17, 20 & 21.
Thence I run E. on a true
line bet. secs 16 & 21.

40.14 Set a lime stone $18 \times 12 \times 7$ ins
in a rnd. of stone for $\frac{1}{4}$ sec.
cor. marked $\frac{1}{4}$ on N. face,
from which

A pine 32 ins. diam. bears
N. 6° W. dist. 49 lks, marked
 $\frac{1}{4}$ S. 16 B. T.

An oak 6 ins. diam. bears
S 18° E, 37 lks dist. marked
 $\frac{1}{4}$ S. 21 B. T.

72.25 Gulch, course N.

80.28 The cor. of secs. 15, 16, 21 & 22
Land mountainous 80.28 chs

Dense pines & oaks 80.28 chs
Soil 3rd rate .

S. $0^{\circ}02'$ E bet. secs. 21 & 22.

Over mountainous land
through dense pines & oaks,
ascending

23.00 Top of ridge bears N. E. & S. W;
descend steep slope diagonally

40.00 Set a s.s. 22 X 14 X 10 ins in
a md. of stone for $\frac{1}{4}$ sec.
cor., marked $\frac{1}{4}$ on W. face,
from which

An oak 8 ins. diam. bears
S. 40° E. dist. 43 lks. marked
 $\frac{1}{4}$ S. 22 B. T.

A pine 10 ins. diam. bears
N. 43° W. dist. 17 lks, marked
 $\frac{1}{4}$ S. 21 B. T.

44.00 Bottom of gulch, course N. E.
ascend

51.50 Top of ascent, descend

- 72.70 Bottom of gulch, course S. W.
ascend diagonally
- 80.00 Set a lime stone $26 \times 14 \times 8$ ins
in a md. of stone for cor. of
secs 21, 22, 27 & 28, marked
with 2 notches on S and 3
notches on E edges, from which
A pine 24 ins. diam. bears
S. 45° W. 55 lks dist, marked
T. 19 N. R. 6 E. S. 28 B. T.
- An oak 8 ins. diam. bears
N. 42° W. 41 lks dist. marked
T. 19 N. R. 6 E. S. 21 B. T.
- An oak 8 ins. diam. bears
N. 28° E. 40 lks. dist. marked
T. 19 N. R. 6 E. S. 22 B. T.
- A pine 20 ins. diam. bears
S. 22° E. 35 lks. dist. marked
T. 19 N. R. 6 E. S. 27 B. T.

Land mountainous 80chs
Dense pines & oaks 80chs.
Soil 4th rate.

- S. $0^{\circ}02'$ E bet. secs. 27 & 28
 Over mountainous land,
 through dense pines & oak bushes
- 12.20 Edge of precipitous bluff, bears
 W. & S. E. descend
- 15.15 Bottom of gulch, course S. W.
 ascend
- 18.85 Top of spur
- 21.35 Edge of bluff of spur 2000 ft high.
 Set a ^{sandstone} S.S. 24 X 14 X 6 ins. in a
 md. of stone for witness cor.
 to $\frac{1}{4}$ sec. cor. marked W. C.
 $\frac{1}{4}$ on W. face, from which
 A pine 14 ins. diam. bears
 N. 40° E. dist 48 lks. marked
 W. C. $\frac{1}{4}$ S. 27 B. ^{no other trees} $\frac{1}{4}$ in limits.
 Raised a md. of stone 2 ft. base $\frac{1}{2}$ ft high
 at W. of cor. ^{Pits in practicality}
 It is impossible to proceed further
 on this line.
- Land mountainous 21.35 cho

Dense pines & oak brush
21.35 cho.

Soil 4th rate.

Sept. 8 - 1902

Sept. 9: At 8^h a.m. l.m.t.
 I set off $5^{\circ}33'$ ^N on the decl. arc,
 $35^{\circ}01'$ N. on the lat arc;
 and determine a true merid-
 ian with the solar at the
 cor. of secs. 21, 22, 27 & 28.

Thence I run W. on a true
 line bet. secs. 21 & 28.

Over mountainous land,
 through dense pines &
 oak brush.

- 3.00 Bottom of gulch, course S.
 30° W. ascend
- 17.35 Top of ascent, descend
- 31.65 Bottom of gulch, course S.
 60° W. ascend diagonally
- 36.35 Top of ascent
- 40.00 Set a s.s. $18 \times 12 \times 8$ ins. in
 a md. of stone for $\frac{1}{4}$ sec.

cor., marked $\frac{1}{4}$ on N. face,
from which

A pine 18 ins. diam. bears
N. 12° W. dist 28 lks, marked
 $\frac{1}{4}$ S. 21 B. T.

A pine 8 ins. diam. bears
S. 65° W. dist 27 lks marked
 $\frac{1}{4}$ S. 28 B. T.

- 40.30 Descend steep slope
- 45.45 Bottom of gulch, course S.E.
ascend steep slope
- 51.50 Top of ascent, descend
- 62.00 Bottom of cañon, course
S. 30° E. ascend
- 66.65 Top of ascent
- 70.50 Set a lime stone $13 \times 11 \times 9$ ins
in a md. of stone for witness
cor to cor. of secs. 20, 21, 28 & 29
marked W. C. with 2 notches

on S and 4 notches on E.
edges, from which

An oak 8 ins. diam. bears
N. 68° E. 22 lks dist. marked
W. C. T. 19 N. R. 6 E. S. 21 B. T.

A pine 30 ins. diam. bears
S 11° E. 70 lks. dist. marked
W. C. T. 19 N. R. 6 E. S. 28 B. T.

71.20 Edge of vertical bluff of
mesa 1500 feet high bears
N. & S.

Land mountainous 71.20 chs.
Dense pines & oaks 71.20 chs.
Soil 3rd rate.

No other trees in limits; Raised
a md. of stone 2 ft. base $1\frac{1}{2}$ ft
high W of cov. Pits impracticable.

N. $0^{\circ}02$ W. bet. secs. 9 & 10

Over mountainous land,
through dense pine & oak
timber

40.00 Set a malpais $18 \times 16 \times 6$ ins.
in a md. of stone for $\frac{1}{4}$ sec.
cor. marked $\frac{1}{4}$ on W. face,
from which

A pine 32 ins. diam. bears
S. 45° W. one lk dist, marked
 $\frac{1}{4}$ S. 9 B. T.

A pine 42 ins. diam. bears
S. 59° E. 45 lks. dist, marked
 $\frac{1}{4}$ S. 10 B. T.

80.00 Set a malpais $18 \times 16 \times 6$ ins.
in a md. of stone for cor.
of secs. 3, 4, 9 & 10 marked
with 3 notches on E. & 5
notches on S. edges, from which

An oak, 6 ins. diam. bears
N. 38° E. 27 lks. dist. marked
T. 19 N. R. 6 E. S. 3 B. T.

A pine 26 ins. diam. bears
N. 15° W. 42 lks. dist. marked
T. 19 N. R. 6 E. S. 4 B. T.

A pine 30 ins. diam. bears
S. 82° W. 57 lks. dist. marked
T. 19 N. R. 6 E. S. 9 B. T.

A pine 8 ins. diam. bears
S. 70° E. 72 lks. dist. marked
T. 19 N. R. 6 E. S. 10 B. T.

Land mountainous 80 chs
Dense pines & oaks 80 chs.
Soil rocky, 4th rate

Sub. Line S. 19 N. R. 6 E.

W. on a random line bet.
secs 4 & 9.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.66 Intersect N. & S. line 25 lks
N. of cor. of secs. 4, 5, 8 & 9.

Thence I run:

N. $89^{\circ}49'$ E. on a true line
bet secs. 4 & 9

Over rolling ground, through
dense pines

39.83 Set a malpais $17 \times 14 \times 5$ ins
in the ground for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ on N. face, from
which

A pine 10 ins. diam. bears
N. 1° E. 30 lks. dist. marked
 $\frac{1}{4}$ S. 4 B. T.

A pine 18 ins. diam. bears
S. 10° W. 162 lks. dist. marked

$\frac{1}{4}$ S. 9 B. T.

79.66 The cor. of secs 3, 4, 9 & 10
Land rolling 79.66 chs.
Dense pines 79.66 chs
Soil 3rd rate.

