

MAR 28 1911

53

Subdivisional

2597

BOOK-S

BOOK 2597

FIELD NOTES

AND RESURVEY
OF THE SURVEY OF THE

Subdivision lines of Township No. 29, North
of Range No. 16 East.

Of the Gila and Salt River Base and Meridian,

in the Territory of Arizona

EXECUTED
AS SURVEYED BY

Sidney E. Blunt, United States Examiner of Surveys
Deputy Surveyor

Special instructions from the Commissioner of the General Land Office
Under his Contract No. _____, dated October 2nd 1907 and May 15th 1908.

and Resurvey
Survey commenced April 11th _____, 1909

and Resurvey
Survey completed April 23rd _____, 1909

NAMES AND DUTIES OF ASSISTANTS.

Van L. White

Comptroller

Lafayette Jennings

Chairman

Chas. L. Shumway

Chairman

Fred L. Warner

Mourner

Arthur A. Beard

Comptroller

Jay E. Jellicock

Flagman

Harvey Lake May

Flagman

55
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Book No. 2597

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PRELIMINARY OATHS OF ASSISTANTS.

See Subdivisional Book "M"

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

_____, Chainman.

_____, Chainman.

Subscribed and sworn to before me this _____ }
day of _____, 190 }



WE, _____ and _____
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 _____

_____, Moundman.

_____, Moundman.

Subscribed and sworn to before me this _____ }
day of _____, 190 }



WE, _____ and _____
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 _____

_____, Axman.

_____, Axman.

Subscribed and sworn to before me this _____ }
day of _____, 190 }



I, _____, 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 _____

_____, Flagman.

Subscribed and sworn to before me this _____ }
day of _____, 190 }



Chains

Survey commenced April 11th 1909, and executed with a W and E. Gurley engineers transit - No. 76 with a Burt-Solar attachments. The horizontal limb is provided with one double vernier reading to single minutes of arc, the verniers of the latitude and declination arcs, reading to 0' 30" of arc.

Examined the adjustments of the transit and correct the level and collimation errors, then to test the solar apparatus by comparing its indications resulting from solar observations made during a.m. and p.m. hours, with a meridian determined by observations on Polaris & proceed as follows.

At my camp located near the Cor. of Secs. 16, 17, 20 and 21. Twp. 29 N, R16 E. Latitude $35^{\circ}54'41''$, Longitude $110^{\circ}38\frac{1}{2}'$ W.; I set off $35^{\circ}54'$ N, on the Lab. arc $8^{\circ}21\frac{1}{2}'$ N, on the decl. arc, and at 3^h 00^m p.m. ^{l.m.t.} determine with the solar a meridian and mark a point thereof by a tack driven in a stake set firmly in the ground 5 chs. N. of my instruments. At 6^h 03^m p.m. l.m.t. I observe Polaris at western elongation in accordance with instructions in the manual and mark the direction thus determined by a tack driven in a stake set firmly in the ground 5 chs. N. of my station.

April 11th 1909

April 12th 1909, at 6^h 30^m a.m. ^{l.m.t.} I lay off the azimuth of Polaris, 127' to the east and mark the meridian thus determined by a tack driven in the stake already set 5 chs. N. of my instruments at which the meridian falls, 0.4 in. east of the point determined by the solar.

At 7^h 00^m a.m. ^{l.m.t.} I set off $35^{\circ}54'$ N, on the Lab. arc $8^{\circ}37'$ N, on the decl. arc and determine a meridian with the solar, and mark a point thereof by a nail driven in the stake already set 5 chs. N. of my instruments; this point falls 0.3 in. east of the meridian determined by the Polaris observation.

The solar apparatus by p.m. and a.m. observations

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defined positions for meridians respectively about 0'21" west and 0'16" east of the meridian established by the Polar observation, therefore I conclude that the adjustments of the instrument are satisfactory.

I begin at the Stand Cor. of sec 35 and 36 T 29 N., R 16 E., which I re-established Dec. 15th 1908, ^{and described in Standard Book "C"} latitude $35^{\circ} 51' 28''$ N., Longitude $110^{\circ} 55' W$

At this cor. I set off $35^{\circ} 51\frac{1}{2}'$ N. on the lat. arc, $8^{\circ} 37\frac{1}{2}'$ on the decl. arc, and at 8^h 30^m am. l.m.t. determine a meridian with the solar, then I run, resurveying

$N 0^{\circ} 01' W$, bet. sec 35 and 36.

Descend N.W. slope over hilly sandy and adobe land through scattering sage and greasewood bush and bunch grass.

- 17.00 Dry ravine course N.W. arc.
- 17.50 Top of sand ridge bet. N.W. and S.E. desc.
- 20.00 No trace of old $\frac{1}{16}$ sec. cor. can be found
- 39.00 Road to Oraibi Ariz bet. E. and W.
- 39.50 Foot of descent. Care hilly land bet. E. and W. enter level land bet. E. and W.
- 40.00 Set an iron post 3 ft. long 1 in. in diam 26 ins. in the ground, ^{pre-established} for $\frac{1}{16}$ sec. cor. marked on brass cap. $N 4 S 35$ on W. half and $S 36$ on E. half, Dig pits $18 \times 18 \times 12$ ins. N. and S. of post 3 ft. dist. and raise a mound of earth $3\frac{1}{2}$ ft. base, $11\frac{1}{2}$ ft. high W. of cor. ^{No trace of orig. $\frac{1}{16}$ sec. cor. can be found.}
- 56.00 Dry sand wash, 100 yds wide, banks $1\frac{1}{2}$ ft. high
- 60.00 Course W., ascend gradually over S.W. slope. ^{No trace of old $\frac{1}{16}$ sec. cor. can be found.}
- 62.00 Road from Placea Ariz to Oraibi Ariz bet. E. and W.
- 80.00 Set an iron post 3 ft. long 2 in. in diam 24 ins. in the ground ^{pre-established} for $\frac{1}{16}$ sec. cor. of sec. 25, 26, 35 and 36, marked on brass cap. T 29 N S 26 in N.W., R 16 E. S 25 in N.E. S 36 in S.E. and S 35 in S.W. quadrants.
- Dig pits $18 \times 18 \times 12$ ins in each. sec, $5\frac{1}{2}$ ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high W. of cor. No trace of orig. cor. can be found.
- Land level, rolling and hilly.
- Soil sandy and adobe 2nd and 3rd rate.
- No timber.

Chains

- 40.00 Cash on a random line bet. sec 25 and 36.
 40.00 Set temp $\frac{1}{4}$ sec. cor.
 80.08 Intersect the 4th Guide Meridian East. at the
 cor. of sec. 25, 30, 31 and 36, recently re-estab. by me
 and described in Standard Book "B"
 Thence I run, resurveying
 Wch. on a true line bet. sec. 25 and 36.
 Ascend S.W. slope over rolling sandy land
 through scattering sage brush undergrowth
 and bunch grass.
 1.50 Dry ravine course S.W. asc.
 7.00 Road to Chair's Ariz. band
 N.E. and S.W.
 9.00 Top of sand ridge bet. sec 25 and 36
 gradually over N.W. slope.
 17.00 Dry ravine course S.W. asc.
 18.50 Top of sand ridge bet. sec 25 and 36
 20.02 No trace of old $\frac{1}{16}$ sec. cor. can be found.
 31.00 Dry ravine course South asc.
 37.50 Top of ridge bet. sec 25 and 36.
 40.04 Set an iron post 3 ft. long, 1 in. in diam.
 26 in. in the ground ^{re-established} for $\frac{1}{4}$ sec. cor. marked
 on base Cop '4 525 on N. half and S 36 on
 S half.
 Dig pits 18 x 18 x 12 ins. E and W of post 3 ft.
 deep, and raise a mound of earth 3 $\frac{1}{2}$ ft.
 base, 1 $\frac{1}{2}$ ft. high. N. of cor. No trace of orig. $\frac{1}{16}$ sec. cor. can
 be found.
 52.00 Post of descent in depression bet. sec 25 and
 36. chain South. asc. E slope.
 60.06 No trace of old $\frac{1}{16}$ sec. cor. can be found.
 61.00 Top of stony ridge bet. sec 25 and 36
 gradually over N.W. slope
 80.08 ^{re-established} the cor. of sec 25, 26, 35 and 36, - described
 herebefore.
 Land hilly and rolling.
 Soil sandy and stony 3rd and 4th grade.
 No timber.

- 2.00 N 0° 01' W. bet. sec 25 and 26, resurveying.
 Ascend S. slope over rolling sandy land through
 scattering sage brush undergrowth and bunch grass.
 20.00 Top of low sand ridge bet. sec 25 and 26
 over N. slope.
 40.00 No trace of old $\frac{1}{16}$ sec. cor. found at this point.
 Set an iron post 3 ft. long 1 in. in diam. 26 in. in
 the ground ^{re-established} for $\frac{1}{4}$ sec. cor. marked on base Cop '4 526

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on W. half and S 25 on E half.

Dig pits 18x18x12 ins. N. and S. of post. 3 ft. dist.
and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high
W. of cor. No trace of orig. 1/4 sec. cor. can be found.NOTE On this cor. I set off 8° 40' N. on the decl. arc and
at 12^h 01 p.m. (L.M.T. observe) the sun on the meridian
and obtain on the lat. arc a reading of 35° 52 1/2' N.

60.00

80.00

No trace of old 1/4 sec. cor. can be found.
Set an iron post - 3 ft. long 2 ins. in diam. 2 x ins.
re-established
in the ground for 1/4 Cor. of sec. 23, 24, 25 and 26, marked
on brass cap T 29 N S 23 in N.W. R 16 E S 24 in N.E.
S 25 in S.E. and S 26 in S.W. quadrant.Dig pits 18x18x12 ins in each. sec 5 1/2 ft. dist. and
raise a mound of earth 4 ft. base 2 ft. high W of
cor. No trace of orig. cor. can be found.

Land rolling.

Soil sandy 3rd rate

No timber.

Each on a random line bet. sec. 24 and 25,

40.00 Set temp 1/4 sec. cor.

80.02 Enter the 4th 1/4 Sec. Meridian Cor. on the
Cor. of sec. 19, 24, 25 and 30, recently estab. by me & described
in Standard Book "B"
Thence Drive

West on a true line bet. sec. 24 and 25 -

Descend steep rocky N.W. slope over hilly land. through
scattering sage brush undergrowth and bunch grass.

5.00 Dry ravine Course N. ase.

12.00 Top of rocky ridge head N.W. and S.E. desc. steeply.

27.00 Foot descent in dry ravine Course N. ase.

30.00 Top of rocky ridge head N and S. desc.

40.01 Set an iron post - 3 ft. long 1 in. in diam. 26 ins.
in the ground for 1/4 sec. Cor. marked on brass cap
1/4 S 24 on N. half, and S 25 on S. half.Dig pits 18x18x12 ins. E. and W. of post. 3 ft. dist.
and raise a mound of earth 3 1/2 ft. base 1 1/2 ft.
high N. of cor.

52.00 Dry ravine Course S.W. ase.

55.00 Top of sand ridge head N.E. and S.W. desc. N.W.
slope80.02 ^{re-established} The 1/4 Cor. of sec. 23, 24, 25 and 26, heretofore described.
Land hilly.

Chains

Soil sandy and stony 3rd and 4th rate.
No timber.

N 0° 01' W. bet. sec. 23 and 24.

Over rolling sandy land through scattering
sage and greasewood bush. undergrowth and
bunch grass.

5.00 Leave rolling land bear N.E. and S.W., enter
level label bear N.E. and S.W.

40.00 Set an iron post 3ft. long 1 in. in diam. 26 ins. in
the ground for $\frac{1}{4}$ sec. cor. marked on brass cap "C"
S 23 on W. half and S 24 on E. half.

Dig pits 18x18x12 ins. N and S. of post. 3ft. dist.
and raised mound of earth $3\frac{1}{2}$ ft. low 1 $\frac{1}{2}$ ft.
high W. of cor.

45.50 Right bank of the Oasis Wash. 25 ft high. bear
N.E. and S.W.

47.00 Centre of wash (dry) course S.W.

49.00 Left bank of the Oasis Wash. bear N.W. and S.E.

56.75 Dry wash. 25 ft wide course S.W.

80.00 Set an iron post 3ft. long 2 ins. in diam. 24 ins.
in the ground for cor. of Secs. 13, 14, 23 and 24
marked on brass cap. T 29 N S 14 in N.W. R 16 E
S 13 in N.E. S 24 in S.E. and S 23 in S.W. quadrants.
Dig pits 18x18x12 ins. in each sec. 5 $\frac{1}{2}$ ft. dist.
and raised mound of earth 4 ft. low, 2 ft.
high W. of cor.

Land level and rolling.

Soil sandy and adobe. 3rd rate.

No timber.

Continue a random line bet. sec. 13 and 24

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

80.06 Intersect the 4th Guide Meridian East. 12 $\frac{1}{2}$ ft.
N. of the cor. of sec. 13, 18, 19 and 24 recently estab.
by me and described in Standard Book "B"
Thence Direct

N 89° 55' W on a true line bet. sec. 13 and 24
descend abruptly rocky N.W. slope over mountainous
land.

15.50 Dry ravine course N.E. and abruptly.

21.00 Top of ascent on E. edge of mesa bear N and S

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- Leave mountainous land toward N. and S. Enter rolling land toward N. and S.
- 25.80 With edge of mesa toward N. and S. Leave rolling land toward N. and S. descend abruptly over stony mountainous land toward N. and S.
- 40.03 Set an iron post 3 ft. long 1 in. in diam. 26 in. in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap $\frac{1}{4}$ S 130 on W. half and S 24 on S. half.
Dig pits 18 x 18 x 12 in. E. and W. of post. 3 ft. dist. and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high N. of cor.
- 48.00 Foot of descent toward mountainous land toward N. and S. Enter level adobe land. Covered with sage and greasewood brush undergrowth toward N. and S.
- 80.06 The cor. of secs. 13, 14, 23 and 24, heretofore described. Land level, rolling and mountainous.
Soil sandy, adobe, and stony 3rd and 4th rate.
No timber.
Mountainous land 43.20 ch

April 12th 1909

- 1909
April 13th Ah. 7^h 30^m a.m. l.o.t. Set off $35^{\circ} 54' N.$ on the bar arc $8^{\circ} 59' N.$ on the decl. arc and determine a meridian with the solar at the cor. of secs. 13, 14, 23 and 24, heretofore described.
Thence I run
N $0^{\circ} 01' W$ to cor. of secs. 13 and 14.
Over level sandy and adobe bottom land, through sage and greasewood brush undergrowth and bunch grass
- 36.50 Road to Oraibi Ariz. toward N.E. and S.W.
- 40.00 Set an iron post 3 ft. long 1 in. in diam. 26 in. in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap $\frac{1}{4}$ S 14 on W. half and S 13 on E. half.
Dig pits 18 x 18 x 12 in. N. and S. of post. 3 ft. dist. and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high. W. of cor.
- 42.50 Lf. bank of the Oraibi Wash. 25 ft. high. toward N.E. and S.W.
- 50.50 Right bank of the Oraibi Wash. 20 ft. high toward N.E. and S.W.
- 80.00 Set an iron post 3 ft. long, 2 in. in diam. 24 in. in the ground for cor. of secs. 11, 12, 13 and 14, marked on

Claims

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Tran Cap T 29 N, S 11 in NW, R 16 E S 12 in NE, S 13 in SE, and S 14 in SW quadrants.

Dig pits 18x18x12 ins. in each sec. 5 1/2 ft. dist, and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.

Land level.

Soil sandy and adobe 3rd rate.

No timber

S 89° 55' E on a random line bet. secs. 12 and 13

40.00 Set temp. 1/4 sec. cor.

80.02 Intersect the 4th Guide Meridian East. at the cor. of secs. 7, 12, 13 and 18, recently estab. by me & described in Standard Book "B" Thence & run

N 89° 55' W. on a true line bet. secs. 12 and 13,

Cor. level cultivated land.

15.00 Bars cultivated land, tran N and S. enter sage and greasewood brush undergrowth tran N and S.

40.01 Set an iron post. 3 ft. long 1 in. in diam 26 ins. in the ground for 1/4 sec. cor. marked on tran esp 1/4 S 12 on N half and S 13 on S. half.

Dig pits 18x18x12 ins. E and W. of post. 3 ft. dist. and raise a mound of earth 8 1/2 ft. base, 1 1/2 ft. high N. of cor.

44.00 Road to Oraibi Ariz tran NE and SW.

51.50 Right bank of the Oraibi Wash. 25 ft. high tran NE and SW.

52.25 Center of Oraibi Wash (dry) course SW.

53.00 Right bank of the Oraibi Wash 25 ft. high tran NE and SW.

59.00 Bars undergrowth tran N and S. enter cultivated land tran N. 4 chs and S. 6 chs. dist.

66.00 Bars cultivated land tran N. 5 chs., and S 7 chs. enter sage brush and greasewood undergrowth.

80.02 The cor. of secs. 11, 12, 13 and 14, heretofore described.

Land level.

Soil sandy and adobe 3rd and 4th rate.

No timber.

N 0° 01' W bet. secs. 11 and 12.

Cor. level sandy and adobe bottom land. Through sage

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- and greasewood brush undergrowth and bunch grass
- 6.00 Road to Oraibi Ariz head N.E. and S.W., enter cultivated land from E and W
- 40.00 Set an iron post 3ft. long 1 in. in diam. 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. marked on brass cap. $\frac{1}{4}$ S 11 on W. half and S 12 on E half.
- Dig pits 18x18x12 ins N. and S. of post. 3ft. dist. and raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high W. of cor.
- 46.00 Head cultivated land head N.E. 8 chs. and S.W. 10 chs dist
- 54.00 Head level land head N.W. and S.E., enter rolling sandy land head N.W. and S.E. ascend gradually over S.W. slope.
- 80.00 Set an iron post 3ft. long 2 in in diam. 24 ins. in the ground for cor. of sec. 1, 2, 11 and 12., marked on brass cap. T 29 N S. 2 in N.W. T 16 E. S 1 in N.E. S 12 in S.E. and S 11 in S.W. quadrant
- Dig pits 18x18x12 ins. in each. sec. 5 $\frac{1}{2}$ ft. dist and raise a mound of earth 4 ft. base 2ft. high. W. of cor
- Land level and rolling
- Soil sandy and adobe 3rd 106-
- No timber.

NOTE Ob. this cor. I set off. 9^h 02' N. on the decl. arc and at 12^h 00^m 39^{sec} p.m. level - observed the sun on the meridian the resulting latitude being 35^o 56' 41".

S 89° 55' E on a random line bet. sec. 1 and 12.

- 40.00 Set temp $\frac{1}{4}$ sec. cor.
- 80.18 Intersect the 4th Guide Meridian East. 5 lks. N. of the cor. of sec. 1, 6, 7 and 12, recently estab. by me and described in Standard Book "B"
- Thence I run
- N 89° 53' W. on a true line bet. sec. 1 and 12
- Over level cultivated land.
- 7.00 Head cultivated land head N.E. and S.W.
- 13.76 Road to Oraibi Ariz head N.E. and S.W.
- 24.00 Head level sandy and adobe land head N.E. and S.W. enter stony mountainous land head N.E. and S.W.
- 30.00 Begin abrupt rocky ascent over S.E. slope of mesa
- 40.09 Set an iron post 3ft long 1 in in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap $\frac{1}{4}$ S 1 on W half and S 12 on E half.
- Raise a mound of stone 2ft. base 1 $\frac{1}{2}$ ft. high N. of cor. Pits impracticable.

Claims

lines

9

- 53.40 Top of abrupt ascent on E. edge of mesa toward N.E. and S.W. -
- 53.70 West edge of mesa toward N.W. and S.E. desc. abruptly over N. slope.
- 62.50 Foot of abrupt descent toward mountainous land toward N and S. enter hilly land toward N and S.
- 80.18 This cor. of sects. 1, 2, 11 and 12 heretofore described. Land level hilly and mountainous. Soil sandy and stony 2nd 3rd and 4th rate. No timber.
- mountainous land 38.50 Chs.

- N 0° 01' W. on a random line bet. sects 1 and 2.
- 40.00 Set temp. 1/4 sec. cor.
- 79.88 Intersect N. line of Twp. 28 lkw. N 89° 59' W. of the cor. of sects, 1, 2, 35, and 36, recently estab. by me & described in Exterior Book "V" Thence I run
- S 0° 11' W. on a true line bet. sects 1 and 2, ascend N.E. slope over hilly sandy and stony land through scattering cedar timber and sage brush undergrowth.
- 2.00 Top of sand ridge toward N.E. and S.W. desc. gradually.
- 27.85 South edge of mesa toward hilly land toward N.E. and S.W. descend abruptly S. slope over stony mountainous land toward N.E. and S.W.
- 34.50 Foot of abrupt descent toward stony mountainous land and timber toward N.E. and S.W., enter hilly land toward N.E. and S.W. desc. gradually.
- 38.75 Dry ravine at foot of descent, course S.W. asc.
- 39.88 Set an iron post. 3 ft. long, 1 in. in diam. 26 ins. in the ground for 1/4 sec. cor. marked on base exp. 1/4 S 20 W. half and 31 on E. half.
- Dig pits 18x18x12 ins., N and S. of post 3 ft. dist, and raise a mound of earth 3 1/2 ft. tall, 1 1/2 ft. high, W. of cor.
- 67.25 Top of high sand ridge toward N.E. and S.W. desc.
- 74.25 Dry ravine, course S.W. asc. N.W. slope.
- 77.00 Top of sand ridge toward N.E. and S.W. desc.
- 79.88 This cor. of sects. 1, 2, 11 and 12, heretofore described. Land hilly and mountainous. Soil sandy and stony 3rd and 4th rate. Timber previous pine and cedar.
- mountainous land. 6.65 Chs.

April 13th 1909

BOOK 2597

- April 14th 1909 Ch 8^h 00^m a.m. l. m. l. - Decl - off $35^{\circ} 51\frac{1}{2}' N$.
on the lat. arc. $9^{\circ} 20\frac{1}{2}' N$. on the decl. arc. and determine
a meridian with the solar alt. the Stand. cor. of sec.
34 and 35¹ on the ^{recently re-estab. by me and described in Standard Book "C"} ~~Std. cor.~~ of T₁ 29 N. These I re-surveying
N $0^{\circ} 01' W$. bet. sec. 34 and 35-
- Over rolling sandy land through sage and greasewood
brush undergrowth.
- 2.00 Leave undergrowth bear N.E. and S.W.; enter cultivated
land bear N.E. and S.W.
- 18.50 Leave cultivated land bear N.E. and S.W.
- 19.00 Dry sand wash. 100 lks. wide banks 10 ft. high course S.W.
- 20.00 No trace of old $\frac{1}{16}$ sec. cor. can be found
- 40.00 Set an iron post. 3 ft. long 1 in. in diam., 26 ins. in the
ground for ^{re-established} ~~the~~ sec. cor. marked out bear exp $\frac{1}{4}$ S 34 on W.
half and S 35 on E half.
- Dig pits 18x18x12 ins. N and S. of post. 3 ft. dist. and raise
a mound of earth $3\frac{1}{2}$ ft. base. $1\frac{1}{2}$ ft. high. W. of cor.
No trace of orig. $\frac{1}{4}$ sec. cor. can be found.
- 42.25 Road from Piacca Ariz to Oraibi Ariz bear E. and W.
- 42.50 Wire fence bear E. and W. leave undergrowth bear E. and W.
enter cultivated field bear E. and W.
- 48.00 A point from which a stone house 30x15 ft. - bear S $80\frac{1}{2}' W$
275 lks. dist.
- The S.E. cor. of Frey's dwelling house bear N $66^{\circ} 43' W$
133 lks. dist.
- The S.W. cor. of an adobe house bear N $20^{\circ} 20' W$ 127 lks.
dist.
- The S.E. cor. of an adobe granary bear N $30^{\circ} 50' W$ 192
lks. dist.
- 50.75 A point 2 lks. E. of the S.E. cor. of Frey's Barn
- 60.00 No trace of old $\frac{1}{16}$ sec. cor. can be found.
- 64.00 The Oraibi Wash. 125 lks. wide, no water. Course
S $80^{\circ} W$.
- 67.75 Wire fence bear E. and W. leave cultivated field.
bear E. and W. enter sage and greasewood brush
undergrowth bear E. and W. begin gentle ascent on S. slope
- 78.00 Top of low sand ridge bear N.E. and S.W. desc. gently.
- 80.00 Set an iron post. 3 ft. long 2 ins. in diam. 24 ins.
in the ground for ^{re-established} ~~the~~ cor. of sec. 26, 27, 34 and 35
marked out bear exp. T 29 N S 27 in NW. R 16 E S 26
in N.E. S 35 in S.E. and S 34 in S.W. quadrants.
- Dig pits 18x18x12 ins. in each. sec. $5\frac{1}{2}$ ft. dist. and
raise a mound of earth 4 ft. base, 2 ft. high.
W. of cor. No trace of original cor. can be found.
- Land rolling.

Chains

11

Soil sandy 3rd rate.

No timber.

- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 79.96 Intersect N. and S. line at the ^{re-established} Cor. of secs. 25, 26, 35 and 36, heretofore described, Thence ^{re-surveying} West on a true line Feb. sec. 26 and 35, Over rolling sandy land through scattering sage and greasewood brush undergrowth.
- 19.99 No trace of old $\frac{1}{16}$ sec. cor. can be found.
- 39.98 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on base Cop. $\frac{1}{4}$ S 26 on N. half and S 35 on S. half. Dig pits 18x18x12 ins. E. and W. of post 3 ft. dist. and raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high N. of cor. No trace of orig. $\frac{1}{4}$ sec. cor. can be found.
- 58.00 The Crasbi Wash. 100 lbs. wide banks 10 ft. high.
- 59.97 Course S.W.
- 79.96 No trace of old $\frac{1}{16}$ sec. cor. can be found. The cor. of secs. 26, 27, 34 and 35, heretofore described. ^{re-established} Land rolling. Soil sandy 3rd rate. No timber.

- 0.25 Run $0^{\circ}01'$ W. Feb. sec. 26 and 27, resurveying, Over rolling sandy land through scattering sage and greasewood brush undergrowth.
- 20.00 Run rolling land base N.E. and S.W. enter level land. base N.E. and S.W. No trace of old $\frac{1}{16}$ sec. cor. can be found.
- 37.00 Run level land base N.E. and S.W. enter rolling sandy land base N.E. and S.W. ascend gently over S.E. slope.
- 40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground ^{re-established} for $\frac{1}{4}$ sec. cor. marked on base Cop. $\frac{1}{4}$ S 27 on W. half and S 26 on E. half. Dig pits 18x18x12 ins. N and S. of post 3 ft. dist. and raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high W. of cor. No trace of original $\frac{1}{4}$ sec. cor. can be found.
- 53.00 Road to Crasbi, Ariz base N.E. and S.W.
- 60.00 No trace of old $\frac{1}{16}$ sec. cor. can be found.
- 80.00 Set an iron post 3 ft. long 2 in. in diam. 24 ins. ^{re-established} in the ground for $\frac{1}{4}$ Cor. of secs. 22, 23, 26 and 27

BOOK 2597

marked on brass Cap T 29 N, S 22 in N.W. T 16 E S 23
in N.E. S 26 in S.E. and S 27 in S.W. quadrants.

Dig pits 18x18x12 ins. in each. rec 5 1/2 ft. dist. and
raise a mound of earth 4 ft. base 2 ft high W. of cor.
No trace of original cor. can be found.
Land rolling

Soil sandy and adobe 3rd rate.

No timber

NOTE. On this cor. I set off 9° 20' 1/4" on the decl. arc and
at 12^h 00^m 33^s p.m. I incl. observed the sun on the
meridian and obtain on the lat. arc. a reading
of 35° 53' N.

Each on a random line bet. sec. 23 and 26.

40.00 Set temp. to rec. cor.

80.00 Intersect N. and S. line 5 lks. S. of the ^{re-established} Cor. of sec.
23, 24, 25 and 26, heretofore described,

Thened Drum, resurveying,

S 89° 58' W. on a true line bet. sec. 23 and 26.

Over level sandy and adobe land, covered with scattering
sage and greasewood bush undergrowth.

8.25 The Oraibi Wash. 100 lks. wide banks, 20 ft. high.

20.00 ^{Ground} S.W. of old 1/16 sec. cor. can be found.

40.00 Set an iron post 3 ft. long 1 in. diam. 26 ins. in the
ground for 1/4 sec. cor. marked on brass Cap. 1/4 S 23
on N. half and S 26. on S. half.

Dig pits 18x18x12 ins. N and S. of post. 3 ft. dist. and

raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high.

N. of cor. No trace of original 1/4 sec. cor. can be found.

59.25 Road to Oraibi Ariz. brass N.E. and S.W.

60.00 No trace of old 1/16 sec. cor. can be found.

80.00 The Cor. of sec. 22, 23, 26 and 27, heretofore described.

^{re-established}
Land level.

Soil sandy and adobe 2nd and 3rd rate.

No timber.

N 0° 01' W. bet. sec. 22 and 23.

Over level sandy land through scattering sage and
greasewood bush undergrowth and bunch grass.

32.00 Level land toward N.E. and S.W. enter low rolling
sand hills toward N.E. and S.W. ascend S.E. slope.

40.00 Set an iron post 3 ft. long 1 in. diam. 26 ins. in
the ground for 1/4 sec. cor. marked on brass cap. 1/4

Claims

S. 22 on W. half and S 23 on E half.
Dig pits 18x18x12 ins N and S. of post. 3ft. dist. and
raise a mound of earth 3 1/2 ft base, 1 1/2 ft. high.
W. of cor.

- 67.50 Road to Oraibi Ariz bears N.E. and S.W.
74.00 Top of sand ridge bears N.W. and S.E. desc.
77.25 Dry ravine course S.E. asc.
80.00 Straw iron post 3ft. long 2 ins. in diam 2 1/2 ins.
in the ground for cor. of sec. 14, 15, 22 and 23
marked on base of T 29 N, S 15 in N.W. R16 E
S 14 in N.E., S 23 in S.E. and S 22 in S.W. quadrants.
Dig pits 18x18x12 ins. in each sec. 5 1/2 ft. dist
and raise a mound of earth 4 ft base 2 ft. high.
W. of cor.
Land level and hilly.
Soil sandy and adobe 2nd and 3rd rate.
No timber.

- N 89° 58' E. on a random line bet. sec. 14 and 23.
40.00 Sep temp. 4 sec. cor.
80.00 Intersect N and S. line 5 lbs. N. of the cor. of sec. 13
14, 23, and 24., heretofore described.
Thence S-run
Wash out a true line bet. sec. 14 and 23.
Over level sandy and adobe land, through sage and
greasewood bush undergrowth.
21.50 The Oraibi Wash 126 lbs. wide banks 25 ft. high.
Course S.W.
27.00 Road to Oraibi Arizona bears N and S.
40.00 Sep. an iron post 3ft. long 1 in. in diam. 2 1/2 ins.
in the ground for 1/2 sec. cor. marked on base
of 1/4 S 14 on N. half and S 23 on S half.
Dig pits 18x18x12 ins. E and W. of post. 3ft. dist., and
raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high, N. of cor.
42.00 Runs level land bears N.E. and S.W., enter rolling
sand hills bears N.E. and S.W., ascend gradually
over S.E. slope.
69.50 Road to Oraibi Ariz bears N.E. and S.W.
80.00 The cor. of sec. 14, 15, 22 and 23, heretofore described.
Land level and hilly.
Soil sandy and adobe 3rd rate.

No timber.

April 14th 1909

April 15th 1909
 Ch. 7^h 30^m a.m. l.m.t. Set off 35^h 54^m N,
 on the lat. arc 9442' N, on the decl. arc and determine
 a meridian with the solar at the cor. of sec. 14, 15
 22 and 23, heretofore described,

Thence Drive

N0°01' W. bet. sec. 14 and 15

Ascend S.E. slope over hilly sandy land, through
 scattering sage and greasewood bush undergrowth
 and bunch grass.

- 1.00 Top of sand ridge bears N.W. and S.E. desc N.E. slope.
 8.25 Dry ravine Course E. asc.
 12.50 Top of sand hill bears E. and W. desc.
 18.00 Dry ravine. Course S.E. asc. S.W. slope.
 23.00 Top of sand ridge bears N.W. and S.E. desc.
 28.50 Dry ravine Course E. asc.
 35.00 Top of sand ridge bears E. and W. desc.
 40.00 Set an iron post. 3ft. long 1 in. in diam. 26 ins.
 in the ground for cor. marked on brass cap
 14 S 15 on W. half and S 14 on E half.
 Dig pits 18x18x12 ins N. and S. of post. 3ft. dist. and
 raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of
 cor.
 51.25 Dry ravine Course S.E. asc
 59.00 Top of sand ridge bears N.W. and S.E. desc.
 65.00 Dry ravine Course S.E. asc.
 68.00 Top of sand ridge bears N.W. and S.E. desc
 70.50 Dry ravine Course E. asc.
 75.50 Top of sand ridge bears N.W. and S.E. desc.
 77.50 Dry ravine Course S.E. bears hilly land bears N.W.
 and S.E. Ascend abrupt rocky S.W. slope of mound
 over mountainous land bears N.W. and S.E.
 80.00 Set an iron post. 3ft. long 2 in. in diam. 24 ins.
 in the ground for cor. of sec. 10, 11, 14 and 15 marked
 on brass cap T 29 N, S 10 in N.W. R 16 E S 11 in N.E.
 S 14 in S.E. and S 15 in S.W. quadrant.
 Raise a mound of stone 2ft. base 1 1/2 ft. high W. of cor.
 Pits unpracticable
 Land hilly and mountainous.
 Soil sandy and stony 3rd and 4th rate.
 No timber.

Chains

Mountainous land. 2.50 Chs.

Cash on a random line bet. sec. 11 and 14.

40.00 Set temp. 1/4 sec. cor.
 80.06 Intersect Nord S. line at the Cor. of sec. 11, 12, 13 and 14,
 Thence Drun. (hereinbefore described)

West on a true line bet. sec. 11 and 14.
 Over level sandy and adobe bottom land, through
 scattering sage and greasewood brush undergrowth
 and bunch grass.

5.50 Road to Oraibi Ariz. bears N.E. and S.W.

12.50 Road to Oraibi Ariz. bears N. and S.,

14.00 Bears level land bears N.E. and S.W., enter hilly
 land bears N.E. and S.W. ascend gradually over
 S.E. slope.

40.03 Set an iron post 3ft. long 1 in in diam. 20 in in
 the ground for 1/2 sec. cor. marked out bears cap.
 1/4 S 11 on N. half and S 14 on S half.

Dig pits 18 x 18 x 12 in. East W. of post 3ft. dia. and
 raise a mound of earth 3 1/2 ft. high, 1 1/2 ft. high
 N. of cor.

50.50 Bears hilly land bears N.E. and S.W., enter stony
 mountainous land bears N.E. and S.W. ascend
 abruptly over S.E. slope of mesa.

80.06 The Cor. of sec. 10, 11, 14 and 15, hereinbefore described.
 Land level hilly and mountainous.
 Soil sandy, adobe and stony 2nd 3rd and 4th rate.
 No timber.

Mountainous land 29.50 Chs.

N 0° 01' W. bet. sec. 10 and 11,

Ascend abruptly rocky, S.E. slope of mesa over
 mountainous land.

3.00 Top of abrupt rocky ascent on S. edge of mesa
 100 ft. above cor. bears mountainous land bears
 East W., enter rolling sandy land bears E. and W.

3.25 Enter scattering pine and cedar timber
 bears E. and W.

11.75 North edge of mesa, bears rolling sandy land,
 bears N.W. and S.E., descend abruptly rocky N.E.
 slope over stony mountainous land bears N.W.
 and S.E.

12.00 Bears timber bears N.W. and S.E.

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Chains

- 27.25 Dry ravine Course N.E. asc.
 - 34.00 Pop of sand ridge bears N.E. and S.W. desc.
 - 39.00 Dry ravine Course N.E. asc.
 - 40.00 Set an iron post 3ft long 1 in. in diam 26 ins. in the ground for 1/4 sec. cor. marked on brass cap. 14 & 10 on W. half and 3 & 11 on E half. Dig pits 18x18x12 ins N and S of post. 3ft dist. and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high W. of cor.
 - 41.50 Pop of sand ridge bears N.E. and S.W. desc.
 - 70.75 Dry ravine Course S.E. asc. S.E. slope of mesa.
 - 79.00 Pop of abrupt ascent on S. edge of point of mesa bears N.W. and S.E., bears mountainous land bears N.W. and S.E., enter rolling land bears N.W. and S.E.
 - 80.00 Set an iron post 3ft long 2 in. in diam 24 ins. in the ground for cor. of sec. 2, 3, 10 and 11 marked on brass cap T₂₉ N, R₁₆ E, S₂ in N.E. S₁₁ in S.E. and S₁₀ in S.W. quadrant. Raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable. Land rolling and mountainous. Soil sandy and stony 3rd and 4th rate. Timber pinon pine and cedar Mountainous land. 70.25 elev.
- NOTE At this cor I set off 9° 45' N. on the decl arc and at 12^h 00^m 08^{sec} pm. Civil. observed the sun on the meridian and obtain on the lab. arc a reading of 35° 56' N.

SE

- 40.00 Set on a random line bet. sec. 2 and 11.
- 40.00 Set temp 1/4 sec. cor.
- 79.94 Intersect N and S. line 22 lbs. S. of the cor. of sec. 1, 2, 11 and 12, heretofore described, Thence I run S 89° 51' W. on a true line bet. sec. 2 and 11. Over rolling sandy land through sage and greasewood brush undergrowth and bunch grass.
- 11.75 Road to Oraibi Ariz bears N. and S.
- 37.00 Dry sand wash 60 lbs. wide 4 ft deep. Course S.E. ascend N.E. slope
- 39.97 Set an iron post 3ft long 1 in. in diam. 26 ins. in the ground for 1/4 sec. cor. marked on brass cap.

Chains

- 1/4 S 2 on W. half and S 11 on S half.
 Dig pits 18x18x12 ins E. and W. of post. 3ft. dia and
 raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high. W.
 of cor.
- 78.50 Leave rolling land bears N.E. and S.W. enter stony
 mountainous land bears N.E. and S.W. ascend abruptly over
 S.E. slope.
- 79.70 Top of abrupt rocky ascent on E. edge of mesa, leave
 stony mountainous land bears N.E. and S.W., enter
 rolling land bears N.E. and S.W.
- 79.94 The Cor. of secs. 2, 3, 10 and 11, herebefore described.
 Land rolling and mountainous.
 Soil sandy and stony 3rd and 4th rate.
 No timber
 mountainous land 1,20 chs.

- No 01 W. on a random line bet. secs 2 and 3
- 40.00 Set temp 1/4 sec. cor.
- 80.08 Intersect N. edge of Twp 18 l. N 89° 59' W. of the cor. of secs. 2
 3, 34. and 35, recently estab. by me & described in Exterior
 Book "V"
 Thence S run
- 80° 07' W. on a true line bet. secs. 2 and 3.
 Over rolling sandy land. through scattering sage
 and greenwood brush undergrowth and bunch grass.
- 1.50 Begin descend over S.W. slope over hilly land bears NW and S.E.
- 36.00 Dry ravine course E. asc.
- 38.50 Top of sand ridge bears E. and W. desc.
- 40.08 Set an iron post. 3ft. long in a hole 26 ins. in
 the ground for 1/4 sec cor. marked on bear Cap 1/4 S 3 on
 W. half and S 2 on E half.
 Dig pits 18x18x12 ins. N and S. of post. 3ft. dia. and
 raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high,
 W. of cor.
- 42.00 Dry ravine course N.E. asc
- 54.00 Top of sand ridge bears N.E. and S.W.
- 59.75 Depressive bears E and W. drains E. asc.
- 66.25 Top of sand ridge bears N.W. and S.E. desc. abruptly.
- 71.00 Foot of descent in rocky ravine course N.E. Leave
 hilly land bears N.W. and S.E. enter stony
 mountainous land bears N.W. and S.E. asc. abruptly

Chains

BOOK 2597

- 79.50 Top of abrupt rocky ascent on n. edge of mesa leave mountainous land bears N.W. and S.E. enter rolling land bears N.W. and S.E.
- 80.08 The cor. of secs. 2, 3, 10 and 11, heretofore described. Land rolling hilly and mountainous. Soil sandy and stony 3rd and 4th rates. No timber. Mountainous land 8.50 chs.

April 15th 1909

- April 16th 1909
Ch. 7^h 00^m a.m. ^{P.M.T.} S. 35° 51' 1/2" N. on the lat. arc, 10° 03' 1/2" N. on the decl. arc, and determine a meridian with the solar at the Stand. Cor. of secs. 33 and 34 on the S. side of the T₁, recently re-estab. by Thesee & Drue, resurveying, me and described in Standard Book "C"
- N 0° 02' W. bet. secs. 33 and 34
- Ascend S.E. slope over rolling sandy land through scattering sage and greasewood brush undergrowth and bunch grass.
- 20.00 No trace of old 1/4 sec. cor. can be found.
- 34.50 Old road bears N.W. and S.E. leads to Oraibi Ariz
- 40.00 Set an iron post 3 ft. long 1 in. in diam, 26 ins. in the ground for 1/4 sec. cor. marked on brass cap 1/4 33 on W. half and 3 34 on E. half.
- Dig pits 18 x 18 x 12 ins. N and S. of post 3 ft. dia. and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high. W of cor. No trace of original 1/4 sec. cor. can be found.
- From this cor. the school buildings in the town of Oraibi Ariz bears W. 15 chs. dist.
- 43.75 Road to Oraibi Ariz bears E. and W.
- 45.50 Road to Oraibi Ariz bears N.W. and S.E.
- 47.00 Leave undergrowth, enter cultivated land bears E. and W.
- 50.00 A rock house bears west 200 chs. dist.
- 51.50 Leave cultivated land bears E. and W. enter sage and greasewood brush undergrowth bears E. and W.
- 53.75 Road to Oraibi Ariz bears N.E. and S.W.
- 57.00 Top of sand ridge bears N.E. and S.W. descend gradually over N.W. slope.
- 58.50 Leave undergrowth, bears N.E. and S.W. enter cultivated land bears N.E. and S.W.
- 60.00 No trace of old 1/4 sec. cor. can be found.
- 60.50 Foot of descent in depression bears N.W. and S.E. drains S.E.

Chains

- ascend gradually over S.E. slope.
- 67.00 Leave cultivated land toward N.E. and S.W. enter sage and greasewood bush undergrowth toward N.E. and S.W.
- 80.00 Set an iron post 3 ft. long 2 ins. in diam. 24 ins. in the ground for ^{re-established} Cor. of secs. 27, 28, 33 and 34 marked on brass Cap. T 29 N 3 28 in N.W. R 16 E S 27 in N.E. & 34 in S.E. and 33 in S.W. quadrants. Dig pits 18x18x12 ins in each. Rec. 5 1/2 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W of cor. No trace of original cor. can be found.
Land rolling.
Soil sandy 3rd rate.
No timber
-
- 40.00 Set a random line bet. sec 27 and 34
- 80.02 Set a temp 4 sec. cor. ^{re-established} intersects N. and S. line abt. the Cor. of secs. 26, 27, 34 and 35 ^{heretofore described} ^{thence} drum, resurveying West on a true line bet. sec. 27 and 34
Over rolling sandy land through scattering sage and greasewood bush undergrowth and bunches of grass.
20.00 No trace of old 1/6 sec. cor. can be found.
- 20.75 Road to Charis, Ariz toward N.W. and S.E.
- 40.01 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for ^{re-established} 1/4 sec. cor. marked on brass cap 1/4 S 27 on N. half and 3/4 on S. half. Dig pits 18x18x12 ins. E and W. of post 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor. No trace of old 1/4 sec. cor. can be found.
- 48.75 Road to Charis, Ariz toward N.E. and S.W.
- 60.00 No trace of old 1/6 sec. cor. can be found.
- 80.02 ^{re-established} The Cor. of secs. 27, 28, 33, and 34, heretofore described.
Land rolling.
Soil sandy 3rd rate.
No timber
-
- 00.02 W bet. sec. 27 and 28; resurveying to 20.00
Descend gradually N. slope over rolling sandy land through sage and greasewood bush undergrowth
- 14.00 Dry ravine toward S.E., over S.W. slope.
- 17.50 Leave rolling sandy land toward E and W. enter stony

Chasms

BOOK 2597

- mountainous land bears E and W. ascend abruptly.
- 20.00 S slope of mesa
No trace of old $\frac{1}{16}$ sec. cor. can be found.
- 33.50 Top of abrupt ascent on S. edge of mesa, leave
stony mountainous land bears E and W., enter
rolling sandy land bears E and W.
- 40.00 See an iron post. 3 ft. long, 1 in. in diam. 26 in. in
the ground for $\frac{1}{4}$ sec. cor. marked on brass cap. $\frac{1}{4}$ S.
28 on W. half. and S 27 on E half.
Raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor.
Pits impracticable.
- 51.00 North edge of mesa leave rolling land bears E and W.
enter stony hilly land bears E and W. descend
abruptly over N. slope of mesa.
- 51.25 Enter peach orchard bears E and W.
- 55.00 Leave orchard bears E and W.
- 57.50 Foot of steep descent. Cross road to Indian village
at Craib. Ariz bears N.E. and S.W. - desc gradually
- 75.25 Wood road bears N.E. and S.W.
- 80.00 See an iron post. 3 ft. long 2 in. in diam. 24 in.
in the ground for cor. of sec. 21, 22, 27 and 28
marked on brass cap T 29 N. S 21 in N.W. R 16 E. S 22
in N.E. S 27 in S.E. and S 28 in S.W. quadrants.
Dig pits 18x18x12 in. in each sec. $5\frac{1}{2}$ ft. dist.
and raise a mound of earth 4 ft. base, 2 ft. high
W. of cor.
Land rolling hilly and mountainous.
Soil sandy and stony 3rd and 4th rate.
No timber. Mountainous land. 16.00 chd
- NOTE At this cor. I set off $10^{\circ} 06\frac{1}{2}'$ N. on the decl. arc
and at $11^{\text{h}} 59^{\text{m}} 55^{\text{s}}$ a.m. l.m.t. observed the sun on the
meridian, the resulting latitude being $35^{\circ} 58' 17''$.

East on a random line bet. sec. 22 and 27.

- 40.00 See temp $\frac{1}{4}$ sec. cor.
- 80.00 Intersect N and S. line 8 fms. S of the cor. of sec. 22
23, 26, and 27, ^{hereinbefore described} fence line
S $89^{\circ} 57'$ W. on a true line bet. sec. 22 and 27
Over rolling sandy land, through sage and greasewood.
bush undergrowth.
- 26.00 Leave rolling sandy land bears N.W. and S.E. ascend.
N.E. slope over hilly sandy land bears N.W. and S.E.
- 40.00 See an iron post. 3 ft. long 1 in. in diam. 26 in. in

Chains

the ground for $\frac{1}{4}$ sec. cor. marked on brass cap $\frac{1}{4}$ S. 22 on W half and S 27 on E half.
 Dig pits 18x18x12 ins. E and W. of post. 3 ft. dia. and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft high N. of cor.
 53.75 Road to Oraibi Indian Village bears N.W. and S.E.
 74.00 Road to Oraibi Indian Village bears N.E. and S.W.
 80.00 The cor. of secs. 21, 22, 27 and 28, heretofore described.
 Land rolling and hilly
 Soil sandy 3rd rate.
 No timber

N 0° 02' W. bet. secs 21 and 22
 Descend gradually N.E. slope over hilly sandy land, through sage and greasewood brush shrub growth and bunch grass
 23.25 Road bears N.W. and S.E. leads from Hotavilla Village to Oraibi, Ariz
 37.00 Dry sand wash 150 lbs. wide 3 ft. deep course S.E. ascend S.W. slope of sand ridge.
 40.00 Set an iron post 3 ft. long 1 in. in diam, 26 ins in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap $\frac{1}{4}$ S 21 on W. half and S 22 on E half.
 Dig pits 18x18x12 ins. N and S. of post 3 ft. dia. and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft high. W. of cor.
 48.00 Dry ravine 50 lbs. wide course S.W.
 61.50 The same ravine course S.E.
 71.50 The same ravine course S.W.
 80.00 Set an iron post 3 ft. long 2 in. in diam, 24 ins in the ground for cor. of secs. 15, 16, 21 and 22 marked on brass cap 'T 29 N 316 in N.W. R 16 E S 15 in N.E. S 22 in S.E. and S 21 in S.W. quadrants.
 Dig pits 18x18x12 ins. in each. Sec. 5 $\frac{1}{2}$ ft. dia. and raise a mound of earth 4 ft. base, 2 ft. high. W. of cor.
 Land hilly.
 Soil sandy 3rd rate.
 No timber.

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- N 89° 57' E on a random line bet. sec. 15 and 22
40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.10 Intersect N. and S. line 2 lks. N. of the cor. of sec.
14, 15, 22 and 23 heretofore described,
Thence down
S 89° 58' W. on a true line bet. sec. 15 and 22.
Descend S.W. slope over hilly land through sage
and greasewood brush and bunch grass.
- 4.25 Dry ravine 10 lks wide 4 ft. deep course S.E.
- 12.00 Pass hilly land bear N.E. and S.W., enter
stony mountainous land bear N.E. and S.W., ascend
abruptly over E. slope of mesa.
- 31.70 Top of abrupt rocky ascent on E. edge of mesa,
leave mountainous land bear N.E. and S.W., enter
rolling land bear N.E. and S.W.
- 40.05 Set an iron post 2 ft. long 1 in. in diam, 26
ins. in the ground for $\frac{1}{4}$ sec. cor. marked on brass
cop $\frac{1}{4}$ S 15 on N. half and S 22 on S half.
Raise a mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high.
N. of cor. Pits impracticable.
- 47.00 West edge of mesa leave rolling land bear N.W.
and S.E. enter stony mountainous land bear
N.W. and S.E. descend abruptly over S.W. slope
of mesa.
- 61.50 Foot of abrupt rocky descent in a ravine course
N.W. leave mountainous land bear N.W. and
S.E. enter hilly land bear N.W. and S.E. ascend
N.E. slope of sand ridge.
- 65.75 Top of sand ridge bear N.W. and S.E. desc. S.W. slope.
- 78.60 Dry ravine course S.W. asc.
- 80.10 The cor. of sec. 15, 16, 21 and 22, heretofore described.
Land rolling hilly and mountainous.
Soil sandy and stony 3rd and 4th rate.
No timber.

Mountainous land 34 20 Chs.

April 16th 1909

April 17th 1909
At 7^h 00^m am, ^{l. magt.} set off 35° 54' N.
on the lat. arc 10° 24' N. on the decl. arc and
determine a meridian with the solar alt. the
cor. of sec. 15, 16, 21 and 22, heretofore described,
Thence down
N 0° 02' W. bet. sec. 15 and 16.

Chain

- Ascend S.E. slope over hilly sandy land through
 sage and greasewood brush undergrowth and
 bunch grass.
- 32.60 Top of sand ridge bears N.E. and S.W. desc. N.W.
 slope.
- 39.75 Dry ravine course S.W. asc. S.E. slope.
- 40.00 Set an iron post 3ft long 1 in. in diam., 26 in. in
 the ground for $\frac{1}{4}$ sec. cor. marked on brass cap
 $\frac{1}{4}$ S 16 on W half and S 15 on E half.
 Dig pits 18x18x12 in. N and S, of post 3ft. dist.
 and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$
 ft high. W of cor.
- 40.25 Top of mesa bears hilly sandy land bears
 N.W. and S.E. ascend abrupt rocky S.W. slope.
 over mountainous land bears N.W. and S.E.
- 65.00 Top of abrupt rocky ascent on S. edge of mesa
 bears mountainous land bears N.W. and S.E.
 enter rolling sandy land and scattering
 pinion pine and cedar timber bears N.W.
 and S.E.
- 80.00 Set an iron post 3ft. long 2 in. in diam. 24
 in. in the ground for cor. of secs. 9, 10, 15 and
 16, marked on brass cap. T 29 N S 9 in N.W.
 R 16 E S 10 in N.E. S 15 in S.E. and S 16 in S.W.
 quadrant, from which.
 A cedar 8 in. in diam bears S $71\frac{3}{4}^{\circ}$ E 136 lbs. dist.
 marked T 29 N, R 16 E S 15 B.T.
 A cedar 4 in. in diam. bears S $50\frac{3}{4}^{\circ}$ W 187 lbs.
 dist. marked T 29 N R 16 E S 16 B.T.
 A cedar 8 in. in diam bears N $22\frac{1}{2}^{\circ}$ W. 250 lbs.
 dist. marked T 29 N R 16 E S 9 B.T.
 No other trees available.
 Dig pit 36x36x12 in. in sec. 10 $5\frac{1}{2}$ ft. dist.
 and raise a mound of earth 4 ft. base, 2 ft.
 high W. of cor.
 Land rolling hilly and mountainous.
 Soil sandy and stony 3^{rd} and 4^{th} rate.
 Timber pinion pine and cedar.
 Mountainous land. 24.75 Chs)
- 140.00 W $89^{\circ} 58' E$ on a random line bet. sec. 10 and 15
 Set temp. $\frac{1}{4}$ sec. cor.

BOOK 2597

80.02 Intersect n. and S. line 5 lks. N. of the cor. of sec.
10, 11, 14 and 15, heretofore described,
Thence I run

West on a true line bet. sec. 10 and 15

Ascend abrupt rocky S.E. slope of mesa on
mountainous land.

13.00 Top of abrupt rocky ascent on E. edge of mesa
leave mountainous land toward N.E. and S.W., enter
rolling sandy land, and scattering pinon pine and
cedar timber toward N.E. and S.W. ascend gradually.

38.00 Top of mesa, toward N.E. and S.W. descend gradually
over N.W. slope

40.01 Set an iron post 3ft. long 1 in. in diam., 26 in. in
the ground for $\frac{1}{4}$ sec. cor. marked on brass cap $\frac{1}{4}$
S 10 on N. half and S 15 on S. half, from which
A Cedar 8 in. in diam., toward N $6\frac{1}{4}^{\circ}$ E 201 lks. dist.
marked $\frac{1}{4}$ S 10 B.T.

A Cedar 6 in. in diam. toward S 1° E 120 lks. dist.
marked $\frac{1}{4}$ S 15 B.T.

80.02 The Cor. of sec. 9, 10, 15 and 16, heretofore described.
Land rolling and mountainous.

Soil sandy and stony 3rd and 4th rate.

Timber pinon pine and Cedar.

Mountainous land. 13.00 Chs.

W 0° 02' W. bet. sec. 9 and 10

Over rolling sandy mesa land through scattering
pinon pine and Cedar timber and brush grass

1.00 Top of sand ridge toward E and W. desc. N. slope.

13.25 Dry ravine toward N.E. asc.

18.00 Top of sand ridge toward N.E. and S.W. desc.

28.00 Foot of descent in depression toward N.E. and S.W. drains
to the N.E. ascend S.E. slope.

30.50 Leave sandy land toward N.E. and S.W. enter stony
land toward N.E. and S.W.

36.00 Top of ridge toward N.E. and S.W. desc. gradually

40.00 Set an iron post 3ft. long 1 in. in diam., 26 in. in
the ground for $\frac{1}{4}$ sec. cor. marked on brass cap $\frac{1}{4}$ S 9
on W. half and S 10 on E half. from which.

A Cedar 4 in. in diam. toward N $73\frac{3}{4}^{\circ}$ E 102 lks. dist.
marked $\frac{1}{4}$ S 10 B.T.

Chains

A cedar 4 in. in diam. bears S $19\frac{1}{2}^{\circ}$ W. 114 lbs. dist. marked $\frac{1}{4}$ S9 B.T.

42.25 North edge of mesa bears rolling land bears East W. enter stony mountainous land bears East W. descend abruptly over N. slope of mesa.

52.00 Dry ravine course N.E. bears timber bears N.E. and S.W. ascend steep S.E. slope.

55.00 Top of sand spur bears N.E. and S.W. desc.

57.00 Dry ravine course E. asc.

68.50 Top of sand spur bears N.E. and S.W. desc. N.W. slope.

72.00 Dry ravine course N.E. asc. steeply.

76.00 Top of spur bears N.E. and S.W. descend abruptly.

80.00 Set an iron post 3 ft. long 2 in. in diam 24 in. in the ground for cor. of sec. 3, 4, 9 and 10 marked on bears cap T 29 N 34 in NW. R16 E 33 in N.E. 310 in S.E. and 39 in S.W. quadrant.

Dig pits 18x18x12 in. in each. sec. 5 $\frac{1}{2}$ ft. dist. and raise a mound of earth 4 ft. base 2 ft. high. W. of cor.

Land rolling and mountainous.
Soil sandy and stony 3rd and 4th rate.
Timber pinon pine and cedar.
Mountainous land. 37.75 chs.

NOTE At this cor. Dreb off. $10^{\circ} 28'$ N on the decl. arc and at $11^{\text{h}} 59^{\text{m}} 40^{\text{sec}}$ am. local-observe the sun on the meridian the resulting latitude being $35^{\circ} 56' N$

Each on a random line bet. sec. 3 and 10.

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

80.14 Intersect N and S. line 14 lbs. N. of the cor. of sec. 2, 3, 10 and 11; heretofore described.

Thence D run
N $89^{\circ} 54'$ W. on a true line bet. sec. 3 and 10
Ascend E. slope over stony land

1.50 Top of rocky spur bears N. and S., descend abrupt rocky S.W. slope over mountainous land bears N. and S.

3.00 Top of sand stone ledge 25 ft. high bears NW. and S.E.

14.00 Bears stony land bears NW. and S.E. enter sandy land bears N.W. and S.E.

20.00 Foot of descent in depression bears NW. and S.E. drains to the S.E. ascend N.E. slope of spur.

- 26.50 Top of sand spur head NW. and SE. desc.
- 34.00 Foot of descent in depression head NW. and SE.
drains to the SE. ascend. NE. slope.
- 40.07 Set an iron post. 3ft. long in diam. 26 in. in
the ground for $\frac{1}{4}$ sec. cor. marked on brass cap $\frac{1}{4}$ S 3 on
N. half and S 10 on S half.
Dig pits 18 X 18 X 12 in. E and W. of post. 3ft. dia.
and raise a mound of earth 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high.
N. of cor.
- 41.50 Top of spur head N and S desc.
- 50.75 Dry ravine course SE. asc.
- 56.25 Top of sand ridge head NW. and SE. desc.
- 62.00 Dry ravine course NE. asc.
- 80.14 The cor. of sees. 3, 4, 9 and 10, heretofore described.
Land mountainous and rolling
Soil sandy and stony 3rd and 4th rate.
No timber -
Mountainous land. 78.64 Ch.

- N 0° 02' W. on a random line bet. sees 3 and 4
- 46.00 Set temp $\frac{1}{4}$ sec. cor.
- 79.96 Intersect N. ldy. of Twp. 32 lch. N 89° 59' W. of the cor.
of sees 3, 4, 33 and 34, recently estab. by me & described in
Thence Drive Exterior Book "V"
- S 0° 12' W. on a true line bet. sees 3 and 4
Over rolling sandy mesa land. through scattering
pines and cedar timber.
- 34.75 - South edge of mesa head rolling land and timber
head E and W. enter stony mountainous land
head E and W. descend abrupt S. slope of mesa over
cliffs and ledges.
- 39.96 Set an iron post. 3ft. long in diam. 26 in. in the
ground for $\frac{1}{4}$ sec. cor. marked on brass cap $\frac{1}{4}$ S 4 on
W half and S 3 on E half.
Raised mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high. W.
of cor. Pits impracticable.
- 54.75 Foot of abrupt rocky descent in dry ravine course
SE. ascend. NE. slope of spur.
- 65.00 Top of spur head E and W. desc.
- 67.50 Dry ravine course E. asc.
- 75.25 Top of spur head NW. and SE. desc. SW slope.
- 78.25 Dry ravine course E. asc.

Clearing

79.96 The cor. of sec. 3, 4, 9 and 10, heretofore described.
 Land rolling and mountainous.
 Soil sandy and stony 3rd and 4th rate.
 Timber juniper pine and cedar
 Mountainous land. 45.21 Ch.

April 17th 1909

1909
 April 19th Ch. 7^h 30^m am. Left Det. off. 35° 51 1/2' m.
 on the lat. arc. 11° 06 1/2' m. on the decl. arc. and
 determine a meridian with the solar alt. the
 Stand. Cor. of sec 32 and 33 on the S. base of
 the ^{recently} ~~by me~~ ^{by me} ~~described~~ ^{described} in Standard Book ^{of} ~~of~~
 the ^{thence} ~~thence~~ ^{run} ~~run~~
 N 0° 03' W. bet. sec 32 and 33.
 Ascend abruptly rocky S.E. slope of mesa over hilly land.
 16.00 Old road to Oraibi. Dry draw East W.
 26.00 Top of rocky ridge East East W. desc.
 34.75 Dry ravine course N.E. arc.
 38.00 Top of sand ridge East East W. desc steeply.
 40.00 The post for the 1/4 sec. cor. fell in the bottom of
 dry ravine course N.E., unsuitable for the establishment
 of a permanent cor. therefore I continue my line
 ascend S slope of ridge.
 41.00 Set an iron post 3ft. long 1 in. diam. 26 ins.
 in the ground for witness cor. to the 1/4 sec.
 cor. marked on brass cap T 29 N R 16 E S 32 on
 W half. S 33 on E half and W.C. 1/4 on S. half.
 Dig pits 18 x 18 x 12 ins. N and S. of post 3ft. dist.
 and raise a mound of earth 3 1/2 ft. base 1 1/2 ft.
 high W. of cor.
 46.00 Top of sand ridge East NE and SW. desc gently
 on NE. slope.
 46.40 Road from the town of Oraibi Ariz to the
 Indian Village East East W.
 71.00 Dry ravine course SE. Land hilly land East NW.
 and S.E., enter stony mountainous land East
 NW and SE. ascend abruptly over S. slope of mesa
 80.00 Set an iron post 3ft. long 2 ins. diam. 24 ins.
 in the ground for cor. of sec. 28, 29, 32 and 33
 marked on brass cap T 29 N S 29 in NW R 16 E
 S 28 in NE. S 33 in SE. and S 32 in SW. quadrant.
 Raise a mound of stone 2ft. base 1 1/2 ft. high.
 W. of cor. Pits impracticable.

Chain

BOOK 2597

From this cor. the N.E. cor. of a house in the Craib
Indian Village bears S 27° 30' W.
Land hilly and mountainous.
Soil sandy and stony 3rd and 4th rate.
No timber.
Mountainous land. 9.00 chs.

40.00 East on a random line bet. sec. 28 and 33.
Sub temp 1/4 sec. cor.
80.08 Intersect N and S. line 5 chs. N. of the ^{re-established} cor. of sec.
27, 28, 33 and 34, heretofore described,
Thence Drum; resurveying to 20.02,
N 89° 58' W. on a true line bet. sec. 28 and 33.

Ascend N.E. slope over hilly sandy land through
scattering Sage and greasewood bush, undergrowth
and bunch grass.
20.02 No trace of off. 1/4 sec. cor. can be found
40.04 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in
the ground for 1/4 sec. cor. marked on brass cap "1/4 S.
28 on N. half. and 33 on S. half.
Dig pits 18 x 18 x 12 in. E and W of post 3 ft. dist.
and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft.
high N. of cor.

42.50 Bears hilly land toward N.W. and S.E. enter stony
mountainous land toward N.W. and S.E. ascend abruptly.
E. slope of mesa.

45.00 Top of ascent, on mesa toward N.W. and S.E.

48.00 West edge of mesa toward N. and S. descend,
abruptly over cliffs and ledges.

56.00 Foot of abrupt rocky descent, in dry ravine
course S.E., ascend abruptly over S.E. face of mesa

80.08 The cor. of sec. 28, 29, 32 and 33, heretofore described.
Land hilly and mountainous.
Soil sandy and stony 3rd and 4th rate.
No timber.
Mountainous land. 37.58 chs.

N 0° 03' W. bet. sec. 28 and 29
Ascend abruptly rocky S. slope of mesa over mountainous
land.

3.00 Top of abrupt rocky ascent on S. edge of mesa
leave mountainous land toward E and W, enter

Chains

- rolling sandy and stony land bears E. and W. would gradually.
- 10.20 Road to the Craibi Indian Village bears N.E. and S.W.
- 20.00 Road to the Craibi Indian Village bears N.E. and S.W.
- 21.50 Enter Peach orchard bears N.E. and S.W.
- 30.25 Leave orchard bears N.E. and S.W.
- 30.30 Road to the Craibi Indian Village bears N.E. and S.W.
- 34.50 Top of sand ridge bears N.E. and S.W., enter Peach orchard bears N.E. and S.W., desc. N.W. slope of ridge.
- 40.00 Set an iron post 3ft. long 1 in. in diam. 26 ins. in the ground for the cor. marked on brass Cap. N 29° W half and S 28° W E half. Dig pits 18x18x12 ins. N and S. of post. 3ft. dia. and raise a mound of earth 3 1/2 ft. tall, 1 1/2 ft. high W. of cor.
- 62.25 Leave orchard bears N.E. and S.W.
- 70.25 North edge of mead bears N.E. and S.W. Leave rolling land bears N.E. and S.W. enter broken and lilly land bears N.E. and S.W., desc. steep N.W. slope of mead.
- 72.50 Dry ravine course N.E., enter Peach orchard bears N.E. and S.W. asc. S.E. slope of sand ridge
- 75.00 Top of sand ridge bears N.E. and S.W. leave orchard bears N.E. and S.W. desc. N.W. slope.
- 80.00 Set an iron post 3ft. long 2 ins. in diam. 24 ins. in the ground for cor. of sec. 20, 21 28 and 29, marked on brass Cap T 29 N S 20 in N.W. R16 E. S 21 in N.E. S. 28 in S.E. and S 29 in S.W. quadrants. Dig pits 18x18x12 ins. in each. sec 5 1/2 ft. dia. and raise a mound of earth 4 ft. base 2 ft. high. W. of cor. Land rolling lilly and mountainous. Soil sandy and stony 3rd and 4th rate. Prunus peach. Mountainous land 3.00 Chs.

NOTE On this cor. July 11th 10th M. on the decl. arc and at 11^h 59^m 13^{sec} am. C.M.C. observed the sun

BOOK 2597

on the meridian and obtain on the last arc a reading of 35° 53' N.

40.00 S 89° 58' E on a random line bet. sec. 21 and 28.
Set temp 1/4 sec. cor.

79.98 Intersect N. and S line 16 lbs. S. of the cor. of sec. 21, 22, 27 and 28, heretofore described,
Thence Run

S 89° 55' W, on a true line bet. Secs. 21 and 28.
Over rolling sandy land through scattering sage and greasewood brush and bunch grass.

16.50 Dry run 5 lbs. wide 2 ft. deep course N.E. ascend. N.E. slope.

37.25 Pop of sand ridges bears N.E. and S.W. desc.

39.99 Set an iron post 3 ft. long 1 in. in diam 26 in. in the ground for 1/4 sec. cor. marked on brass cap 1/4 S 21 on N half and S 28 on S half.

Dig pits 18 x 18 x 12 in sand W of post. 3 ft. dia. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high. N. of cor.

45.00 Post of descent in depression bears N.E. and S.W. drains to the N.E. side.

68.50 Pop of sand ridges bears N and S. desc. W. slope.

78.25 Dry run 16 lbs. course N.E. asc.

79.98 The cor. of sec. 20, 21, 28 and 29, heretofore described.
Land rolling and hilly.
Soil sandy 3rd rate.
No timber.

N 0° 03' W. bet. sec. 20 and 21

Descend N.E. slope of sand ridge over hilly sandy land through scattering sage and greasewood brush undergrowth.

4.20 Dry run 16 lbs. course N.E. ascend gradually.

10.00 Pop of sand ridges bears N.E. and S.W. desc.

12.00 bears undergrowth bears N.E. and S.W., enters cultivated land bears N.E. and S.W.

13.50 Dry sand wash. 40 lbs wide course N.E. asc. S. slope.

14.25 bears cultivated land bears N.E. and S.W.

32.00 Pop of rocky spur bears N.E. and S.W. desc.

40.00 Set an iron post 3 ft. long 1 in. in diam 26 in. in the

Chain

31

- ground for $\frac{1}{4}$ sec. cor. marked on brass cap $\frac{1}{4}$ S 20 on W half and S 21 on E half.
- Dig pits 18x18x12 ins. N and S of post 3 ft. dist. and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high. W of cor.
- 61.75 Dry ravine course N.E. asc. S slope of ridge.
- 66.25 Top of ridge trend N.E. and S.W. desc. gradually over N. slope
- 80.00 Set an iron post 3 ft. long 2 ins. in diam. 24 ins. in the ground for cor. of sec. 16, 17, 20 and 21. marked on brass cap T 29 N S 17 in N.W., R 16 E S 16 in N.E. S 21 in S.E. and S 20 in S.W. quadrants.
- Dig pits 18x18x12 ins. in each sec 5 $\frac{1}{2}$ ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high W of cor.
- Land lilly.
- Soil sandy 3rd rate.
- Timber scattering peach trees W. of line
-
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.02 Intersect N and S. line 18 lks. N of the cor. of sec. 15, 16, 21 and 22 ^{heretofore described} the new S. run
- N 89° 57' W. on a true line bet. sec. 16 and 21
- Ascend N.E. slope of sand ridge through scattering sage and greasewood brush undergrowth and bunch grass.
- 7.50 Top of sand ridge trend N.W. and S.E. desc over S.W. slope
- 15.50 Dry sand wash 50 lks. wide course S.E. asc.
- 19.75 Road from Hotanell Dubraw Villages to Clear Cr. Cr. trend N.W. and S.E.
- 30.00 Top of sand ridge trend N.W. and S.E.
- 40.01 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap $\frac{1}{4}$ S 16 on N. half and S 21 on S half.
- Dig pits 18x18x12 ins. E and W. of post 3 ft. dist. and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high. N of cor.
- 40.60 Dry sand wash. 40 lks. wide course S.E. ascend N.E. slope of sand ridge.
- 80.02 The cor. of sec. 16, 17, 20 and 21, heretofore described.
- Land lilly.
- Soil sandy 3rd rate.
- Water

April 19th 1909

BOOK 2597

- 1909
April 21st, Ah. 10^h 00^m am. C.M.T. Deb off. 35° 54' N, on the lat. arc. 11° 49' N, on the decl. arc. and determine a meridian with the solar at the cor. of secs. 16, 17, 20 and 21, ^{heretofore described} fence & run
- N 0° 03' W bet. secs 16 and 17.
Ascend S.E. slope over hilly sandy land through scattering sage and greasewood bush, undergrowth and bunch grass.
- 7.00 Top of sand ridge bears E. and W. desc.
27.50 Dry sand wash 30 lbs. wide course E. ascend S slope over stony land.
34.00 Top of rocky spur bears E. and W. desc.
35.00 Low stony land bears N.W. and S.E.
40.00 Set an iron post. 3 ft long 1 in. in diam. x 26 ins. in the ground. for ¹/₄ sec. cor. marked out brass cap ¹/₄ S 17 on W half and S 16 on E. half.
Dig pits 18x18x12 ins N. and S. of post. 3 ft. dist. and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high W of cor.
49.75 Dry ravine course S.E. asc.
54.00 Top of sand ridge bears N.W. and S.E. desc.
59.00 Dry ravine course S.E. asc.
73.25 Top of sand ridge bears N.W. and S.E. desc.
78.75 Dry ravine course S.E. asc.
80.00 Set an iron post. 3 ft. long 2 ins. in diam. 24 ins. in the ground for cor. of secs. 8, 9, 16 and 17. marked out brass cap - 7 29 N. 38 in N.W. R 16 E 39 in N.E. S 16 in S.E. and S 17 in S.W. quadrant.
Dig pits 18x18x12 ins. in each sec. 5 1/2 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high W of cor.
Land hilly.
Soil sandy and rocky 3rd and 4th rate.
No timber.

- S 89° 57' E on a random line bet. secs. 9 and 16.
40.00 Set temp ¹/₄ sec. cor.
80.20 Intersect N and S. line 3 lbs. S. of the cor. of secs 9, 10, 15 and 16, heretofore described,
Three D run
N 89° 58' W on a true line bet. secs 9 and 16.
Ascend E. slope over rolling sandy land, through scattering cedar and pinion pine timber.

chains

- 2.00 Top of low sand ridge bears N.E. and S.W. descend gradually over N.W. slope.
- 15.10 West edge of mesa, level rolling land bears N.W. and S.E. enter stony mountainous land bears N.W. and S.E. descend abruptly W. slope of mesa.
- 21.00 Level stony land and timber bears N.W. and S.E.
- 36.75 Foot of abrupt descent in dry ravine course S.W. leave mountainous land bears N.W. and S.E., enter hilly land bears N.W. and S.E. - ascend S.E. slope of sand ridge.
- 39.00 Top of sand ridge bears N and S desc.
- 40.10 Set an iron post 3 ft long 1 in. in diam. 26 ins. in the ground for 1/4 sec. cor. marked on bears Cop 1/4 S 9 on N. half and S 16 on S. half.
Dig pits 18 x 18 x 12 ins E and W. of post 3 ft dist. and raise a mound of earth 3 1/2 ft. diam. 1 1/2 ft. high. N. of cor.
- 42.50 Dry ravine course South asc.
- 45.00 Top of sand ridge bears N. and S desc.
- 45.76 Dry ravine course South asc.
- 52.50 Top of sand ridge bears N.W. and S.E. desc.
- 58.00 Road from Hotaville Indian Village to Oraibi Ariz bears N.W. and S.E.,
- 58.50 Dry ravine course South ascend E slopes.
- 75.75 Top of sand ridge bears N.W. and S.E. desc.
- 80.20 The cor. of sec. 8, 9, 16 and 17, heretofore described.
Land rolling hilly and mountainous.
Soil sandy and stony 3rd and 4th rate.
Timber juniper pine and cedar
Mountainous land. 21.65 Chs.

N 10° 03' W. bet. sec. 8 and 9.

Ascend S slope of sand ridge over hilly land through scattering sage and greasewood bush undergrowth and bunch grass.

- 6.00 Top of sand ridge bears N.W. and S.E. desc.
- 17.70 Deep dry ravine course S.E. asc.
- 21.00 Top of high sand ridge bears N.W. and S.E.
- 35.00 Road from Hotaville Indian Village to Oraibi Ariz bears N.W. and S.E.
- 35.05 Dry ravine course S.E. asc.
- 39.20 Top of ridge bears E and W. desc. steep N. slope

BOOK 2597

- 39.50 Enter scattering piñon pine and cedar timber
bear E. and W.
- 40.00 Set an iron post. 3/4 in. long 1 in. in diam. 26 ins. in
the ground for 1/4 sec. cor. marked on brass cap 1/4 S
8 on W half and 39, on E half, from which.
A cedar 10 ins. in diam. bear S 89 3/4° E 95 lbs. dist. marked
1/4 S 9 B.T.
A cedar 8 ins. in diam bear W 71, 78° W 124 lbs. dist.
marked 1/4 S 8 B.T.
- 42.50 Dry ravine Course E., bear hilly land bear E and W.
enter stony mountainous land bear E and W, ascend
abrupt rocky S. slope of mesa.
- 53.50 Top of abrupt rocky ascent on S. edge of mesa bear
mountainous land bear E and W. enter rolling
sandy mesa land bear E and W.
- 80.00 Set an iron post. 3/4 in. long 2 ins. in diam. 24 ins.
in the ground for cor. of sects. 4, 5, 8 and 9, marked
on brass cap T 29 N S 5 in N.W. R 16 E S 4 in N.E. S 9 in
S.E. and 38 in S.W. quadrants. From which.
A cedar 8 ins. in diam bear N 75 1/2° E 256 lbs. dist. marked
T 29 N R 16 E. S 4 B.T.
A cedar 5 ins. in diam bear S 55 1/2° E 120 lbs. dist. marked
T 29 N R 16 E. S 9 B.T.
A cedar 16 ins. in diam. bear S 13° W 239 lbs. dist. marked
T 29 N R 16 E S 8 B.T. and
A cedar 24 ins. in diam. bear N 32 1/2° W 152 lbs. dist. marked
T 29 N R 16 E S 5 B.T.
Land rolling hilly and mountainous.
Soil sandy and stony 3rd and 4th rate.
Timber piñon pine and cedar
Mountainous land. 11,000 chs.

S 89° 58' E

- run a random line bet. sects. 4 and 9.
- 40.00 Set temp. 1/4 sec. cor.
- 79.98 Intersect N. and S. line 16 lbs. N. of the cor. of sects. 3, 4,
9 and 10 ^{hereinbefore described.}
A ^{These} ^{Drum}
- N 89° 51' W. on a true line bet. sects. 4 and 9,
Ascend N.E. slope of spur over mountainous land, through
scattering sage brush undergrowth and brush grass
- 7.00 Top of spur bear N.E. and S.W. desc.
- 10.75 Dry ravine Course N. asc.

Chains

- 22.00 Enter stony land and scattering pinion pine and cedar timber bear N and S.
- 29.25 Dry ravine Course N. and S.
- 31.00 Top of spur bear N and S. desc.
- 35.00 Dry ravine Course N. and S.
- 37.00 Top of rocky spur bear N and S. desc.
- 39.99 Set an iron post 3 ft. long 1 in. in diam. 26 in. in the ground for 1/4 sec. cor. marked on brass cap 1/4 S 4 on N half and S 4 on S half. from which. A pinion pine 4 in. in diam. bear S 12° W 107 lks. dist. marked 1/4 S 9 B.T.
- No other trees available
- Place a mound of stone 2 ft base, 1 1/2 ft. high. N. of cor. Pits impracticable.
- 41.00 Dry ravine Course N. and S.
- 58.00 Top of abrupt ascent on E. edge of mesa. Leave mountainous land bear N.W. and S.E. enter rolling sandy land bear N.W. and S.E.
- 79.98 The cor. of secs. 4, 5, 8 and 9, heretofore described. Land rolling and mountainous. Soil sandy and stony 3rd and 4th rate. Timber pinion pine and cedar. Mountainous land. 58.00 Chs.

- No 03' W. on a random line bet. secs. 4 and 5.
- 40.00 Set temp. 1/4 sec. cor.
- 79.72 Intersect N. line of Twp. 12 lks. N 89° 59' W. of the cor. of secs. 4, 5, 32 and 33. ^{Tract of land for me and described in Exterior Book "V"} ~~Thence~~ ^{thence} Drum
- S 0° 02' W. on a true line bet. secs 4 and 5
- Ascend N.E. slope over stony land, through scattering pinion pine and cedar timber
- 23.00 Leave stony land bear N.W. and S.E., enter sandy land bear N.W. and S.E.
- 29.75 Top of sand ridge bear N.W. and S.E. descend gradually on S.W. slope.
- 39.72 Set an iron post 3 ft. long 1 in. in diam. 26 in. in the ground for 1/4 sec. cor. marked on brass cap 1/4 S 5 on W half and S 4 on E half. from which. A pinion pine 4 in. in diam. bear N 56 3/4° E 74 lks. dist. marked 1/4 S 4 B.T.
- A pinion pine 6 in. in diam. bear N 27 1/4° W 107 lks.

dist. marked $\frac{1}{4}$ S 5 B T.

7972 The cor. of secs 4, 5, 8 and 9, heretofore described.

Land rolling

Soil sandy and stony 3rd and 4th rate.

Timber previous pine and cedar.

NOTE Clouds obscured the sun at noon today rendering an observation for latitude impossible.

April 21st 1909

April 20th 1909
Ch. 7th 30^m Am^{l.m.t.} S reb off $35^{\circ} 51\frac{1}{2}'$ N. on
the labare. $11^{\circ} 27'$ N. on the decl. arc. and determine
a meridian with the solar alt. the Stand. Cor. of
secs. 31 and 32. on the S. Poly. of the N^o 29 N. R. 16 E. ^{recently estab. by} & described in
Thence Drive Exterior Book "C"

N $0^{\circ} 03'$ W. bet. secs 31 and 32

Over low rolling sand hills through scattering sage
and greasewood brush undergrowth, and bunch grass.

33.25 Road from Nuba Ariz to Oraibi Ariz bears N.E. and S.W.

38.25 Road from Nuba Ariz to Oraibi Ariz bears E and W.

40.00 Set an iron post. 3ft. long 1 in. diam. 26 ins. in the ground
for $\frac{1}{4}$ sec. cor. marked out bears Cap $\frac{1}{4}$ S 31 on W half and S 32
on E half.

Dig pits 18 x 18 x 12 ins N. and S. of post. 3ft. dist. and raise
a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high. W. of cor.

48.00 Top of sand ridge bears N.E. and S.W. desc.

50.20 Dry ravine course S.W. and S.E. slope.

50.25 Enter Peach orchard bears N.E. and S.W.

57.00 Top of sand ridge bears N.E. and S.W. desc.

60.30 Dry ravine course S.W. asc.

63.50 Rear Peach Orchard bears E and W.

67.50 Top of sand ridge bears N.E. and S.W. desc.

72.50 Dry ravine course S.W. asc.

75.60 Top of sand ridge bears N.E. and S.W. desc. N.W. slope

Enter cultivated land bears N.E. and S.W.

78.75 Dry ravine course S.W. asc.

80.00 Set an iron post. 3ft. long 2 in. diam. 24 ins. in the
ground for cor. of secs. 29, 30, 31 and 32, marked out
bears Cap T 29 N S 30 in N.W. R 16 E. S 29 in N.E. S 32 in
S.E. and S 31 in S.W. quadrant.

Raise a mound of stone 2ft. base, $1\frac{1}{2}$ ft. high. W. of cor.

Pits impracticable

Land hilly

Chain

Soil sandy 3rd and 4th rate.
Number peach.

East on a random line bet. sec. 29 and 32
40.00 Set temp. 1/4 sec. cor.
79.96 Intersect N and S line 5 lks. N. of the cor. of sec. 28, 29, 32 and 33 ^{herebefore described} ~~33~~ ^{thence} Drum
N 89° 58' W. on a true line bet. sec. 29 and 32.
Ascend abruptly over steep rocky S. slope of mesa over mountainous land.
20.50 Top of abrupt rocky ascent on edge of mesa leave stony mountainous land bear N 80° E and S 10° W., enter rolling mesa land bear N 80° E and S 10° W., ascend gradually on S.E. slope.
29.75 Road to the Ojibwa Indian Village bear N.E. and S.W. Enter peach orchard bear N.E. and S.W.
39.98 Set an iron post 3 ft. long 1 in. in diam., 26 in. in the ground for 1/4 sec. cor. marked on bear cap. 1/4 S 29 on N. half and S 32 on S half.
Dig pits 18x18x12 ins. East W. of post 3 ft. dist. and raise a mound of earth 3 1/2 ft. long, 1 1/2 ft. high. N. of cor. About this cor. the N.E. cor. of sand house, to which a bearing was taken from cor. sec. 28, 29, 32 and 33. bear S 29° 30' E.
47.75 Leave orchard bear N. and S.
60.00 Top mesa bear N.W. and S.E. desc S.W. slope.
61.50 Wood road bear N.W. and S.E.
71.80 West edge of mesa leave rolling land bear N 10° W and S 10° E., enter mountainous land bear N 10° W and S 10° E., descend abruptly over cliffs and ledges
76.00 Foot of abrupt rocky descent. leave mountainous land bear N.W. and S.E., enter hilly sandy land bear N.W. and S.E.
79.96 The cor. of sec. 29, 30, 31 and 32, herebefore described. Land rolling hilly and mountainous.
Soil sandy and stony 3rd and 4th rate.
Number peach.
Mountainous land 24.70 chs.

West on a random line bet. sec. 30 and 31
40.00 Set temp. 1/4 sec. cor.
80.06 Intersect W. bdy. of Twp. 5 lks. S. of the cor. of sec. 25

recently estab. by me & described in Exterior Book "W"
30, 31 and 32. Hence I run

S 89° 58' E on a true line bet. recs. 30 and 31

Descend S.E. slope over hilly sandy land through scattering
sage and greasewood bush undergrowth and bunch grass.

13.00 Dry sand wash 25 lbs. wide course South. asc.

19.00 Top of sand ridge head N and S. desc.

25.50 Dry sand wash 100 lbs. wide course South asc.

31.00 Top of sand ridge head N and S. desc.

36.25 Dry ravine course S.W. asc.

40.06 Set an iron post 3 ft. long, 1 in. in diam. 26 in. in
the ground for a rec. cor. marked on base of $\frac{1}{4}$ S 30
on N. half and S 31 on S half.

Dig pits 18 x 18 x 12 in. E and W. of post. 3 ft. dist. and
raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high N. of cor.

NOTE At this cor I set off 11° 30' $\frac{1}{2}$ N, on the decl. asc. and
at 11^h 59^m am limit observe the sun on the meridian
the resulting latitude being 35° 52' $\frac{1}{2}$ N.

42.50 Top of sand ridge head N.E. and S.W. desc.

45.00 Dry ravine course S.W. asc.

59.00 Top of sand ridge head N.E. and S.W. enter peach
orchard head N.E. and S.W. desc. S.E. slope of ridge

60.00 Leave orchard head N.E. and S.W.

62.50 Dry ravine course S.W. asc.

71.00 Top of sand ridge head N.E. and S.W., enter peach orchard
head N.E. and S.W. desc. S.E. slope of ridge.

74.00 Dry ravine course S.W. asc.

77.00 Leave peach orchard head N.E. and S.W.

80.06 The cor. of recs. 29, 30, 31 and 32, heretofore described.

Land hilly.

Soil sandy 3rd rate.

Timber peach.

N 0° 03' W. bet. recs. 29 and 30

Ascend S.W. slope of ridge over hilly sandy land.

10.00 Leave hilly land head N.W. and S.E. enter stony
mountainous land head N.W. and S.E., ascend abruptly
over S.W. slope of mesa.

16.80 Top of ascent on edge of mesa, leave mountainous
land head N.W. and S.E., enter rolling land head
N.W. and S.E.

40.00 Set an iron post 3 ft. long 1 in. in diam. 26 in. in the

Chain

ground for $\frac{1}{4}$ sec. cor. marked on brass cap $\frac{1}{4}$ S 30 on
W. half and S 29 on E. half.
Raise a mound of stone 2 ft base, $1\frac{1}{2}$ ft high. W. of
cor. Pits impracticable
48.25 Wood road bears N.W. and S.E.
62.00 Begin steep ascent on S.E. slope of ridge.
64.00 Top of steep rocky ascent. ascend gradually.
80.00 See an iron post. 3 ft. long 2 ins. in diam. 24 ins.
in the ground for cor. of sec. 19, 20 29 and 30.
marked on brass cap T 29 N 319 in. N.W. R 16 E S 20
in N.E. S 29 in S.E. and S 30 in S.W. quadrant
Raise a mound of stone 2 ft base, $1\frac{1}{2}$ ft high. W. of cor.
Pits impracticable.
Land rolling hilly and mountainous.
Soil sandy and stony 3rd and 4th rate.
No timber

Mountainous land. 680 Chs.

S 89° 58' E on a random line bet. sec. 20 and 29
40.00 See temp. $\frac{1}{4}$ sec. cor.
80.12 Intersect, N and S. line 5 lks. N. of the cor. of sec. 20
21, 28 and 29 ^{heretofore described} ~~thence~~ ^{thence} ~~drum~~
N 89° 56' W. on a true line bet. sec. 20 and 29.
Ascend S.E. slope of sand ridge over hilly land through
sage and greasewood bush undergrowth and bunch grass.
6.00 Top of sand ridge bears N.E. and S.W. desc.
9.00 Leave undergrowth, enter cultivated land bears N.E.
and S.W.
10.00 Foot of descent in depression bears N.E. and S.W. drains
to N.E. side.
16.00 Leave cultivated land bears N.E. and S.W., enter sage
bush undergrowth bears N.E. and S.W.
20.50 Top of sand ridge bears N.E. and S.W. desc.
23.50 Leave undergrowth bears N.E. and S.W., enter cultivated
land bears N.E. and S.W.
24.00 Enter peach orchard bears N.E. and S.W.
27.00 Depression bears N.E. and S.W. drains to the N.E. side.
33.00 Leave cultivated land and orchard bears N.E. and
S.W. enter sage bush undergrowth bears N.E. and S.W.
40.06 See an iron post. 3 ft. long 1 in. in diam. 26 ins. in the
ground for $\frac{1}{4}$ sec. cor. marked on brass cap $\frac{1}{4}$ S 20 on
N. half and S 29 on E. half.
Dig pits 18x18x12 ins. East W. of post. 3 ft. dist. and.

- 45.00 Raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high N. of cor.
Leaves hilly sandy land. at foot of mesa bears N.E. and
S.W., ascend abruptly rocky S.E. slope of mesa over
mountainous land bears N.E. and S.W.
- 50.00 Top of abrupt rocky ascent, leave mountainous land
bears N.E. and S.W., enter rolling land bears N.E. and
S.W.
- 50.50 Enter peach orchard bears N.E. and S.W.
- 71.25 Leave peach orchard bears N.E. and S.W.
- 77.00 Leave sandy land bears N.E. and S.W., enter stony
land bears N.E. and S.W.
- 80.12 The cor. of secs. 19, 20, 29 and 30, heretofore described.
Land rolling hilly and mountainous.
Soil sandy and stony 3rd and 4th rate.
Plants peach.
Mountainous land. 5.00 Chs

- N 89° 58' W, on a true line bet. secs. 19 and 30
40.00 Set temp. 4 sec. cor.
- 80.06 Intersect W. bdy. of N. 8 lks. N. of the cor. of secs. 19
recently estab. by the and described in Exterior Book "W"
24, 25, and 30, Thence S run
- N 89° 59' E on a true line bet. secs. 19 and 30.
Ascend S.W. slope of ridge over hilly sandy land through
scattering sage and greasewood brush and bunch grass.
- 4.00 Top of sand ridge bears N.E. and S.W. desc. N.E. slope.
- 8.50 Dry ravine ch. foot of mesa course S.W., leave hilly
land bears N.W. and S.E., enter stony mountainous
land bears N.W. and S.E. Ascend abruptly over cliffs
and ledges.
- 22.50 Top of abrupt ascent on W. edge of mesa, leave
mountainous land bears N.W. and S.E., enter rolling
land bears N.W. and S.E. ascend gradually.
- 27.50 Wood road bears N. and S.
- 40.06 Set an iron post 3 ft. long 1 in. in diam. 26 in. in the
ground for 4 sec. cor. marked on bear cap. 1/4 319 on N
half and 330 on S half.
Raise a mound of stone 2 ft. base, 1 1/2 ft. high. N. of cor.
Rts. impracticable
- 41.00 Leave rolling land bears N.W. and S.E. enter hilly stony
land bears N.W. and S.E. ascend steep N.W. slope.
- 42.00 Top of steep rocky ascent, leave hilly land bears N.E.
and S.W., enter rolling land bears N.E. and S.W.

Chain

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- 60.00 Leave rolling land bear N.W. and S.E. desc. N.E. slope over broken stony land bear N.W. and S.E.
- 80.06 The cor. of secs. 19, 20, 29 and 30, heretofore described. Land rolling hilly broken and mountainous. Soil sandy and stony 3rd and 4th rate. No timber
- Mountainous land 14.00 chs. April 20th 1909
- April 21st ¹⁹⁰⁹ Ch. 7^h 00^m a.m. ^{l.m.t.} Desc. off. 35° 53' N, on the lat. arc. 11° 47' N, on the decl. arc. and determine a meridian with the solar ob. the cor. of secs. 19, 20, 29 and 30 ^{heretofore described} Thence Drive
- N 0° 03' W, bet. sec. 19 and 20.
- Descend steep rocky N.E. slope over broken stony land.
- 3.00 Leave broken stony land bear N.W. and S.E. enter hilly sandy land bear N.W. and S.E.
- 29.00 Dry ravine course N.E. ascend steeply.
- 35.00 Top of sand ridge bear N.E. and S.W. desc. steeply
- 40.00 Set an iron post 3 ft. long 1 in. in diam, 26 in. in the ground for 1/4 sec. cor. marked on bear Cap. 1/4 S 19 on W half and S 20 on E half.
- Dig pits 18 x 18 x 12 in. N and S of post. 2 ft. dia, and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high. W. of cor.
- 50.00 Dry ravine course N.E. ascend steeply.
- 52.00 Top of sand hill bear N.E. and S.W. desc.
- 53.50 Dry ravine at foot of mesa. Course E. Leave hilly land bear E and W., enter stony mountainous land bear E and W. ascend abruptly over S. slope of mesa.
- 73.00 Top of abrupt ascent on S edge of mesa. Leave stony mountainous land bear E and W, enter rolling sandy mesa land bear E and W. desc. N.E. slope.
- 80.00 Set an iron post 3 ft. long 2 in. in diam, 24 in. in the ground for cor. of secs. 17, 18, 19 and 20 marked on bear Cap T 29 N. S 18 in N.W. R 16 E S 17 in N.E. S 20 in S.E. and S. 19 in S.W. quadrant, Raise a mound of stone 2 ft. base 1 1/2 ft. high. W. of cor. Pits impracticable
- Land rolling hilly and mountainous. Soil sandy and stony 3rd and 4th rate. No timber.
- Mountainous land 19.50 chs

Chain

BOOK 2597

89°56' E on a random line bet. sec. 17 and 20.
40.00 Set temp. 1/4 sec. cor.
80.20 Intersect N and S. line 16 lks. S. of the cor. of sec. 16.
17.20 ^{heretofore described} _{and 21} Thence Drum

89°57' W. on a true line bet. sec. 17 and 20.
Ascend E. slope over rolling sandy land through
sage and greasewood bush undergrowth and bunch grass.
40.10 Set an iron post. 3 ft. long, 1 in. in diam. 26 in. in
the ground for 1/4 sec. cor. marked on brass cap. 1/4 S 17
on N. half and S 20 on S. half.

Dig pits 18x18x12 in. E and W of post. 3 ft. deep, and
raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high. N. of cor.
63.00 Foot of mesa, leave rolling land head N.W. and S.E.
enter mountainous land head N.W. and S.E., ascend,
abruptly.

80.20 The cor. of sec. 17, 18, 19 and 20, heretofore described.
Land rolling and mountainous.
Soil sandy 3rd rate.
No timber.
Mountainous land. 17, 20 chs.

April 21st 1909

1909
April 22nd ^{l.mt.} Ah. 8^h 00^m am, ^{l.mt.} Set off 35°54' N.
on the lat. arc 12°08' N, on decl. arc, and determine
a meridian with the solar at the cor. of sec. 17, 18
19 and 20 ^{heretofore described} _{and 20} Thence Drum

89°59' W. on a random line bet. sec. 18 and 19.
40.00 Set temp. 1/4 sec. cor.

79.96 Intersect W. l. dry of N. 16 lks. N. of the cor. of sec.
13, 18, 19 and 24 ^{recently estab. by method described in Exterior Book "W"} _{and 24} Thence Drum

89°52' E on a true line bet. sec. 18 and 19
Over rolling sandy mesa land, through scattering
sage bush undergrowth.

10.00 Enter scattering cedar timber head N.E. and S.W.
30.00 Leave timber head N and S.

39.96 Set an iron post. 3 ft. long, 1 in. in diam. 26 in. in the
ground for 1/4 sec. cor. marked on brass cap. 1/4 S 18
on N. half and S 19 on S. half

Dig pits 18x18x12 in. E and W of post. 3 ft. deep.
and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high.
N. of cor.

79.50 East edge of mesa, leave rolling land head N.W. and

Chains

- S.E., enter mountainous land bears N.W. and S.E.
 descend abruptly over N.E. slope.
- 79.96 The cor. of sect. 17, 18, 19 and 20, heretofore described.
 Land rolling and mountainous.
 Soil sandy 3rd and 4th rate.
 Timber Cedar.
 Mountainous land .046 ch.
-
- N 0° 03' W. bet. sect 17 and 18.
 Descend abruptly N.E. slope over mountainous land through
 sage brush undergrowth and bunch grass.
- 8.00 Enter peach orchard bears E and W.
 12.00 Leave peach orchard bears E and W.
 17.00 Dry ravine course N.E. asc. steeply.
 19.00 Top of spur bears N.E. and S.W. desc.
 34.00 Foot of descent in dry ravine course N.E. ascend, steeply
 39.00 Top of sand spur bears N.E. and S.W. desc.
 40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the
 ground for 1/4 sec. cor. marked on bear cap. "4 S 18 on W.
 half and S 17 on E half.
 Dig pits 18x18x12 in N and S. of post 3 ft. dist. and
 raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high. W. of
 cor.
- 42.50 Dry ravine at foot of mesa, course East, ascend abruptly
 50.00 Enter scattering pinion pine and cedar timber, bears
 E and W.
- 61.40 Top of abrupt rocky ascent on S. edge of mesa, leave
 stony mountainous land bears E and W., enter
 rolling sandy mesa land, bears E and W.
- 80.00 Set an iron post 3 ft. long 2 in. in diam. 24 ins.
 in the ground for cor. of sect. 7, 8, 17 and 18, marked
 on bear cap T 29 N. S 7 in N.W. T 16 E S 8 in N.E. S 17 in
 S.E. and S 18 in S.W. quadrants, from which,
 A cedar 4 in. in diam. bears N 53 1/2° E 64 lbs. dist. marked
 T 29 N. R 16 E S 8 B.T.
 A cedar 6 in. in diam. bears S 68 1/2° E 126 lbs. dist. marked
 T 29 N R 16 E S 17 B.T.
 A cedar 8 in. in diam. bears S 33 1/2° W. 71 lbs. dist. marked
 T 29 N. R 16 E S. 18 B.T. and
 A cedar 4 in. in diam. bears N 29 1/2° W 104 lbs. dist.
 marked T 29 N. R 16 E. S. 7 B.T.

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Claims

BOOK 2597

Land rolling and mountainous.
Soil sandy and stony 3rd and 4th rate.
Timber pinion pine, peach, and cedar.
Mountainous land. 6140 chs.

40.00 W 89° 57' E on a random line bet. sec. 8 and 17
Set temp. 1/4 sec. cor.

79.96 Intersect. N. and S. line 14 lks. S. of the cor. of sec. 8, 9,
heretofore described
16 and 17, thence S run.

W 89° 51' W. on a true line bet. sec. 8 and 17,

Ascend steep E. slope of mesa over mountainous
land.

18.00 Top of steep ascent on E. edge of mesa, 150 ft. above
cor., leave mountainous land head N. and S., enter
rolling sandy mesa land and scattering pinion pine
and cedar timber head N. and S.

39.98 Set an iron post 3 ft long 1 in. in diam. 26 in. in the
ground for 1/4 sec. cor. marked on brass cap 1/4 S 8 on N. half
and S 17 on S half. From which

A cedar 4 in. in diam head N 48 1/2° W 260 lks. dist.
marked 1/4 S 8 B.T.

A cedar 6 in. in diam, head S 34 1/2° W. 94 lks. dist.
marked 1/4 S 17 B.T.

NOTE Wh. this cor. I set off 12° 11' N. on the decl. arc and
at 11^h 58^m 35^{sec} am. l.m.t. observed the sun on the meridian
and obtain on the lab. arc a reading of 35° 55' N.

46.50 Top of low sand ridge head N.W. and S.E. desc. gently

79.96 To cor. of sec. 7, 8, 17 and 18, heretofore described.

Land rolling and mountainous.

Soil sandy 3rd and 4th rate.

Timber pinion pine and cedar.

Mountainous land 1800 chs.

40.00 W 89° 52' W. on a random line bet. sec. 7 and 18.
Set temp. 1/4 sec. cor.

79.80 Intersect. W. line, of Twp. 10 lks. S. of the cor. of sec. 7, 12,
recently estab. by me and described in Exterior Book "W"
13 and 18, thence S run

W 89° 56' E on a true line bet. sec. 7 and 18.

Over rolling sandy land in cultivated field.

15.00 Leave cultivated land head N.E. and S.W. enter
scattering pinion pine and cedar timber head

Chain

- N.E. and S.W.
- 15.25 Dry ravine Course N.W. sec.
- 20.50 Top of sand ridge bears N.E. and S.W. desc. gently.
- 30.00 Road from Holterville Indian Village to Oraibi, Ariz. bears N.W. and S.E.
- 39.80 Set an iron post 3ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap "487 on N. half and 318 on S. half from which.
 A cedar 4 ins. in diam., bears N $3\frac{1}{4}^{\circ}$ E 103 lbs. dist., marked "4 S. 7 B.T.
 A cedar 4 ins. in diam., bears S $13\frac{1}{4}^{\circ}$ E 136 lbs. dist., marked "4 S. 18 B.T.
- 51.00 Foot of descent in depression bears N.E. and S.W. drains to the S.W. ascends gently.
- 56.00 Top of sand ridge bears N.E. and S.W. desc. gently.
- 77.00 Road from Holterville Indian Village to Oraibi, Ariz. bears N.E. and S.W.
- 79.80 The cor. of secs. 7, 8, 17 and 18, hereinbefore described.
 Land rolling.
 Soil sandy 3rd rate.
 Timber pinon pine and cedar.
-
- N^o 03 W. Secs. 7 and 8.
 Over rolling sandy mesa land through scattering pinon pine and cedar timber.
- 2.50 Road from the Holterville Indian Village to Oraibi, Ariz. bears N.E. and S.W.
- 18.00 Top of low sand ridge bears N.E. and S.W. desc.
- 40.00 Set an iron post 3ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap "487 on W. half and 38 on E. half, from which.
 A pinon pine 8 ins. in diam., bears S $19\frac{3}{4}^{\circ}$ E 51 lbs. dist., marked "4 S. 8 B.T.
 A pinon pine 4 ins. in diam. bears N. 66° W. 166 lbs. dist., marked "4 S. 7 B.T.
- 43.25 Dry ravine Course N.W. sec.
- 56.00 Top of ridge bears N.E. and S.W. desc. N.W. slope.
- 80.00 Set an iron post 3ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 5, 6, 7 and 8. marked on brass cap T 29 N. 36 in N.W. T 16 E. S 6 in N.E. S 8 in S.E. and S 7 in S.W. quadrants. from which.

BOOK 2597

A pinon pine 8 ins. in diam. bears N41 $\frac{1}{2}$ ° E 153 lks. dist. marked T₂₉M, R₁₆E S 5 B.T.

A cedar 6 ins. in diam. bears S 74° E 206 lks. dist. marked T₂₉M, R₁₆E. S 8 B.T.

A cedar 6 ins. in diam bears S 41° W. 54 lks. dist. marked T₂₉M R₁₆E. S. 7. B.T.

A pinon pine 8 ins. in diam. bears N 8 $\frac{3}{4}$ ° W 50 lks. dist. marked T₂₉M, R₁₆E S. 6 B.T.

Land rolling.
Soil sandy 3rd rate.
Timber pinon pine and cedar

April 22 1909

April 23rd 1909
 7^h 45^m a.m. l.m.t. Set off 35^h 56^m N. on the lat. arc 12^h 28^m N. on the decl. arc. and determine a meridian with the solar at the cor. of sec. 5, 6, 7 and 8, ^{heretofore described} Thence S run

N 89° 51' E on a random line bet. sec. 5 and 8.

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

79.88 Intersect N and S. line 3 lks. S. of the cor. of sec. 4, 5, 8 and 9, ^{heretofore described} Thence S run

S 89° 50' W. on a true line bet. sec. 5 and 8.

Descend W. slope over rolling sandy mesa land through scattering pinon pine and cedar timber.

22.00 Top of recent in depression bears N and S., drain south ascend gradually over E. slope.

22.50 Hear sandy land bears N and S., enter stony land bears N. and S.

26.00 Hear stony land bears N and S., enter sandy land bears N and S.

39.94 Set an iron post 3 ft long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap. 14 S. 5 on N. half and 38 on S. half, from which a cedar 5 ins. in diam. bears N 44° W 20 lks. dist. marked $\frac{1}{4}$ S 5 B.T.

A cedar 6 ins. in diam. bears S 21 $\frac{1}{2}$ ° E 71 lks. dist. marked $\frac{1}{4}$ S. 8 B.T.

46.00 Top of sand ridge bears N.E. and S.W. descend gradually over N.W. slope.

79.88 The cor. of sec. 5, 6, 7 and 8, heretofore described.

Land rolling

Soil sandy and stony 3rd and 4th rate.

Chains

Timber prairie pine and cedar.

- 40.00 S89°56' W, on a random line bet. sec. 6 and 7,
 1/4 sec. cor.
- 79.70 Intersect W. bdy. of Twp. 8 lks. S. of the cor. of sec.
 recently estab. by the aptly described in Exterior Book "U"
 1.6.7 and 12, Thence True
 N89°59' E on a true line bet. sec. 6 and 7
 Ascend N.W. slope over hilly sandy land through
 scattering prairie pine and cedar timber and sage
 brush undergrowth
- 2.50 Top of sand ridge bet. N.E. and S.W. desc.
- 6.00 Dry ravine course North asc.
- 8.00 Top of sand ridge bet. N and S. desc.
- 23.00 Dry ravine 100 lks. wide 4 ft. deep course N.W.
 asc.
- 39.70 Set an iron post 3 ft. long 1 in. in diam. 26 ins.
 in the ground for 1/4 sec. cor. marked on brass cap
 1/4 S 6 on N. half, and S 7, on S. half. from which
 A cedar 4 ins. in diam. bears N 48 1/4° E 84 lks. dist,
 marked 1/4 S 6 B.T.
- A cedar 4 ins. in diam. bears S 2 1/2° E 73 lks. dist,
 marked 1/4 S 7 B.T.
- 62.00 Leave hilly sandy land bears N.W. and S.E., enter
 stony mountainous land bears N.W. and S.E., ascend
 abruptly over cliffs and ledges
- 66.00 Top of abrupt rocky ascent on W. edge of mesa
 leave mountainous land bears N.W. and S.E., enter
 rolling sandy mesa land bears N.W. and S.E.
- 79.70 The cor. of Secs. 5, 6, 7 and 8, heretofore described.
 Land rolling hilly and mountainous.
 Soil sandy and stony 3rd and 4th rate.
 Timber prairie pine and cedar.
 Mountainous land 4.00 chs-

- 40.00 N90°03' W, on a random line bet. sec. 5 and 6.
 1/4 sec. cor.
- 79.94 Intersect N. bdy. of Twp. 18 lks. N89°59' W. of the cor. of
 recently estab. by the aptly described in Exterior Book "V"
 Secs. 5, 6, 31 and 32, Thence True

BOOK 2597

- S $0^{\circ} 05' W$. on a true line bet. sees 5 and 6.
 Ascend abrupt rocky N.E. slope over mountainous
 land. through scattering piñon pine and cedar timber
 10.00 Leave mountainous land bears N.W. and S.E., enter
 rolling sandy mesa land bears N.W. and S.E.
 38.50 Top of ridge bears N.E. and S.W. decl. S.E. slope.
 39.94 Set an iron post. 3 ft. long 1 in. in diam, 26 ins in
 the ground for $\frac{1}{4}$ sec. cor. marked on brass cap $\frac{1}{4}$ S 6
 on W half and 35 on E half. from which.
 A piñon pine 4 ins. in diam. bears S $49^{\circ} E$ 161 lks.
 dist. marked $\frac{1}{4}$ S. 5 B.T.
 A cedar 5 ins. in diam. bears S $55^{\circ} \frac{3}{4} W$ 109 lks. dist.
 marked $\frac{1}{4}$ S 6 B.T.
 67.00 Dry ravine Course W, ascend $\frac{1}{2}$ slope.
 79.94 The cor. of sees. 5, 6, 7 and 8, heretofore described.
 Land rolling and mountainous.
 Soil sandy and stony 3rd and 4th rate.
 Timber piñon pine and cedar.
 Mountainous land 10.00 Chs.
 NOTE Ch this cor. D sch off. $12^{\circ} 31' N$, on the decl. arc and
 at 11^h 58^m 23^{sec} am, ^{limits} observed the sun on the meridian
 the resulting latitude being $35^{\circ} 56' N$.

April 23rd 1909

General Description

This township contains every variety of land from level to mountainous, the soil ranging from stony to sandy and adobe loam. The soil of the bottom land along the Oraibi Wash which flows in a southerly direction through the eastern part of the township is good agricultural land and is being farmed to a limited extent at the present time by the Indians living in the Village of Oraibi, without the aid of irrigation. The soil of the remaining portion of the township is either stony or loose sand and can nearly all be classed as 3rd or 4th rate, is covered with a scanty growth of sage and greasewood bush and bunch grass. The greater portion of this land excepting the stony portion will produce light crops of different kinds which mature quickly, without irrigation in fact many acres of the mesa land in the

vicinity of the Village of Craibi is planted to peaches which produce abundantly, and of fine quality, and doubtless other kinds of fruit especially apples could be raised if planted. Juniper pine and scrub cedars are found on and along the slopes of the mesa forming the boundary. The trees however are small and unfit for any purpose other than wood for fuel.

The sand stone which underlies all of the mesa portion of the township is too soft to be of any value as a building stone. No mineral was found in the township yet it is probable that coal beds at a greater depth than found in the adjoining townships underlie this one also.

The township is poorly watered, the only living water being small springs, which in very dry years cease to flow.

There is a fine spring in sec 18, and the "Sacred Spring" which furnished all of the water used by the Indians in the Village of Craibi in sec 30. Several wells have been dug along the Craibi Wash, and it is quite probable that much water could be developed in this valley from this source.

The Indian Village of Craibi which is situated on the mesa in sec 32, contains a church, and about 200 houses, and has a population at the present time of about 500.

The town of Craibi situated at the foot of the Mesa in sec. 33, contains a day school, a post office, three stores and about 15 dwelling houses. Its population is about 50.

There is one settler in sec. 35.

Sidney E. Bloush

U.S. Examiner of Surveys

NOTE

Animal affidavits in book - of subdivisions.

Apr. 23 - 1909

U.S. EXAMINER OF SURVEYS
FINAL OATHS OF ~~DEPUTY SURVEYOR~~ AND HIS ASSISTANTS.

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LIST OF NAMES.

A list of the names of the individuals employed by Sidney E. Blouh

Examiner of Surveys
~~Deputy Surveyor~~, United States

to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the ~~survey~~ ^{and resurvey} of the Subdivision

Lines of T1/4 Sec 29 T16 R16 E of the Gila and Salt River Basins and Meridian in the Territory of Arizona

showing the respective capacities in which they acted:

Lafayette Jennings Chairman

Chas. L. Shumway Chainman

Fred L. Warner Moundman

Arthur A. Beard Moundman

Arthur A. Beard Arman

Arthur A. Beard Arman

Jay E. Fellick and Harry Lake Flagman

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted

....., United States Deputy Surveyor, in surveying all

those parts or portions of the

.....

.....

..... of the

..... meridian,, 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

....., Chainman.

....., Chainman.

....., Moundman.

....., Moundman.

....., Arman.

....., Arman.

....., Flagman.

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EXAMINER OF SURVEYS
FINAL OATH OF UNITED STATES ~~DEPUTY SURVEYOR.~~

BOOK 2597

I, _____, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from _____ United States Surveyor General for _____, bearing date of the _____ day of _____, 190____, 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 _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____

_____ of the _____ meridian, in the _____ of _____, 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 _____ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Sidney E. Blount

United States Deputy Surveyor.

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 190____



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona APR 25 1, 1904

The foregoing field notes of the survey ~~and~~ *and resurvey of the*
Subdivision lines of Township 29 North, Range 16 East of the
Gila and Salt River Base and Meridian, Arizona.

executed by *Sidney E. Blount, U.S. Examiner of Surveys*
under ~~his contract~~ *Special Instructions from the Commissioner of the General Land Office*, dated *Oct. 2, 1907 and May 15, 1908*, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank S. Ingalls
United States Surveyor General

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

United States Surveyor General.