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Subdivisional
BOOK "ZC"

BOOK 2607

FIELD NOTES

OF THE SURVEY OF THE

Subdivision lines of Twp. No. 28 North of

Range No. 14 East of

Of the Tika and Salt River Base and Meridian,

in the Territory of Arizona

EXECUTED
AS ~~SURVEYED~~ BY

Ridley E. Stoub, United States ~~Surveyor~~ ^{Commissioner of Survey}

Special Instructions from the Commissioner of the General Land Office
Under ~~his Contract No.~~ , dated Oct 2nd 1907 and May 15th 1908.

Survey commenced January 12th 1910 ~~190~~

Survey completed January 22nd 1910 ~~190~~

NAMES AND DUTIES OF ASSISTANTS.

<u>Van L. White</u>	<u>Compassman</u>
<u>Fred L. Warner</u>	<u>Chainman</u>
<u>Earl Albright</u>	<u>Chainman</u>
<u>P. G. White</u>	<u>Chainman</u>
<u>Ralph Simpson</u>	<u>Woodman</u>
<u>Charles L. Slumway</u>	<u>Arman</u>
<u>William B. Carson</u>	<u>Plagman</u>

BOOK 2607

INDEX DIAGRAM.

Township No. 28 N., Range No. 14 E.

STD. BK. "N" STANDARD BOOK "K" STD. BK. "C"

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EXTERIOR BOOK "AE"

EXTERIOR BOOK "AF"

EXT. BK. "AM"

EXTERIOR BOOK "AD"

EXT. BK. "Z"

EXT. BK. "AC"

EXT. BK. "AD"

Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

See Subdivisional Book "Y"

BOOK 2607

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 January 12th 1910 and executed with a W and L. E. Sturley Engineers transit No. 76. with a Burt solar attachment, the horizontal limb is provided with one double vernier reading to single minutes of arc. The verniers of the latitude and declination arcs read to 0' 30" of arc.

I examined the adjustments of the transit and find them to be perfect and know from recent tests of the solar apparatus by comparing its indications resulting from solar observations made during a.m. and p.m. hours, with a meridian established by observations on Polaris that the instrument is in satisfactory adjustment.

I begin at the cor. of sec. 1, 2, 35 and 36. on the S. E. of Twp. 28 N. R 14 E. which I established December 24th 1909, latitude $35^{\circ}46\frac{1}{4}'$ N. longitude $110^{\circ}48'48''$ W.

At 8^h 45^m a.m. ^{l.m.t.} I set off $35^{\circ}46\frac{1}{4}'$ N. on the lat. arc, $21^{\circ}41'3''$ on the decl. arc and determined a meridian with the solar at the above mentioned cor. Thence I run $N 0^{\circ}01' W$. bet. sec. 35 and 36.

Descend N.E. slope over hilly land through scattering sage brush and bunch grass.

- 1.35 Dry ravine course N.W. asc. steeply over S.W. slope of Clay ridge.
- 3.00 Top of ridge bears N.W. and S.E. desc
- 15.50 Dry ravine course W. asc.
- 31.00 Top of high sand ridge bears N.E. and S.W. desc.
- 35.00 Dry ravine course S.W. asc. steeply.
- 39.60 Top of rocky ridge bears N.E. and S.W. desc.
- 40.00 See an iron post 3ft long 1 in in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap. "4 S 35 on W half and S 36 on E half.
- Raise a mound of stone 2ft. base, $1\frac{1}{2}$ ft. high. W. of cor. Pits impracticable!
- 49.30 Dry ravine 20 lbs. wide 2ft. deep course S.W. Enter scattering pinon pine and cedar timber bears N.E. and S.W. asc.
- 76.16 Leave sandy land bears E. and W. Enter stony land bears E. and W. ascend ledge 8ft. high bears E. and W.
- 77.00 Top of sand stone ledge bears E. and W. asc. gradually.
- 80.00 See an iron post 3ft long. 2 ins. in diam. 24 ins.

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in the ground for cor. of sec. 25, 26, 35 and 36.
marked on brass cap T 28 N. S 26 in N.W. T 14 E S 25
in N.E. S 36 in S.E. and S 35 in S.W. quadrant
from which.

A Cedar 8 ins. in diam. bears S 19° E 198 lbs. dist. marked
T 28 N. R 14 E S 36 B.T.

A Cedar 6 ins. in diam. bears S 33 $\frac{1}{2}$ ° W 206 lbs. dist.
marked T 28 N. R 14 E. S 35 B.T.

A Cedar 12 ins. in diam bears N 7 $\frac{1}{2}$ ° W. 171 lbs. dist. marked
T 28 N. R 14 E S 26 B.T., No other trees suitable for
bearing trees available

Dig pit 36 X 36 X 12 ins in sec. 25 5 $\frac{1}{2}$ ft. dist and raise
a mound of earth 4 ft. base 2 ft. high. W. of cor.
land hilly and broken.

Soil sandy clayey and stony 3rd and 4th rate.
Timber pinion pine and cedar.

Course on a random line bet sec. 25 and 36.

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

80.00 Intersect E. side of N^o 12 lks. S. of the cor. of sec 25
recently estab. by me and described in Exterior Book "AF"
30, 31 and 36. Thence S 89° 55' W.

S 89° 55' W. on a true line bet. sec. 25 and 36.

Ascend E slope of sand ridge over hilly sandy land
through scattering pinion pine and cedar timber and
sage brush undergrowth and bunch grass.

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

21.20 West edge of mesa bears N.W. and S.E., begin
abrupt descent over S.W. slope.

32.50 Dry ravine at foot of mesa Course S. asc.

37.45 Top of sand ridge bears N and S. desc.

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 25
on N. half. and S 36 on S. half. from which.

A Cedar 4 ins. in diam. bears N 49° W 45 lbs. dist.
marked $\frac{1}{4}$ S 25 B.T.

A Cedar 5 ins. in diam. bears S 70° E 105 lbs. dist.
marked $\frac{1}{4}$ S 36 B.T.

55.85 Dry ravine Course S.W. asc.

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

68.80 Foot of descent in depression bears N.E. and S.W.
asc, drains S.W.

Chains

73.40 Top of sand ridge bears N.E. and S.W. dese.
 80.00 The cor. of secs. 25, 26, 35, and 36, heretofore described.
 Sand hilly.
 Soil sandy and stony 3rd and 4th rate.
 Timber pinon pine and cedar.

N 0° 01' W. 1/4 sec. 25 and 26.
 Ascend S.W. slope over hilly sandy and stony land through scattering cedar timber and sage bush, undergrowth and bunch grass.

3.00 Bear timber bears E. and W.
 7.00 Top of ridge bears E and W. dese.
 27.00 Dry ravine course W. ase.
 40.00 Set an iron post 3 ft. long, in in diam. 26 ins in the ground for 1/4 sec. cor. marked on brass cap 4 S 26 on W half and S 25 on E half.
 Raise a mound of stone 2 ft. base, 1 1/2 ft. high. W. of cor. Pits impracticable.

52.00 Top of sand ridge bears E and W. dese.
 68.00 Dry ravine 10 lbs wide 3 ft. deep course N.E.

80.00 Set an iron post 3 ft. long 2 ins. in diam., 24 ins. in the ground for cor. of secs. 23, 24, 25 and 26. marked on brass cap T 28 N S 23 in N.W. T 14 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. dia. and raise a mound of earth 4 ft. base 2 ft. high. W. of cor.

Sand hilly.
 Soil sandy and stony 3rd and 4th rate.
 Timber pinon pine and cedar

NOTE At this cor I set off 21° 41' S. on the decl. arc. and at noon observe the sun on the meridian and obtain on the lat. arc a reading of 35° 48' 26".

N 89° 55' E on a random line bet. sec 24 and 25
 40.00 Set temp 1/4 sec. cor.

80.10 Intersect E bdy. of Twp. 50 lbs. S. of the witness recently estab. by me and described in Extra Book "AF" cor. to cor. of secs. 19, 24, 25 and 30. Thence from true point for cor. of secs. 19, 24, 25 and 30. I run S 89° 53' W. on a true line bet. sec 24 and 25.

Chains

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- Over hilly sandy mesa land through scattering
pinion pine and cedar timber and sage brush under
growth.
- 19.10 West edge of mesa bears N.E. and S.W. descend
abrupt N.W. slope over sand stone cliffs and ledges.
- 40.00 Saw 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 24
on N. half and S 25 on S. half from, which.
A cedar 4 ins. in diam. bears $N 64\frac{1}{2}^{\circ} W 175$ lbs. dist.
marked $\frac{1}{4}$ S 24 B.T.
- A cedar 8 ins. in diam. bears $S 35\frac{3}{4}^{\circ} W 125$ lbs. dist.
marked $\frac{1}{4}$ S 25 B.T.
- 41.20 Foot of descent in dry ravine course N.W. asc. steeply
- 44.50 Top of sand ridge bears N.W. and S.E. desc.
- 50.00 Dry ravine course N.W. asc.
- 52.40 Top of stony ridge bears N.W. and S.E. desc. bears
timber bears N.W. and S.E.
- 58.70 Dry ravine course N.W. asc.
- 68.00 Top of sand ridge bears N.W. and S.E. desc.
- 74.20 Dry ravine course N.W. asc.
- 76.25 Top of sand ridge bears N.W. and S.E. desc.
- 80.10 The cor. of sees 23, 24, 25 and 26, heretofore described.
Land hilly.
Soil sandy and stony 3rd and 4th rate.
Timber pinion pine and cedars.
-
- N 0° 01' W. Feb. sees 23 and 24
Descend N.W. slope over hilly sandy land through
sage and greasewood brush undergrowth and
tough grass.
- 8.50 Dry ravine 20 lbs. wide course N.E.
- 20.00 The same ravine course N.W. asc.
- 22.00 Top of ascent on ridge bears N.W. and S.E. desc.
steeply over N.E. slope.
- 27.10 Foot of descent in canyon cross ravine course N.W.
asc. steeply
- 34.76 Top of sand stone ledge 8 ft. high. bears N.W. and
S.E. leaves hilly land bears N.W. and S.E. Enter level
land bears N.W. and S.E.
- 39.00 Leave level land bears N.E. and S.W. Enter hilly land
bears N.E. and S.W. Desc steeply over N.W. slope.

Chain

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 $\frac{1}{4}$ 323 on W. half and 324 on E. half.
 Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W of cor. Pits impracticable.

59.00 Dry ravine Course W. asc.

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

67.75 Dry ravine Course N.W. asc.

80.00 Set an iron post 3 ft. long 2 ins. in diam. 24 ins. in the ground for cor. of sec. 13, 14, 23 and 24, marked on brass cap T 28 N. S 14 in N.W. T 14 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. deep and raise a mound of earth 4 ft. base 2 $\frac{3}{4}$ ft. high W. of cor.
 Land level and hilly.
 Soil sandy and stony 3rd and 4th rate.
 No timber.

At 89° 53' E on a random line bet. sec. 13 and 24

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

80.04 Intersect E. line of Twp. 52 lbs. S. of the witness recently estab. by me and described in Exterior Book "AF" Cor. to Cor. of sec. 13, 18, 19 and 24. Thence run S 89° 52' W. on a true line bet. sec. 13 and 24 from the true post for cor. of sec. 13, 18, 19 and 24
 Over level sandy and stony mesa land.

140 The edge of mesa bears N.W. and S.E. level land bears N.W. and S.E. Enter hilly land bears N.W. and S.E.

8.85 Arch of steep descent in ravine Course N.W. asc. Enter cedar timber bears N.W. and S.E.

24.00 Level timber bears N.W. and S.E.

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

35.80 Dry ravine Course N.W. asc.

40.02 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 $\frac{1}{4}$ 313 on W. half and 324 on E. half. from which.
 A cedar 10 ins. in diam. bears N 73 $\frac{1}{2}$ ° W 163 lbs. dist. marked $\frac{1}{4}$ S. 13 B.T.
 A cedar 6 ins. in diam. bears S 39 $\frac{1}{2}$ ° E 125 lbs. dist.

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Chain

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marked $\frac{1}{4}$ S 24 B.T.
 45.00 Top of sand ridge bears N. and S. desc.
 80.04 The cor. of secs 13, 14, 23 and 24, heretofore described.
 Land level and hilly.
 Soil sandy and stony 3rd and 4th rates.
 Timber Cedar.

January 12th 1912

1910
 January 15th at 8^h 15^m a.m. l.m.t. sep. off. $35^{\circ}49'N$.
 on the lat. arc. $21^{\circ}09' S$. on the decl. arc and
 determined 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 sec 13 and 14,
 ascend S.W. slope over hilly sandy land through
 sage and greasewood bush undergrowth and bunch
 grass
 15.00 Top of sand ridge bears NW. and SE. desc.
 21.75 Dry ravine course NW. asc. S.W. slope.
 32.00 Top of sand ridge bears NW. and SE. desc.
 40.00 See an iron fork 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 fork. 3 ft. deep.
 and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high.
 W. of cor.
 47.40 Dry ravine 15 lbs wide 3 ft. deep. course NW.
 48.35 The same ravine course NE. asc.
 49.65 Top of sand ridge bears NE. and SW. desc.
 51.50 Foot of descent. leaves undergrowth bears NE. and SW.
 enter cultivated land bears NE. and SW. asc. gradually
 60.00 Dry sand wash. 20 lbs wide 6 ft. deep course W. asc.
 63.50 Trail to Arabi Ariz bears NE. and SW.
 65.40 Leaves cultivated land bears NE. and SW. Enter sage
 and greasewood bush undergrowth and bunch grass
 bears NE. and SW.
 72.00 Top of sand ridge bears NE. and SW. desc.
 74.75 Dry ravine course SW. asc.
 80.00 See an iron fork 3 ft. long 2 in. in diam 24 in
 in the ground for cor. of secs. 11, 12, 13 and 14
 marked on brass cap. T 2871. S 11 in NW, R 14 E
 S 12 in NE. S 13 in SE. and S 14 in SW. quadrants.

Subdivision of Twp. 28 N. R. 14 E.

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Chains

Raise a mound of stone 2 ft. base, 1 1/2 ft. high. W. of cor. Pits impracticable
Land hilly.
Soil sandy 2nd and 3rd rate.
No timber.

N 89° 52' E on a random line bet. sec. 12 and 13.

40.00 Sec. temp 1/4 sec. cor.

79.98 Intersect the E. boundary of Twp. 8 N. of the cor. of recently estab. by me and described in Exterior Book "AF" Secs. 7, 12, 13 and 18. There is a run

S 89° 55' W. on a true line bet. sec. 12 and 13.

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

.60 Pop of sand ridge bears N.E. and S.W. desc.

38.85 Dry sand wash 30 lks. wide 2 ft. deep course S. asc.

39.99 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 120° W N. half and S 130° W S. half.

Dig pits 18 x 18 x 12 ins E and 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.

55.00 Pop of ridge bears N.E. and S.W. desc.

75.00 Dry ravine course S.W. asc.

79.98 The cor. of sec. 11, 12, 13 and 14, heretofore described.

Land hilly.

Soil sandy 3rd rate.

No timber.

N 0° 01' W. bet. sec 11 and 12.

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

7.40 Pop of sand ridge bears N.E. and S.W. desc.

10.25 Dry ravine course S.W. asc.

38.00 Pop of sand ridge bears N.E. and S.W. desc.

39.75 Dry ravine course S.W. asc.

40.00 The point for the 1/4 sec. cor. falls in the bottom of dry ravine, where natural causes would insure the destruction of the cor. therefore continue my line asc. S.E. slope

Subdivision of T₂₈N. R₁₄E.

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40.25 Set an iron post. 3 ft. long 1 in. in diam., 26 ins. in the ground for witness cor. to the $\frac{1}{4}$ sec. cor. marked on brass cap T₂₈N. R₁₄E. S₁₁ on W. half S₁₂ on E. half and W. $\frac{1}{4}$ in S half.

Raise a mound of stone 2 ft. base 1 1/2 ft. high. W. of cor. Pits impracticable

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

50.50 Dry ravine course S.W. asc.

80.00 Set an iron post. 3 ft. long 2 ins. in diam., 24 ins. in the ground for cor. of sees. 1, 2, 11 and 12. marked on brass cap T₂₈N. S₂ in N.W. R₁₄E S₁ in N.E. S₁₂ in S.E. and S₁₁ in S.W. quadrant.

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

Land hilly.

Soil sandy & rate.

No timber.

NOTE At this cor. I set off 21° 9' S on the decl. arc and at noon observed the sun on the meridian and obtain on the lat. arc. a reading of 35° 50 1/2' N.

N 89° 55' E on a random line bet. sees. 1 and 12.

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

80.04 Intersect E. ldy. of T₁₀ lks. S. of the cor. of recently estab. by map and described in Exterior Book "AF" sees. 1, 6, 7 and 12. Thence I run

S 89° 51' W. on a true line bet. sees. 1 and 12.

Descend N.W. slope over hilly sandy land through sage and greasewood brush and bunch grass.

.30 Dry ravine course S.W. asc.

16.90 Top of ascent on E. edge of mesa bears N. and S. asc. gradually over stony land.

40.02 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. $\frac{1}{4}$ S₁ on N. half and S₁₂ on S. half.

Raise a mound of stone 2 ft. base, 1 1/2 ft. high. N. of cor. Pits impracticable

40.10 Top of sand ridge, found top of mesa bears N.E. and S.W. desc.

56.55 West edge of mesa bears N.W. and S.E. desc abruptly over S.W. slope

Subdivision of Twp 28N, R14E.

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68.60 Dry ravine course S.W. at foot of mesa. asc.

71.80 Top of clay ridge bears N and S. desc.

75.00 Dry ravine course S. asc.

80.04 The cor of sec 1, 2, 11 and 12, heretofore described.

Land hilly.

Soil sandy 3rd rate.

No timber.

N 0° 01' W bet. sec 1 and 2.

ascend S. slope of mesa over hilly sandy and stony land through sage and greasewood brush and bunch grass

9.45 Top of ascent on S. edge of mesa bears E and W. asc. gradually over sandy land.

14.00 Top of sand ridge bears E and W. desc gradually.

26.20 North edge of mesa bears E and W. desc. abruptly over N. slope.

38.50 Dry ravine at foot of mesa course N.W. asc

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 2 on W half and S 1 on E. half.

Dig pits 18x18x12 ins. N and S. of post. 3 ft. deep. and raise a mound of earth 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high. W. of cor.

78.02 Intersect the Seventh Standard Parallel North 275 lbs. E. of the Standard $\frac{1}{4}$ sec. cor on the S. edge of sec 35 T 29 N. R 14 E. recently estab. by me and described in Standard Book "K". Set an iron post 3 ft. long 2 ins. in diam 24 ins. in the ground for closing cor. of sec 1 and 2. marked on brass cap. C.E. T 29 N. R 14 E. S 35, S 36 in North half.

S 1 in S.E. and S 2 in S.W. quadrants, raise a mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high. S. of cor. Pits impracticable.

Land hilly.

Soil sandy and stony 3rd and 4th rate.

No timber.

January 15th 1910

1910 January 13th 1910 Ah. 8 30^h am. S. 85° 46 $\frac{1}{4}$ N. on

Chains

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the lat. arc, $21^{\circ} 30' 25''$ S. on the decl. arc, and determine a meridian with the solar at the cor. of sec. 2, 3, 34 and 35 ^{recently estab. by me and described in Exterior Book "AD"} ~~of~~ ^{Thence} ~~from~~ ^{from} $N 0^{\circ} 01' W$. to sec. 34 and 35.

Descend N.E. slope over rolling sandy land through sage and greasewood brush undergrowth and bunch grass.

30.00 Top of descent in depression bears N.E. and S.W. drains S.W. asc. gently.

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 to 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.

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

55.30 Dip same course S.W. asc.

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

80.00 Set an iron post 3 ft. long 2 ins. in diam 24 ins. in the ground for cor of sec 26, 27, 34 and 35. marked in brass cap T 28 N 3. 27 in NW. R 14 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.

Land rolling,
Soil sandy 3rd rate,
No timber.

East on a random line bet. sec. 26 and 35.

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

79.94 Intersect N and S. line 12 lps S. of the cor. of sec. 25, 26, 35 and ^{heretofore described} ~~36~~ ^{Thence} ~~from~~ ^{from} $S 89^{\circ} 55' W$. on a true line bet. sec. 26 and 35.

Over rolling sandy land through sage and greasewood brush undergrowth and bunch grass and scattering cedar timber.

6.00 Leave timber bears N.W. and S.E.

8.00 Top of sand ridge bears N. and S. desc.

36.00 Sand stone ledge bears N. and S.

Chains

- 39.97 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. 326 on N. half and 335 on S. half.
 Raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high. W. of cor. Pits impracticable
- 52.85 Dry ravine 10 lbs. wide course S.W. asc.
- 62.20 Top of sand ridge bears N.E. and S.W. desc.
- 64.15 Dry ravine course S.W. asc.
- 70.50 Top of sand ridge bears N.E. and S.W. desc.
- 79.94 The cor. of secs. 26, 27, 34 and 35, heretofore described.
 Land rolling and hilly.
 Soil sandy 3rd rate.
 Timber Cedars,

N 0° 01' W. bet. secs. 26 and 27.

are on a slope over rolling and hilly sandy land through sage and greasewood brush undergrowth and bunch grass

- 140 Top of ridge bears N.E. and S.W. desc.
- 3.00 Foot of descent in depression bears N.E. and S.W. draws S.W. asc.
- 33.40 Top of clay ridge 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 $\frac{1}{4}$ sec. cor. marked on brass cap. 327 on W. half and 326 on E. half.
 Dig pits 18 x 18 x 12 ins. N and S. of post. 3 ft. deep and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high. W. of cor.
- 49.50 Dry ravine course S.W. asc.
- 51.00 Top of sand ridge bears N.E. and S.W. desc.
- 56.40 Dry ravine 15 lbs wide 2 ft. deep course S.W. asc.
- 77.30 Top of sand stone ledge bears E and W. level hilly land bears E and W. enter rolling 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 secs. 22, 23, 26 and 27 marked on brass cap 728 N. 322 in N.W. R 14 E 323 in N.E. 326 in S.E. 327 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 and hilly.
 Soil sandy and stony 3rd and 4th rate.

BOOK 2607

No timber

At this cor I set off $21^{\circ}30\frac{1}{2}'$ S. on the decl. arc and at noon observe the sun at the meridian the resulting lat. being $35^{\circ}48'N$.

$N89^{\circ}55'E$ on a random line bet. secs. 23 and 26.

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

79.90 Intersect N and S. line 2 lks S. of the cor. of secs. 23, 24, 25 and 26 ^{heretofore described} Thence I run

$S89^{\circ}54'W$. on a true line bet. secs. 23 and 26.

Descend N.W. slope over hilly sandy land through sage and greasewood brush undergrowth and bunch grass.

3.00 Foot of descent in depression betw N and S. drains N. arc.

9.00 Top of sand ridge betw N.W. and S.E. desc.

39.95 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 23 on N. half and S 26 on S. half.

Dig pits 18x18x12 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.

41.00 Foot of descent in depression betw N.E. and S.W. drains N.E. arc.

46.00 Top of gravelly hill betw N. and S. desc.

67.00 East edge of canyon betw N.W. and S.E. desc.

70.50 Bottom of canyon. Cross ravine course N.W. asc.

73.00 West edge of canyon betw N.E. and S.W.

79.90 The cor. of secs. 22, 23, 26 and 27, heretofore described.

Land hilly.

Soil sandy 3rd rate.

No timber.

$N0^{\circ}01'W$ bet. secs. 22 and 23.

Descend S. slope over sandy mesa land through sage and greasewood brush undergrowth and bunch grass.

11.60 Top of sand ridge betw 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 $\frac{1}{4}$ sec. cor. marked on brass cap.

Chassis

- 1/4 S 22 on W half and S 23 on E. half...
Dig pits 18x18x12 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.
- 77.60 Level rolling land bears N.E. and S.W. Enter hilly
land bears N.E. and S.W. desc. steeply over sand
stone ledge 10 ft. high bears N.E. and S.W.
- 78.70 Dry ravine course N.E. asc.
- 80.00 Set an iron post 3 ft. long 2 ins. in diam 24 ins.
in the ground for cor. of sec. 14, 15, 22, and 23.
marked on brass cap. T 28 N S 15 in N.W., R 14 E
S 14 in N.E. S 23 in S.E. and S 22 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 hilly.
Soil sandy and stony 3rd and 4th rate.
No timber.
-
- N 89° 54' E on a random line bet. sec. 14 and 23.
- 40.00 Set temp. 4 sec. cor.
- 79.96 Intersect N and S. line at the cor. of sec. 13, 14, 23
^{herebefore described}
and 24. ^{Thence} Drum
- S 89° 54' W. on a true line bet. sec. 14 and 23
Descend W. slope over hilly sandy land through
sage and greasewood brush undergrowth and
much grass.
- 15.40 Dry sand wash 60 lbs wide 1 ft. deep. course N.W.
on N.E. slope.
- 19.00 Top of sand ridge bears N.W. and S.E. desc.
- 23.10 Dry sand wash 30 lbs. wide 3 ft. deep. course N.W.
- 37.00 Top of sand ridge bears N.W. and S.E. desc.
- 39.98 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 14 on N half and S 23 on S half.
Dig pits 18x18x12 ins. East 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.
- 43.00 Dry ravine course N. asc.
- 57.00 Top of sand ridge bears N.W. and S.E. desc.
- 76.00 Dry ravine course N. asc.
- 77.60 Top of ridge bears N and S. desc.
- 79.00 Dry ravine course N. asc.

BOOK 2607

79.96

The cor. of sees 14, 15, 22 and 23, heretofore described.
Land hilly.
Soil sandy and stony 3rd and 4th rate.
No timber.

January 13th 1910.

January 19th 1910. At 8^h 30^m ^{l.m.t.} am. Deb. off. 35° 49' N.
on the lat. arc. 20° 23' S. on the decl. arc. and determine
a meridian with the solar at the cor. of sees, 14, 15-22
and 23^{heretofore described}. Thence run

N 0° 01' W bet. sees 14 and 15.

Ascend stony S.E. slope over hilly land through
sage and greasewood bush. undergrowth dead bunch
grass.

1.75 Top of stony ridge 12 ft. above cor. bears N.W. and S.E.
desc.

36.00 Foot of descent in depression. bears N.W. and S.E. drains
N.W. arc.

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. 7 315 on W. half and 314 on E. half.
Dig pits 18 x 18 x 12 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.

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

60.70 Foot of descent bears hilly land bears N.E. and S.W.
Enter level land bears N.E. and S.W. in dry sand Wash course W.

61.35 Trail to Oraibi Ariz bears N.E. and S.W.

78.00 Leave level land bears N.E. and S.W. Enter hilly
land bears N.E. and S.W. ascend gradually over S slope.

80.00 Set an iron post 3 ft. long 2 ins. in diam. 24 ins.
in the ground for cor. of sees 10, 11, 14, and 15
marked on brass Cap. T 28 N S 10 in N.W. T 14 E
S 11 in N.E. S 14 in S.E. and S 15 in S.W. quadrant.
Dig pits 18 x 18 x 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.

Land level and hilly.

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

Chain

40.00 S $89^{\circ}54'$ E on a random line bet. sec. 11 and 14
 Set temp. $\frac{1}{4}$ sec. cor.
 79.88 Intersect N. and S. line 5 lbs. N. of the cor. of sec.
 11, 12, 13 and 14, ^{heretofore described.} Thence I run
 S $89^{\circ}56'$ W. on a true line bet. sec. 11 and 14
 Descend W. slope over hilly sandy land through
 sage and greasewood brush undergrowth and
 bunch grass.
 3.00 Dry ravine course S. ase.
 5.00 Top of sand ridge bears N. and S. desc.
 13.85 Dry ravine course S. W. ase.
 19.70 Top of sand ridge bears N.E. and S.W. desc.
 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 11 on N. half and S 14 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 $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft.
 high N. of cor.
 40.30 Dry sand wash 25 lbs. wide course S.W. ase.
 63.60 Top of sand ridge bears N. and S. desc. S.W. slope
 79.88 The cor. of sec. 10, 11, 14 and 15, heretofore described.
 Land hilly.
 Soil sandy 3rd rate.
 No timber.

N $0^{\circ}01'$ W. bet. sec. 10 and 11.
 ascend S.W. slope over hilly sandy land through
 scattering sage brush undergrowth and bunch grass
 31.80 Top of sand ridge bears E. and W. desc. gradually
 39.90 Foot of descent in depression bears N.E. and S.W.
 draws to S.W. ase.
 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 10 on W. half and S 11 on E. half,
 Dig pits 18 x 18 x 12 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.
 61.90 Top of sand ridge bears N.E. and S.W. desc.
 68.50 Dry ravine course W. ase.
 77.70 Top of clay ridge bears E. and W. desc.
 80.00 Set an iron post 3 ft. long 2 ins. in diam. 24 ins.

BOOK 2607

in the ground for cor. of secs. 2, 3, 10 and 11 marked
on brass cap T 28 N. S 3 in N.W. R 14 E S 2 in N.E.
S 11 in S.E. and S 10 in S.W. quadrants.

Raise a mound of stone 2 ft base, 1 1/2 ft high. W. of
Cor. Pits impracticable

Land hilly.

Soil sandy and clayey 3rd rate.

No timber.

NOTE. At this cor. I set. off 20° 27' S. on the decl. arc and at
noon observe the sun on the meridian. the resulting
lat. being 35° 50 1/2' N.

N 89° 56' E on a random line bet. sec. 2 and 11.

40.00 Set. tang. 1/4 sec. cor.

79.96 Intersect N and S. line at the cor. of secs. 1, 2, 11 and 12,
Thence I run
heretofore described

S 89° 56' W. on a true line bet. sec. 2 and 11

ascend S.E. slope of ridge over hilly sandy land through
sage and greasewood brush undergrowth and bunch
grass.

2.00 Top of sand ridge bears N.E. and S.W. dec.

14.50 Dry ravine course S. asc.

39.98 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 1/2 S 2
on N. half and S 11 on S. half.

Raise a mound of stone 2 ft. base, 1 1/2 ft. high. N. of cor.
Pits impracticable

41.70 Top of clay ridge bears N.E. and S.W. dec.

49.10 Dry ravine course S.W. asc.

54.25 Top of clay ridge bears N.E. and S.W. dec.

67.00 Dry ravine course S.W. asc.

73.10 Top of clay ridge bears N.E. and S.W. dec.

79.96 The cor. of secs. 2, 3, 10 and 11, heretofore described.

Land hilly.

Soil sandy and clayey. 3rd rate.

No timber.

N 0° 01' W. bet. sec. 2 and 3.

Descend N. slope over hilly sandy and clayey
land through scattering sage and greasewood

Chains

- 5.00 brush undergrowth and bunch grass.
- 5.00 Dry ravine course N.W. asc. steeply.
- 7.00 Top of high clay ridge bears E. and W. desc.
- 14.00 Foot of descent level lilly land bears N.E. and S.W.
- Enter level land bears N.E. and S.W.
- 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 30 W half and S 2. 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.
- 55.00 Road to Oraibi. Ariz bears N.E. and S.W.
- 77.90 Intersect the Smith Standard Parallel North 305 lks E. of the Standard $\frac{1}{4}$ sec. cor. on the S. bdy. recently estab. by me and described in Standard Book "K" of sec. 34. T 29 N. R. 14 E. Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground for closing cor. of sec. 2 and 3. marked on brass cap C.C. 729 N. R. 14 E. S 34. 335. in N. half, 32 in S.E. and S 3. in S.W. quadrants.
- Dig pits 24x18x12 ins. crosswise on each line East and W. 3 ft. and S of post, 7 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high. S. of cor.
- Land level and hilly.
- Soil sandy and clayey, 3rd rate.
- No timber.

January 19th 1910.

- 1910
- January 14th At 8^h 15^m a.m. L.m.t. Deb. off. $35^{\circ} 46\frac{1}{2}'$ N. on the lat. arc. $21^{\circ} 20'$ S. on the decl. arc. and determine a meridian with the polar. at the cor. of sec. 3, 4. recently estab. by me and described in Exterior Book "AD" 33 and 34 on S. bdy of Twp. Thence I run, N $0^{\circ} 02'$ W. to sec. 33 and 34
- Descend N.W. slope over rolling sandy land through sage and greasewood brush undergrowth and bunch grass
- 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 33 on W half and S 34 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.
- 42.00 Foot of descent in depression bears N.E. and S.W. drains S.W. asc.

Chains

BOOK 2607

80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for cor. of sec. 27, 28, 33 and 34 marked on brass cap. T 28 N. S 28 in N.W. T 14 E. S 27 in N.E. S 34 in S.E. and S 33 in S.W. quadrant.
Dig pits 18 x 18 x 12 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 rolling.
Soil sandy 3rd rate.
No timber.

Each on a random line bet. sec. 27 and 34.
40.00 Set temp. 1/4 sec. cor.
80.10 Intersect N and S line at the cor. of sec. 26, 27, 34 and ^{heretofore described} 35. Thence I run
West on a true line bet. sec. 27 and 34
Descend W. slope over rolling sandy land through sage brush undergrowth and bunch grass.
4.00 Top of descent in depression bears N.E. and S.W. dials to the S.W. asc. gradually.
10.30 Top of sand ridge bears N.E. and S.W. desc. gradually over N.W. slope.
40.05 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 27 on N. half and S 34 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. base, 1 1/2 ft. high. W. of cor.
80.10 The cor. of sec. 27, 28, 33 and 34, heretofore described.
Land rolling.
Soil sandy 3rd rate.
No timber.

N 0° 02' W. bet. sec. 27 and 28.
Ascend S.W. slope over rolling sandy land through sage and greasewood brush, undergrowth and bunch grass
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 S 28 on W. half and S 27 on E. half.
Dig pits 18 x 18 x 12 ins. N and S. of post, 3 ft. dist.,

chain

19

and raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high. W. of cor.

54.00 Top of sand ridge bears N.E. and S.W. desc. gently over N.W. slope.

67.00 Foot of descent in depression bears N.E. and S.W., drains to the S.W. asc. gradually, over rolling land.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 21, 22, 27 and 28. marked on brass Cap. + 28 N 321 in N.W. T 14 E S 22 in N.E. S 27 in S.E. and S 28 in S.W. quadrants. Dig pits 18 x 18 x 12 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 rolling.
Soil sandy 3rd rate.
No timber.

NOTE At this cor. I set $\frac{1}{4}$ sec. $21^{\circ} 20'$ S on the decl. arc, and at noon observe the sun on the meridian, and obtain on the lat. arc a reading of $35^{\circ} 48' 76$.

40.00 Set on a random line bet. secs. 22 and 27. Set temp. $\frac{1}{4}$ sec. cor.

80.16 Intersect $\frac{1}{4}$ and $\frac{3}{4}$ lines 5 lbs. N. of the cor. of secs. 22, 23, 26, and ^{heretofore described} 27. Thence run N 89 $^{\circ}$ 58' W. on a true line bet. secs. 22 and 27. Over rolling sandy land through sage and greasewood, brush undergrowth and bunch grass.

15.20 Leave rolling land bears N.W. and S.E. desc over hilly, sandy and stony land bears N.E. and S.W.

40.08 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 22 on N. half and S 27, on S. half. Dig pits 18 x 18 x 12 ins. East W. 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.

42.00 Dry ravine Course S.W. asc.

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

80.16 The cor. of secs. 21, 22, 27 and 28, heretofore described. Land rolling and hilly. Soil sandy and stony 3rd and 4th rate.

BOOK 2607

No timber

N 0° 02' W. bet. sec. 21 and 22.

Ascend S slope over rolling sandy land through sage and greasewood brush, undergrowth and bunch grass

3.40 Top of sand ridge bears E and W. desc over rolling land.

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 18 x 18 x 12 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.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam. 24 ins. in the ground for cor. of sec. 15, 16, 21, and 22 marked on brass cap T 28 N S 16 in N.W. R 14 E S. 15 in N.E. S 22 in S.E. and S 21 in S.W. quadrant.

Dig pits 18 x 18 x 12 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 rolling.

Soil sandy, 3rd rate.

No timber.

S 89° 58' E on a random line bet. sec. 15 and 22.

40.00 Set temp. $\frac{1}{4}$ sec. cor.80.08 Intersect N and S. line at the cor. of sec. 14, 15, 22 and 23, ^{heretofore described} Thence S run.

N 89° 58' W. on a true line bet. sec. 15 and 22.

Ascend E. slope over hilly sandy and clayey land through sage and greasewood brush, undergrowth and bunch grass.

.80 Top of ridge bears N and S. thence over rolling land

4.60 Begin descent over W. slope.

9.00 Foot of descent. Leave hilly land bears N.E. and S.W. Enter level land bears N.E. and S.W.

22.00 Leave level land bears N and S. Enter hilly clayey land bears N and S. desc.

40.04 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 15 on N. half and S 22 on S half.

Submission of Tfs 28N, R14E.

Chains

- 51.20 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. W. of cor.
- 52.10 Right bank of dry sand wash. 8 ft. high. bears NW. and SE.
- 52.10 Left bank of dry sand wash. 8 ft. high. bears NW. and SE.
- 80.08 The cor. of secs. 15, 16, 21 and 22, heretofore described. Land level, rolling and hilly. Soil sandy and clayey 3rd rate. No timber

January 14th 1910

1910
 January 20th at 10^h come a.m. l.m.t. Obs. off 35°49' 26" on the lat. arc. 20°10 1/2' S on the decl. arc and determine a meridian with the solar alt. the cor. of secs. 15, 16, 21 and 22, ^{heretofore described} thence 0 run

N 0° 02' W. Obs. secs 15 and 16.

Descend N.W. slope over rolling sandy land through sage and greasewood bush undergrowth and bunch grass.

34.20 Nail to Craib's Arizona bears N.E. and S.W.

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. 7316 on W half and 315 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.

80.00 Set an iron post. 3 ft. long. 2 ins. in diameter 24 ins. in the ground for cor. of secs. 9, 10, 15, and 16, marked on brass cap T 28 N, 39 in N.W. R 14 E.

310 in N.E. 315 in S.E. and 316 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 rolling.

Soil sandy 3rd rate.

No timber

40.00 Set temp. 1/4 sec. cor. S 89° 58' E on a random line bet. sec. 10 and 15

BOOK 2607

79.96 Intersect N and S, line 3 lks. N. of the cor. of secs. 10, 11, 14 and 15 ^{heretofore described} ~~15~~ ^N Thence S run N 89° 57' W, on a true line bet. sec. 10 and 15. Ascend S.E. slope of ridge over hilly sandy land through sage and greasewood brush undergrowth and bunch grass.

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

6.50 Foot of descent. Level hilly land bears N.W. and S.E. Enter level land bears N.W. and S.E.

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 brass cap. $\frac{1}{4}$ S 10 on N. half and S 15 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.

79.96 The cor. of secs. 9, 10, 15 and 16, heretofore described. Land level and hilly. Soil sandy 3rd rate. No timber

NOTE At this cor. I set off 20° 10' S on the decl. arc and at noon observed the sun on the meridian the resulting latitude being 35° 50' N.

N 0° 02' W. bet. sec. 9 and 10.

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

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 9 on W. half and S 10 on E. half.

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

40.75 Road to Craighi bears N.E. and S.W.

80.00 Set an iron post 3 ft. long 2 ins. in diam. 24 ins. in the ground for cor. of secs. 3, 4, 9 and 10. marked on brass cap. T 28 N S 4 in N.W. R 14 E. S 3 in N.E. S 10 in S.E. and S 9 in S.W. quadrants.

Chains

	<p>Dig pits 18x18x12 ins. in each. sec. 5 1/2 fh. dia. and raise a mound of earth 4 fh. base 2 fh. high. W. of cor. Land rolling and level. Soil sandy 3rd rate. No timber.</p>
40.00	<p>S 89° 57' E on a random line bet. secs. 3 and 10 Set temp. 1/4 sec. cor.</p>
79.94	<p>Intersect N and S. line 8 lks. W. of the cor. of secs. 2, 3, 10 and ^{heretofore described} W. 1/4 Thence S run N 89° 54' W. on a true line bet. secs. 3 and 10 Descend N.W. slope over hilly clay land, through sage and greasewood brush undergrowth and bunch grass.</p>
9.00	<p>Foot of descent, leave hilly land bear N.E. and S.W. Enter level sandy land bear N.E. and S.W.</p>
39.97	<p>Set an iron post 3 fh. long 1 in. in diam., 26 ins. in the ground for 1/4 sec. cor. marked on brass cap 1/4 S 3 on N. half and S 10 on S half. Dig pits 18x18x12 ins. E and W. of post. 3 fh. dia. and raise a mound of earth 3 1/2 fh. base 1 1/2 fh. high. N. of cor.</p>
44.95	<p>Old road to Oraibi Arizona bear N.E. and S.W.</p>
79.94	<p>The cor. of secs. 3, 4, 9 and 10, heretofore described. Land level and hilly. Soil sandy and adsh 3rd rate. No timber.</p>
	<p>N 0° 02' W. bet. secs. 3 and 4, Over level sandy land through sage and greasewood brush undergrowth and bunch grass.</p>
26.00	<p>Dry sand wash 20 lks wide 8 fh. deep course W.</p>
38.60	<p>Dry sand wash 25 lks. wide 10 fh. deep course W.</p>
40.00	<p>Set an iron post 3 fh. long 1 in. in diam., 26 ins. in the ground for 1/4 sec. cor. marked on brass cap. 1/4 S 4 on W. half and S 3 on E. half. Dig pits 18x18x12 ins. N and S. of post. 3 fh.</p>

BOOK 2607

- 66.50 Lefth. bank of the De Nebeto Wash 35 ft. high. bears N.E. and S.W.
- 67.75 Center of dry bed of the De Nebeto Wash. Course S.W.
- 68.95 Righth. bank of the De Nebeto Wash. 35 ft. high. bears N.E. and S.W.
- 77.66 Intersect the Seventh Standard Parallel North 318 lks. E of the standard $\frac{1}{4}$ sec. cor. on the S bdy of sec. 33 T 29 N. R 14 E, recently estab. by me and described in Standard Book "K" Set an iron post 3 ft. long 2 ins. in diam. 24 ins. in the ground for closing cor. of sec 3 and 4 marked on brass cap C.C. T 29 N. R 14 E. S 33. S 34 in N. half., S 3 in S.E. and S 4 in S.W. quadrants. Dig pits 24x18x12 ins. crosswise on each. One E. and W. 3 ft. and S of post. 7 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high S. of cor. Hand level. Soil sandy 3rd rate. No timber.

January 20th 1910

- 1910
 January 17th 1910 ^{l.m.t.} At 2^h 19^m a.m. set off. 35° 46' 4" N. on the lat. arc, 20° 47' S. on the decl. arc, and determine a meridian with the solar alt. the cor. of sec. 4, 5, 32 and 33 on the S. bdy of the Tp. recently estab. by me and described in Exterior Book "AD" then set S. run No 03 W. bdy. sec. 32 and 33. Descend gently on N.W. slope over rolling sandy land through scattering sage brush undergrowth and bunch grass.
- 28.30 Dry sand wash 25 lks. wide 4 ft. deep course N.W.
 - 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 32 on W half and S 33. 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, $\frac{1}{2}$ ft. high W. of cor.
 - 80.20 Set an iron post 3 ft. long 2 ins. in diam 24 ins. in the ground for cor. of sec. 28, 29, 32 and 33

Subdivision of Twp 28 N. R. 14 E.

Chain

marked on brass cap T 28 N. S 29 in NW. T 14 E. S 28 in NE. S 33 in SE. and S 32 in SW. 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 rolling.
Soil sandy. 3rd rate.
No timber.

40.00 Cash on a random line bet. secs. 28 and 33
80.00 Sec temp. 1/4 sec. cor.
80.00 Intersect N and S. line 3 lks. S. of the cor. of secs. 27, 28, 33, and ^{heretofore described} 34. Thence drum S 89° 59' W. on a true line bet. secs. 28 and 33 descend NW. slope over rolling sandy land through sage and greasewood bush. undergrowth and bunch grass.

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. S 28 on N. half and S 33 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. W. of cor.

80.00 The cor. of secs. 28, 29, 32 and 33, heretofore described.
Land rolling.
Soil sandy 3rd rate.
No timber.

W 0° 03' W. bet. secs. 28 and 29.
Descend gradually over NW. slope over rolling sandy land through sage and greasewood bush undergrowth and bunch grass.

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 S 29 on W. half and S 28 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.

80.00 Set an iron post 3 ft. long 2 in. in diam. 24 ins. in the ground for Cor. of secs. 20, 21, 28 and 29.

BOOK 2607

marked on brass cap T₂₈N. S₂₀ in N.W. R₁₄E.
 S₂₁ in N.E. S₂₈ in S.E. and S₂₉ in S.W. quadrants.
 Dig pits 18x18x12 ins. in each sec. 5½ ft. dia.
 and raise a mound of earth 4 ft. base, 2 ft.
 high. W. of cor.
 Sand rolling.
 Soil sandy 3rd rate.
 No timber.

At this cor I set off 20°47'3. on the decl. arc
 and at noon observed the sun on the meridian
 and obtain on the lat. arc a reading of 35°48'16.

40.00 N 89°59'E on a random line bet. secs 21 and 28
 Set temp. ¼ sec. cor.

80.04 Intersect. N and S. line at the cor. of secs.
 21, 22, 27 and 28, ^{heretofore described} Thence run

S 89°59' W. on a true line bet. secs 21 and 28.
 Descend rolling N.W. slope over sandy land
 through scattering sage and greasewood brush
 and bunch grass.

40.02 Set an iron post 3 ft. long 1 in. in diam. 26
 ins. in the ground for ¼ sec. cor. marked on
 brass cap ¼ S₂₁ on N. half and S₂₈ on S. half
 Dig pits 18x18x12 ins. East W. of post 3 ft.
 dia. and raise a mound of earth 3½ ft.
 base, 1½ ft. high W. of cor.

80.04 The cor. of secs. 20, 21, 28 and 29, heretofore described.
 Sand rolling.

Soil sandy 3rd rate.
 No timber.

N 0°03' W bet. secs. 20 and 21

Descend gradually N.W. slope over rolling
 sandy land through scattering sage and greasewood
 brush undergrowth and bunch grass.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins.
 in the ground for ¼ sec. cor. marked on brass
 cap ¼ S₂₀ on W. half and S₂₁ on E. half.
 Dig pits 18x18x12 ins N and S. of post 3 ft. dia.
 and raise a mound of earth 3½ ft. base, 1½

Chain

76.10 ft. high W. of cor.
 Nail to Oasis Arizona bears N.E. and S.W.
 76.25 Foot of descent. Clear rolling land bears
 N.E. and S.W. Enter level land bears N.E. and S.W.
 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 28 N, S 17, in
 N.W. R 14 E. S 16 in N.E. S 21 in S.E. and S 20
 in S.W. quadrants.
 Dig pits 18 x 18 x 12 ins. in each sec. 5 1/2 ft. dist.
 and raised mound of earth 4 ft. base 2 ft.
 high W. of cor.
 Land rolling.
 Soil sandy 3rd rate.
 No timber.

40.00 N 89° 59' E on a random line bet. sec. 16 and 21
 Set temp. 1/4 sec. cor.
 79.96 Intersect N and S. line 10 lks. N. of the cor. of
 sec. 15, 16, 21 and 22 ^{heretofore described} thence draw
 N 89° 57' W. on a true line bet. sec. 16 and 21
 Over rolling sandy land, through scattering
 sage and greasewood brush and bunch grass
 39.98 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 B 16 on N. half and S 21 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. base, 1 1/2
 ft. high. W. of cor.
 73.95 Nail to Oasis Arizona bears N.E. and S.W.
 79.96 The cor. of sec. 16, 17, 20 and 21, heretofore described.
 Land rolling.
 Soil sandy 3rd rate.
 No timber.

January 17th 1910

1910
 January 21st at 1st 00^{pm} l.m.t. Set off 35° 49' N. on
 the lat. arc. 19° 56' S. on the decl. arc, and ~~at the~~
~~to~~ determine a meridian with the solar at
 the cor. of sec. 16, 17, 20 and 21, ^{heretofore described} thence draw
 N 0° 03' W. bet. sec. 16 and 17

BOOK 2607

Over level sandy land through sage and greasewood bush undergrowth and bunch grass.
 12.00 Road to Oraibi Ariz. bears N.E. and S.W.
 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 17 on W. half and S 16 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.
 80.00 Set an iron post. 3 ft. long 2 ins. in diam 24 ins. in the ground for cor. of sec. 8, 9, 16 and 17 marked on brass Cap. T 28 N. S 8 in N.W. T 14 E. S 9 in N.E. S 16 in S.E. and S 17 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.
 Sand level.
 Soil sandy 3rd rate.
 No timber.

S 89° 57' E on a random line bet. sec. 9 and 16
 40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.04 Intersect N and S. line 2 lks. S. of the cor. of sec. 9, 10, 15 and 16, ^{heretofore described} thence run

N 89° 58' W. on a true line bet. sec. 9 and 16.

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

34.66 Old Road to Oraibi Ariz. bears N.E. and S.W.

40.02 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 9 on N. half and S 16 on S. 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. W. of cor.

80.04 The cor. of sec. 8, 9, 16 and 17, heretofore described.

Sand level.
 Soil sandy 3rd rate.
 No timber.

N 0° 03' W. bet. sec. 8 and 9.

Subdivision of Twp 28 N. R 14 E.

Chain

29

Over level sandy land through sage brush, undergrowth and bunch grass.

40,00 Set an iron post 3 ft. long 1 in. in diam. 2 in. in the ground for 1/4 sec. cor. mk'd on brass cap, 75 S. on W. half, and 39 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.

54,40 Left bank of the De Nebeto Wash. 40 ft. high bears N.E. and S.W.

55,10 Center of dry bed of wash course S.W.

55,90 Right bank of the De Nebeto Wash. 40 ft. high bears N.E. and S.W. thence over level sandy land.

80,00 Set an iron post 3 ft. long 2 in. in diam. 2 1/2 in. in the ground for cor. of secs. 4, 5, 8, and 9, marked on brass cap T 28 N S 5 in NW. T 14 E S 4 in N.E. 39 in S.E. and 38 in S.W. quadrants.

Dig pits 18 x 18 x 12 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 level. Soil sandy 3rd rate. No timber.

S 89° 58' E on a random line bet. secs. 4 and 9.

40,00 Set temp. 1/4 sec. cor.

79,98 Intersect N and S. line 5 lks. S. of the cor. of secs. 3, 4, 9 and 10 of ^{herebefore described} T 28 N S 5 in NW. Wash. on a true line bet. secs 4 and 9.

Over level sandy land through sage brush, undergrowth and bunch grass.

27,50 Left bank of the De Nebeto Wash bears N.E. and S.W.

28,75 Center of dry bed of Wash course S.W.

30,00 Right bank of the De Nebeto Wash 35 ft. high. Bears N.E. and S.W.

36,60 Right bank of the De Nebeto Wash. 30 ft. high. Bears N.W. and S.E.

38,40 Right bank of the De Nebeto Wash. 30 ft. high bears N.E. and S.W. thence over level land

BOOK 2607

39.99 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 4 on N. half and 39 on S half. Dig pits 18 x 18 x 12 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. W. of cor.

49.98 The cor. of secs 4, 5, 8 and 9, heretofore described. Land level.
Soil sandy 3rd rate.
No timber.

N $0^{\circ}03'$ W. Ch. sec. 4 and 5.

Over level sandy land through sage and greasewood brush undergrowth and bunch grass

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 5 on W. half and 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 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high. W. of cor.

77.62 Intersect the Seventh Standard Parallel North 322 lks. E. of the Standard $\frac{1}{4}$ sec. cor. on the S E. cor. of sec. 32. T₂₉N, R₁₄E. recently estab. by me and described in Standard Book "A"
Set an iron post 3 ft. long 2 in. in diam 24 in. in the ground for closing cor. of sec. 4 and 5 marked on brass. Cap C.C. T₂₉N, R₁₄E S 32. S 33. in North half. S 4 in S.E. and S 5 in S.W. quadrants.

Dig pits 24 x 18 x 12 ins. crosswise on each. line E and W. 3 ft. and S. of post 7 ft. dia. and raise a mound of earth 4 ft. base, 2 ft. high. S of cor.

Land level.

Soil sandy 3rd rate.

No timber.

NOTE

Clouds obscure the sun at noon today rendering an observation ^{for latitude} impossible

January 21st 1910

1910
January 18th A. H. 8^h 15^m a.m. D. set off. 35 $^{\circ}$ 46 $\frac{1}{4}$ ' N. on the bar arc. 20 $^{\circ}$ 35' S. on the decl. arc and determine

Chain

a meridian with the solar at the cor. of sec. recently estab. by me and described in Exterior Book "AD" 5.6. 31 and 32. on S. side of Np 1. Thence I run N 90° 03' W. beh. sec. 31 and 32.

17.50 Descend N. slope over rolling sandy land through scattering sage brush undergrowth and bunch grass. Land rolling toward N.E. and S.W. Enter hilly stony land toward N.E. and S.W.

40.00 Set an iron post 3 ft. long in. in diam. 26 in. in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap. N 90° 31' on W. half and S 92' on E. half.

Dig pits 18x18x12 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.

76.00 Foot of descent in depression, toward N.W. and S.E. Land hilly and toward N.W. and S.E. Enter rolling land toward N.W. and S.E.

80.00 Set an iron post 3 ft. long 2 in. in diam. 24 in. in the ground for cor. of sec. 29, 30, 31 and 32. marked on brass cap T 2876. S 90 in N.W. R14E S 29 in N.E. S 32 in S.E. and S 31 in S.W. quadrants. Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high. W. of cor. Pits impracticable.

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

40.00 Cross on a random line beh. sec. 29 and 32. Set temp. $\frac{1}{4}$ sec. cor.

80.04 Intersect N and S. line 12 lks. S. of the cor. of sec. 28, 29, 32 and 33 ^{heretofore described} Thence I run

S 89° 55' W. on a true line beh. sec. 29 and 32.

40.02 Descend W. slope over rolling sandy land through scattering sage brush undergrowth and bunch grass. Set an iron post 3 ft. long in. in diam. 26 in. in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap. N 90° 29' on N. half and S 32' on S. half.

Dig pits 18x18x12 in. East W. 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.

80.04 The cor. of sec. 29, 30, 31 and 32, ^{heretofore} described. Land rolling

BOOK 2607

Soil sandy 3rd rate.
No timber

Wash on a random line bet. sec. 30 and 31
40.00 Set temp. $\frac{1}{4}$ sec. cor.

7864 Intersects W. bdy of Twp ab. the cor. of sec. 29, 30,
recently set. by me and described in Exterior Book "AE"
31 and 36. $\frac{1}{4}$ mile from

East on a true line, bet. sec. 30 and 31.

Over gently rolling sandy land through sagebrush
undergrowth and bunch grass.

6.90 Road leads to Oraibi, Arizona. bears N.E. and S.W.

29.00 Begin gradual ascent over W. slope

38.64 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 30 on W. half and S 31 on E. half.

Dig pits 18x18x12 in. East W. 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.

74.50 Top of low sand ridge bears N. and S. desc.
gradually over E. slope

78.64 The cor. of sec. 29, 30, 31 and 32, heretofore described.
Sand rolling.

Soil sandy, 3rd rate.

No timber.

N 0° 03' W. bet. sec. 29 and 30.

Ascend S. slope over lumpy sandy land through sage
brush undergrowth and bunch grass

14.15 Top of sand ridge bears East W. desc.

20.00 Foot of descent in depression bears East W. drains
to the wash.

36.00 Top of stony ridge bears East W. desc.

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 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. Pitt impracticable

49.15 Sandstone ledge 8 ft. high bears N.E. and S.W. desc.

80.00 Set an iron post. 3 ft. long 2 in. in diam. 24 in.
in the ground for Cor. of sec. 19, 20, 29 and 30. marked

Subdivision of T28N. R14E.

Chains

on brass Cap T28N. S19 in N.W. R14E. S20 in N.E. S29 in S.E. and S30 in S.W. quadrants.

Dig pits 18x18x12 in. in each sec. 5 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.

NOTE At this cor. set off 20°35' S. on the decl. arc and at noon observe the sun on the meridian and obtain on the lat. arc. a reading of 35°48' N.

N89°55' E on a random line bet. secs. 20 and 29.

40.00 Set temp. 1/4 sec. cor

80.04 Intersect. rand S. line 3 lks. N. of the cor. of secs. 20, 21, 28 and 29, ^{herebefore described} Thence run

S89°56' W. on a true line bet. secs. 20 and 29.

Over rolling sandy land through sage brush undergrowth and bunch grass.

40.02 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 S20 on N. half and S29. on S. half. Raise a mound of stone 2 ft. base, 1 1/2 ft. high. N. of cor. Pits impracticable

80.04 The cor. of secs. 19, 20, 29 and 30, herebefore described.

Land rolling.
Soil sandy 3rd rate.
No timber.

Wash on a random line bet. secs 19 and 30

40.00 Set temp. 1/4 sec. cor.

78.56 Intersect. W. l. of N. 5 lks. S. of the cor. of ^{recently estab. by me and described in Exterior Book "AE"} secs. 19, 24, 25 and 30. Thence run

S89°58' E. on a true line bet. secs. 19 and 30.

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

18.90 Right bank of the De Neke to Wash. 25 ft. high bears N.E. and S.W.

20.00 Center of dry bed of Wash. course S.W.

23.00 Left bank. of the De Neke to Wash. 25 ft. high bears

Chain

BOOK 2807

- 38.56 NE and SW
Set an iron post 3 ft. long 1 in. in diam. 2 1/2 in. in the ground for 4 sec. cor. marked on brass cap 1/4 S 19 on N. half and S 30 on S. half.
Dig pits 18x18x12 ins. East W. of post 3 ft. dia. and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high W. of cor.
- 77.65 Old road leads to Oraibi Arizona bears N.E. and S.W.
- 78.56 The cor. of secs. 19, 20, 29 and 30, heretofore described.
Land level,
Soil sandy 3rd rate.
No timber.

January 18th 1910

1910
January 20th Ah. 8^h 00^m ^{limit} I set off. 35° 48' 76" on the Ah. arc. 20° 10' S. on the decl. arc. and determine a meridian with the solar at the cor. of secs 19 20 29 and 30 ^{heretofore described}. Thence I run
N 0° 03' W. bet. secs. 19 and 20.

Over rolling sandy and stony land through scattering sage bush muller growth and bunch grass

- 3.00 Old road to Oraibi Arizona bears N.E. and S.W.
- 40.00 Set an iron post. 3 ft. long 1 in. in diam. 2 1/2 in. in the ground for 4 sec. cor. marked on brass cap 1/4 S 19 on W. half and S 20 on E. half.
Raise a mound of stone 2 ft. base. 1 1/2 ft. high. W. of cor. Pits impracticable
- 44.00 Top of low sand ridge bears N.E. and S.W. desc. gradually.
- 80.00 Set an iron post. 3 ft. long 2 in. in diam. 2 1/2 in. in the ground for Cor. of secs. 17, 18, 19 and 20.
Marked on brass cap T 28 N. S 18 in N.W. R 14 E S 17 in N.E. S 20 in S.E. and S 19 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.
Soil sandy 3rd rate.
No timber.

N 89° 56' E on a sand dune bet. sec. 17 and 20.

Chain

- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.10 Intersect N and S. line at the cor. of secs. 16, 17.
^{herebefore described}
 20 and 21. Thence $\overline{\text{Drum}}$
 $S 89^{\circ} 56' W$, on a true line bet. secs 17 and 20.
 Over rolling sandy land through scattering sage
 brush undergrowth and bunch grass.
- 12.00 Road to Oraibi Arizona bears N.E. and S.W.
- 40.05 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
 $1/4 S 17$ on N. half and $S 20$ on S 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 $\frac{1}{16}$ of cor.
- 80.10 The cor. of secs. 17, 18, 19 and 20, herebefore described.
 Sand rolling
 Soil sandy 3rd rate.
 No timber

January 20th 1910

- January 21st ¹⁹¹⁰ At 8^h 00^m a.m. ^{l.m.t.} I set off. $35^{\circ} 49' 76''$
 on the lat. arc. $19^{\circ} 57' S$, on the decl. arc and
 determine a meridian with the solar at the
 cor. of secs. 17, 18, 19 ^{herebefore described} and 20. Thence $\overline{\text{Drum}}$.
 $N 79^{\circ} 58' W$, on a random line bet. secs. 18 and 19.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 78.42 Intersect W. ldy. of Twp. 10 hrs. S. of the cor. of secs
 recently estab. by me and described in Exterior Book "AE"
 13, 18, 19, and 24. Thence $\overline{\text{Drum}}$.
 $S 89^{\circ} 54' E$ on a true line bet. secs. 18 and 19.
 Over level sandy land through sage brush undergrowth
 and bunch grass.
- 31.40 Road to Navajo hogans. bears N.E. and S.W.
- 38.42 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 $1/4 S$
 18 on N. half and $S 19$ on S. 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 $\frac{1}{16}$ of cor.
- 67.80 Right bank of the De Nebeto Wash 30 ft. high bears
 N.E. and S.W.
- 68.40 Center of wash (dry) course S.W.
- 70.00 Lft. bank of the De Nebeto Wash 30 ft. high bears
 N.E. and S.W., thence over level land.

BOOK 2807

78.42 The cor. of secs. 17, 18, 19 and 20, hereinbefore described.
 Land level.
 Soil sandy 3rd rate.
 No timber.

N^o 03' W. lch. secs. 17 and 18.

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

29.25 Intersect lch. bank of the De Nebeto Wash 35 ft. high. bear N.E. and S.W. thence in bottom of wash.

32.20 Intersect lch. bank of the De Nebeto Wash. 25 ft. high. bear N.W. and S.E.

39.05 Intersect lch. bank of the De Nebeto Wash. 30 ft. high. bear N.E. and S.W.

40.00 The point for the $\frac{1}{4}$ sec. cor. falls in the bottom of the De Nebeto Wash. where natural causes would insure the destruction of the cor. therefore at

38.50 Set an iron post 3 ft. long 1 in. in diam. 26 in. in the ground for witness cor. to the $\frac{1}{4}$ sec. cor. marked on brass cap T 28 N. R 14 E. S 18 on W half. S 17 on E. half. and W.C. $\frac{1}{4}$ in N. half.

Dig pits 18 x 18 x 12 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.

40.78 Right bank of the De Nebeto Wash. 30 ft. high. bear N.E. and S.W. thence over level land.

80.00 Set an iron post 3 ft. long 2 in. in diam 24 in. in the ground for cor. of secs. 7, 8, 17 and 18. marked on brass cap T 28 N. S 7 in N.W. R 14 E. S 8 in N.E. S 17 in S.E. and S 18 in S.W. quadrant.

Dig pits 18 x 18 x 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.

Land level.

Soil sandy 3rd rate.

No timber.

N 89° 54' E. on a random line lch. secs. 8 and 17

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

79.98 Intersect N and S. line 12 lch. N. of the cor. of secs.

Chains

heretofore described
 8, 9, 16 and 17, Thence Drum
 S89°59' W. on a true line bet. secs. 8 and 17.
 Over level sandy land through scattering sage
 brush undergrowth and bunch grass.
 39.99 Set an iron post 3/4 ft. long 1 in. in diam 26 ins. in
 the ground for 1/4 sec. cor. marked on brass cap.
 1/4 58 on N. half and S 17 on S half.
 Dig pits 18x18x12 ins. E. and W. of post. 3/4 ft. dia.
 and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft.
 high N. of cor.
 57.90 Intersect left bank of the De Netho Wash. 40 ft.
 high bars. N.E. and S.W.
 58.50 Center of dry bed of wash course S.W.
 59.20 Right bank of the De Netho Wash. 40 ft. high bars
 N.E. and S.W. thence over level land.
 79.98 The cor. of secs. 7, 8, 17 and 18, heretofore described.
 Land level
 Soil sandy 3rd rate.
 No timber.

January 21st 1910.

1910
 January 22nd at 8^h 45^m a.m. l.m.t. Dr. off 35°50' N.
 on the lat. arc, 19°44' S. on the decl. arc. and
 determine a meridian with the solar at the cor.
 of secs. 7, 8, 17 and 18, ^{heretofore described} Thence Drum,
 N89°58' W. on a random line bet. secs. 7 and 18.
 40.00 Set temp. 1/4 sec. cor.
 78.36 Intersect W. l. of Np. 8 lks. S of the cor. of sec.
 7, 12, 13 and 18, ^{recently estab. by me and described in Section Book "AE"} Thence Drum
 S89°55' E. on a true line bet. secs. 7 and 18.
 Descend gradually S.E. slope over rolling sandy
 land through scattering sage and greasewood brush
 undergrowth and bunch grass.
 23.00 Dry sand wash 100 lks. wide 4 ft. deep course S.E. ac.
 gradually,
 33.00 Top of sand ridge bars N.W. and S.E. dir.
 38.36 Set an iron post 3/4 ft. long 1 in. in diam 26 ins. in the
 ground for 1/4 sec. cor. marked on brass cap. 1/4 37 on
 N. half and S 18 on S. half
 Dig pits 18x18x12 ins. E. and W. of post. 3/4 ft. dia. and
 raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high N. of
 cor.

BOOK 2607

53.00 Foot of descent. level rolling land bears N and S.
enter level land bears N and S.

57.85 Road to Navajo hogans bears N.E. and S.W.

78.36 The cor. of secs. 7, 8, 17 and 18, heretofore described.
Land level and rolling.
Soil sandy 3rd rate.
No timber

N 0° 03' W. 1/4 sec. 7 and 8.

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

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 S 7 on W. half and S 8 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.

41.00 Road to Navajo hogans bears N.E. and S.W.

80.00 Set an iron post 3 ft. long 2 ins. in diam. 24 ins.
in the ground for cor. of secs. 5, 6, 7 and 8.

marked on brass cap T 28 N S 6 in N.W. T 14 E S 5
in N.E. S 8 in S.E. and S 7 in S.W. quadrant

Dig pits 18 x 18 x 12 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 level.

Soil sandy 3rd rate.

No timber.

N 89° 59' E. on a random line 1/4 sec. 5 and 8.

40.00 Set temp 1/4 sec. cor.

79.96 Intersect N and S line at the cor. of secs 4, 5, 8
heretofore described
and 9. These 3 run

S 89° 59' W. on a true line 1/4 sec. 5 and 8.

Over level sandy land through sage and greas-
wood bush undergrowth and bunch grass.

39.98 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 5 on N. half and S 8 on S. half.

chain

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.

NOTE At this cor. Det. off 19° 43' S. on the decl. arc. and at noon observe the sun on the meridian and obtain on the lat. arc a reading of 35° 50 1/2' N.

45.00 Dry sand wash. 20 lbs. wide 2 ft. deep course S.E.

57.60 Old road to Navajo hogans bears N.E. and S.W.

79.96 The cor. of secs 5, 6, 7 and 8, hereinbefore described. Land level.

Soil sandy 3rd rate.
No timber

N 89° 55' W on a random line bet. secs 6 and 7.

40.00 Det temp. 1/4 sec. cor.

78.32 Intersect. W. line of Np. at the cor. of recently estab. by my apt. described in Exterior Book "A" Secs 1, 6, 7 and 12. Thence S run

S 89° 55' E. on a true line bet. secs 6 and 7. Ascend W. slope of ridge over rolling and hilly sandy land through scattering sage and greasewood bush undergrowth and bunch grass.

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

34.00 Foot of descent, level rolling and hilly land. bears N.E. and S.W. Enter level land bears N.E. and S.W.

38.32 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 456 on N. half and S 7. 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.

78.32 The cor. of secs. 5, 6, 7 and 8, hereinbefore described.

Land level, rolling and hilly.
Soil sandy 3rd rate.
No timber

N 0° 03' W. bet. secs. 5 and 6.

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

BOOK 2807

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 6 on W half and S 5 on E. half.

Dig pits 18 x 18 x 12 ins. N and S. of post 8 ft. dia. and raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high W. of cor.

77.52 Intersect the Seventh Standard Parallel North 325 lks. E. of the Standard $\frac{1}{4}$ sec. cor. on the S. side of Sec. 31, T₂₉N. R₁₄E, recently estab. by me and described in Standard Book "K"
Set an iron post 3 ft. long 2 in. in diam. 24 in. in the ground for closing cor. of secs. 5 and 6. marked on brass Cap C.C. T₂₉N. R₁₄E. S 31, S 32 in N. half, S 5 in S.E. and S 6 in S.W. quadrants. Dig pits 24 x 18 x 12 ins crosswise on each line S and W. 3 ft. and S. of post. 7 ft. dia. and raise a mound of earth 4 ft. base 2 ft. high S. of cor. Land level.

Soil sandy 3rd rate.

No timber.

January 22nd 1910

General Description.

This township contains every variety of land from level to mountainous, and the soil ranges from 1st to 4th rate.

The soil of the bottom land along the DeNebito Wash. is a rich sandy loam which produces good crops without the aid of irrigation; the soil of the remaining portion of the township except the mountainous and mesa portions can nearly all be classed as 3rd rate, is covered with a heavy growth of nutritious grasses.

This township is watered by the DeNebito Wash. which flows through the township in a southwesterly direction and flows water several months during the year.

Cedar and juniper timber is found over the mesa portions of the township, the trees being too small to be of any value except for firewood.

Coal occurring in large quantities under the mesa portions of the township, and no

see copy

doubt, much of the remainder of the township
at a greater depth.

There are several Indian settlements along
the De Nebits Wash.

January 22, 1910

Sidney E. Blout
U.S. Examiner of Surveys

This 22nd day of January 1910. I change the duties
of Chas L. Shumway from those of Axman
to those of moundman, no officer authorized
to administer oaths other than myself being
available without great inconvenience delay
and expense I administer the required
preliminary and final oaths.

Sidney E. Blout
U.S. Examiner of Surveys

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

LIST OF NAMES.

BOOK 2607

A list of the names of the individuals employed by Sidney E. Blouk
~~United States Deputy Surveyor~~, U. S. Examiner of Surveys, to assist in running, measuring, and
 marking the lines and corners described in the foregoing field notes of the survey of the Subdivisional
lines of Twp. 28 N. R. 14 E. of the Gila and Salt River base and Meridian,
 showing the respective capacities in which they acted: Van L. White, Compassman.
Fred L. Warner and T. J. White, Chainman.
Earl Albright, Chainman.
Ralph Sampson, Moundman.
~~Moundman.~~
Chas. L. Shumway, Axman.
~~Axman.~~
William R. Carson, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Sidney E. Blouk
~~United States Deputy Surveyor~~, U. S. Examiner of Surveys, in surveying all
 those parts or portions of the Subdivisional lines of Twp. 28 N., Range 14 E.
14 East

of the Gila and
Salt River Base and Meridian, Territory of Arizona, which are represented
 in the foregoing field notes as having been surveyed by him and under his direction; and that said survey
 has been in all respects, to the best of our knowledge and belief, well and faithfully ~~surveyed~~ ^{executed}, and the
 corner monuments established, according to the instructions furnished by the ~~United States Surveyor~~ ^{Commissioner}
~~General for~~ of the General Land Office, Van L. White Compassman
Earl Albright and Fred L. Warner, Chainman.
T. J. White, Chainman.
Ralph C. Sampson, Moundman.
~~Moundman.~~
Chas. L. Shumway, Axman.
~~Axman.~~
William R. Carson, Flagman.

Subscribed and sworn to before me this 22nd
 day of January 1910 190-



Sidney E. Blouk
U.S. Examiner of Surveys

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BOOK 2607

U. S. EXAMINER OF SURVEYS
FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Sidney E. Blout, U. S. Examiner of Surveys, ~~United States Deputy Surveyor~~, do solemnly swear that, in pursuance of Special Instructions received from the Commissioner of the ~~United States Surveyor General for~~ General Land Office, bearing date of the 2nd day of Oct. 1907 ~~and~~ and the 15th day of May, 1908, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the Commissioner ~~General for~~ of the General Land Office the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the Subdivisional lines of Tp. No. 28 N. Range No. 14 East

of the Gila and Salt River Base and Meridian, in the Territory of Arizona, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the Commissioner ~~General for~~ of the General Land Office and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Sidney E. Blout
~~United States Deputy Surveyor~~
Examiner of Surveys

Subscribed by said Sidney E. Blout and sworn to before me }
this 14th day of March, 1901

Frank J. Ingalls
SURVEYOR-GENERAL OF ARIZONA



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona, APR 25, 1901

The foregoing field notes of the survey of the Subdivision lines of
Township 28 North, Range 14 East, of the
Gila and Salt River Base and Meridian, Arizona.

executed by Sidney E. Blout U.S. Examiner of Surveys
under Special Instructions from the Commissioner of the General Land Office
~~the contract No.~~, dated October 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 J. Ingalls
~~United States Surveyor General~~
SURVEYOR-GENERAL OF ARIZONA

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~~