

Subdivisional
BOOK "ZL"

2616

BOOK 2616

FIELD NOTES

OF THE SURVEY OF THE

*Subdivision lines of Townships
No 29 North, Range No 14 East*

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

EXECUTED
AS SURVEYED BY

Van L. White U.S. Manutuan, ~~United States Deputy Surveyor,~~

Special Instructions from the Commissioner of the General Land Office

Under ~~his~~ Contract No. _____, dated Oct. 2nd 1907 and May 15th, 1908

Survey commenced September 29th, 1910

Survey completed October 12th, 1910

<i>T. Y. White</i>	<i>Chairman</i>
<i>Oscar W. Fetters</i>	<i>Chairman</i>
<i>Ralph C. Sampson</i>	<i>Moundman</i>
<i>George B. Seig</i>	<i>Axman</i>
<i>Nelson Polacca</i>	<i>Axman</i>
<i>William R. Carson</i>	<i>Flagman</i>

BOOK 2616

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(10)

WE, T. Y. White and Oscar W Fetters
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

Subdivision lines of Tp. 29 N. R. 17 E. of the G. & S. R. Base & Meridian, Arizona.

T. Y. White, Chainman.
Oscar W Fetters, Chainman.

Subscribed and sworn to before me this 26th
day of Sept., 1910



Van L. White
U.S. Transitman

WE, Ralph C. Sampson 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

Subdivision lines of Tp. 29 N. R. 17 E. of the G. & S. R. Base & Meridian, Arizona.

Ralph C. Sampson, Moundman.
Moundman.

Subscribed and sworn to before me this 26th
day of Sept., 1910



Van L. White
U.S. Transitman

WE, George B. Seig and Nelson Polacco
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

Subdivisions lines of Tp. 29 N. R. 17 E. of the G. & S. R. Base & Meridian, Arizona.

George B. Seig, Axman.
Nelson Polacco, Axman.

Subscribed and sworn to before me this 26th
day of Sept., 1910



Van L. White
U.S. Transitman

I, William R. Carson, 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

Subdivision lines of Tp. 29 N. R. 17 E.

William R. Carson, Flagman.

Subscribed and sworn to before me this 26th
day of Sept., 1910



Van L. White
U.S. Transitman

Survey commenced September 29th 1910 and executed with a Young & Sons light mountain transit No. 10 with a Smith solar attachment, the horizontal limb being provided with two double verniers placed opposite to each other reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

I examined the adjustments of the transit and finding them to be correct. I 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 determined by observation on Polaris that the instrument is in satisfactory adjustment.

Most last complete test of instruments see field notes of the survey of the east boundary of Twp 29 N, R 13 E, in Exterior Book "AQ"

At 7^h 21^m a.m. l.m.l. I set off $35^{\circ} 57\frac{1}{2}'$ N on the lat. arc, $2^{\circ} 11'$ S on the decl. arc, and determine a meridian with the solar alt. Standard cor. estab. by Sidney E. Blunt in Jan. 1910 & described in Standard Book "K" of secs. 35 and 36, T 29 N, R 14 E, thence I run N 0^o 01' W. l.p. secs. 35 and 36.

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

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{2}$ sec. cor marked in brass cap, $1\frac{1}{4}$ S. 35 on W. half and S 36 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.

44.00 Foot of descent. Leave rolling land. Head N 60^o E. and S 60^o W. Enter level land.

6844 Road leads to Craig, Arizona head N 35^o E. and S 35^o W.

80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for cor. of secs. 25, 26, 35 and 36. marked out brass cap T 29 N, S 26 in NW, R 14 E. S 25 in N.E. S 36 in S.E. and S 35 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 2 ft. high W. of

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

40.00 East on a random line bet. sec. 25 and 36.
Set temp 1/4 sec. cor.

80.04 Intersect. E. line of Twp. 10 lks. S. of the cor. of
sec. 25, 30, 31, and 36, ^{estab. by Sidney H. Blount in April 1909 & described in Exterior Book "W"} then E. line

89°56' W. on a true line bet. sec. 25 and 36.

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

40.02 Set an iron post 3 ft. long 1 in. in diam. 26 ins.
in the ground for 1/4 sec. cor. marked on base
cop. 1/4 S 25 on N. half and S 36 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.

40.25 Road bears N. and S. leads to Oraibi, Arizona, leads
rolling land bears N.E. and S.W. Enter level adobe
land bears N.E. and S.W.

80.04 The cor. of sec. 25, 26, 35, and 36, hereinbefore described.
Land rolling and level.
Soil sandy and adobe 2nd and 3rd rates.
No timber

N 0° 01' W. bet. sec. 25 and 26.

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

34.37 Road 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 1/4 S 26 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.

80.00 Set an iron post 3 ft. long 2 ins. in diam. 24 ins.
in the ground for cor. of sec. 23, 24, 25 and 26.
marked on base cop. T 29 N. S. 23 in N.W. R 14 E S 24

on
set

Chain

3

in N.E., S. 25 in S.E. and S 26 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 level and rolling.
Soil sandy and adobe 2nd and 3rd rate.
No timber.

NOTE - At this cor I set off 2° 16 1/2' S. on the decl arc and
at noon observe the sun on the meridian and
obtain on the lat. arc, a reading of 35° 53' N,

W 89° 56' E on a random line bet. sec 24nd & 26th
40.00 Set 1/4 sec. cor
80.00 Intersect E. l. by. of Pp. 3 lks. S. of the cor. of sec. 19
estab. by Sidney E. North April 1909 & described in Exterior Book "W"
24, 25 and 30. 1/4 sec. cor

S 89° 55' W. on a true line bet. sec. 24 and 25
Over rolling sandy and adobe land, through sage and
greasewood brush undergrowth and bunch grass

7.00 Dry sand wash 15 lks. wide, 3 ft. deep curved S.W.
Thence over level land.

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 24 on N. half and S 25 on S. half.

Dig pits 18x18x12 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.

43.65 Old road bears N and S.

54.25 Road bears N. and S.

80.00 The cor. of sec. 23, 24, 25 and 26, hereinbefore described.
Land level.

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

N 0° 01' W. bet. sec. 23 and 24.

Over level adobe 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 23 on W half and S 24 on E half.

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

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

80.00 Behav iron post. 3 ft. long 2 ins. in diam. 24 ins. in the ground for cor. of sec. 13, 14, 23 and 24 marked out brass cap T 29 N, S 14 in N.W., R 14 E S 13 in N.E., S 24 in S.E. and S 23 in S.W. quadrants Dig pits $18 \times 18 \times 12$ 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 level.
Soil sandy and adobe 2nd and 3rd rate.
No timber

September 29th 1910

October 5th 1910
At 7^h 49^m a.m. Sun set. Decl. off. $35^{\circ} 54'$
Now the lat. arc. $4^{\circ} 31\frac{1}{2}'$ S. on the decl. arc. and determine a meridian with the solar at the cor. of sec. 13, 14, 23, and 24 ^{above described} thence run $S 89^{\circ} 55' E.$ on a random line bet. sec. 13 and 24

40.00 Set temp. 1/4 sec. cor.,

80.04 Intersect E. line of Twp at the cor. of sec. 13, 18, 19 and 24 ^{estab. by Sidney E. Blount in April 1909 & described in Exterior Book "W"} thence run $S 89^{\circ} 55' W.$ on a true line bet. sec. 13 and 24

Over level adobe land, through sage and greasewood brush undergrowth.

1.50 Bear undergrowth bear N.E. and S.W. Enter cultivated land bears $N 60^{\circ} 00' E.$ and $S 20^{\circ} 00' W.$

9.50 Dry ravine 20 lbs. wide 3 ft. deep. course N.W.

14.75 Bear cultivated land bear N.E. 18.00 chs, ditch and S.W. 3.00 chs. ditch. Enter undergrowth.

32.15 Road from Oraibi, Arizona to Nuba, Arizona bears $N 60^{\circ} W.$ and $S 60^{\circ} E.$

40.02 Set an iron post. 3 ft. long 3 ins. in diam. 26 ins. in the ground for 1/4 sec. cor. marked out brass cap 1/4 S 13 on N. half and S 24 on S. half. Dig pits $18 \times 18 \times 12$ 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 N. of cor.

66.24 Road bears $N 20^{\circ} W.$ and $S 20^{\circ} E.$

80.04 The cor. of sec. 13, 14, 23, and 24 hereinbefore described.
Land level.
Soil adobe and sandy 2nd and 3rd rate.

No timber

N 0° 01' W, Feb. sec 13 and 14,

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

840 Dig sand wash 100 lbs. wide, 8 ft. deep course. S 70° W.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 in. in the ground for 1/4 sec. Cor. marked out brass cap. N 48° 14' 00" W half and S 13° 00' E. half.

Dig pits 18 x 18 x 12 in. 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.

43.25 Road from Oraibi Arizona to Pinal Arizona brass cap and W.

45.60 Left bank of the De Nebeto Wash 20 ft. high brass N 25° E and S 25° W. Course underground

49.30 Right bank of the De Nebeto Wash. 20 ft. high. Brass N 25° E. and S 25° W. Enter underground

80.00 Set an iron post 3 ft. long 2 in. in diam. 24 in. in the ground for cor. of sec. 11, 12, 13 and 14 marked out brass cap T 29 N., S 11 in N. W., R 14 E. S 12 in N. E. S 13 in S. E. and S 14 in S. W. quadrant. Dig pits 18 x 18 x 12 in. in each. sec. 5 1/2 ft. dia. and raise a mound of earth 4 ft. base 2 ft. high W. of cor.

Level level.

Soil sandy and adobe 2nd and 3rd rate.

No timber

N 89° 55' E on a random line Feb. sec. 12 and 13,

40.00 Set temp 1/4 sec. cor.

80.00 Intersect E. Feby. of Twp. 5 lks. S. of the Cor. of sec. 7, 12, 13, and 18, ^{estab. by Sidney E. Blount in April 1909 & described in Exterior Book "W"} thence S. same

S 89° 53' W. on a true line Feb. sec. 12 and 13.

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

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

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1/4 S₁₂ on W. half and S₁₃ on E. half.

Dig pits 18x18x12 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.

55.90 Left bank of the De Nebets Wash 20 ft. high. bears N.E. and S.W. Leads undergrowth.

57.20 Right bank of the De Nebets Wash. 20 ft. high. bears N.E. and S.W. Enters undergrowth.

80.00 The cor. of secs. 11, 12, 13 and 14, hereinbefore described.

Land level 1

Soil sandy and adobe 2nd and 3rd rate.

No timber

N^o 01 W. Ch. sec. 11 and 12.

Over level sandy and adobe 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 out bear cap.

1/4 S₁₁ on W. half and S₁₂ 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.

66.34 Road bears N 75° W and S 75° E, leads to Crater Crag.

80.00 Set an iron post 3 ft. long 2 ins. in diam, 24 ins. in the ground for cor. of secs 1, 2, 11 and 12, marked out bear cap. T₂₉N, S₂ in N.W. R₁₄E, S₁ in N.E. S₁₂ in S.E. and S₁₁ 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 level and rolling.

Soil sandy and adobe 2nd and 3rd rate.

No timber

NOTE At this cor. Det. of 4° 36' S. on the decl. arc and at noon observe the sun on the meridian and obtain a reading of 35° 56' N. on the lat. arc.

N 89° 53' E. on a random line Ch. sec. 1 and 12.

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- 40.00 Sec temp. $\frac{1}{4}$ sec. cor.
- 80.02 Intersect E bdy of $\frac{1}{4}$ S. lks. S. of the cor. of sec. 1, 2, 11 and 12, ^{estab. by Sidney E. Stout in April 1909 & described in Exterior Book "W"} ~~Chillicothe~~ ^{Chillicothe} ~~Drum~~ ^{Drum}
- $89^{\circ}50'$ W. on a true line bet. sec. 1, and 12.
- Ascend gently over S.E. slope through sage and greasewood brush undergrowth and bunch grass.
- 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 1 on N. half and $3/12$ 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 N. of cor.
- 80.02 The cor. of sec. 1, 2, 11 and 12, hereinbefore described.
- Land rolling.
- Soil sandy 2nd and 3rd rate.
- No timber

$0^{\circ}01'$ W. on a random line bet. sec. 1 and 2.

- 40.00 Sec temp $\frac{1}{4}$ sec. cor.
- 80.24 Intersect N. bdy. of $\frac{1}{4}$ S. at the cor. of sec. 1, 2, 35 ^{recently estab. by me & described in Exterior Book "AQ"} and 36, ~~Chillicothe~~ ^{Chillicothe} ~~Drum~~ ^{Drum}.
- $80^{\circ}01'$ E on a true line bet. sec. 1, and 2.
- Descend S.E. slope over rolling sandy land through sage and greasewood brush undergrowth and bunch grass
- 40.24 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 81 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.
- 80.24 The cor. of sec. 1, 2, 11 and 12, hereinbefore described.
- Land rolling.
- Soil sandy 3rd rate.
- No timber

October 15th 1910

Sept. 30th ¹⁹¹⁰ Ab. 7^h 51^m a.m. L.M.C. Dash off $35^{\circ}51\frac{1}{2}'$ N. on the lat. arc. $2^{\circ}35\frac{1}{2}'$ S. on the decl. arc. and determine a meridian with the solar

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Chain

at the Stand cor. of sec. 34 and 35 on S. side of
estab. by Sidney E. Blount in Jan. 1910 & described in Standard Book # K
M. A. Mendenham

10001' W. bet. sec. 34 and 35.

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

14.65 Road bears N40°E. and S40°W.

16.45 Road bears N30°E. and S30°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 34 on W. half and S 35 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. 26, 27, 34,
and 35 marked on brass cap. T 29 N. S. 27 in
N.W. R 14 E. S 26 in N.E. S 35 in S.E. and S 34
in S.W. quadrant

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 rolling.
Soil sandy 3rd rate.
No timber.

Chain on a random line bet. sec 26 and 35-

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

80.08 Intersect N and S line at the cor. of sec. 25, 26,
35, and 36, ^{hereinbefore described} Mendenham

Wish on a true line bet. sec. 26 and 35-

Over rolling sandy and a dobs land through
Sage and Greasewood bush undergrowth and
bunch grass.

27.08 Road bears N25°E and S25°W leads to
Craibi Arizona.

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 26 on N. half and
S 35 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. N. of cor.

80.08 This cov. of secs. 26, 27, 34 and 35, hereinbefore described.
Land rolling.
Soil sandy 3rd rate.
No timber

N^o 01 W. Secs. 26 and 27.

Descend NW slope over rolling sandy land through sage and greewood brush undergrowth and bunch grass.

6.65 Left bank of the De Nebeto Wash. 25 ft. high bank N.E. and S.W. Leard undergrowth bears N.E. and S.W.

16.28 Right bank of the De Nebeto Wash. 25 ft. high. bears N.E. and S.W. Cutw undergrowth 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. cov. marked on hand cap 4327 on W. half and 326 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 cov.

80.00 Set an iron post 3 ft. long, 2 ins in diam. 24 ins. in the ground for cov. of secs 22, 23, 26 and 27. marked on hand Cap. T 29 N, S 22 in NW, R 14 E. S 23 in N.E. S 26 in S.E. and S 27 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 cov.

Land rolling.
Soil sandy 3rd rate.
No timber

NOTE On this cov. I set off 2°40' S. on the decl. arc and on noon observⁿ the sun on the meridian the resulting latitude being 35°53' N.

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

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

80.10 Intersect N and S. line 3 lks. S. of the cov. of secs. 23, 24, 25 and 26, ^{hereinbefore described} thence S run.

S 89°59' W. on a true line bet. secs. 23 and 26

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- Over level adobe land, through sage and greasewood bush undergrowth and bunch grass
- 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 out 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. dist. and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high N. of cor.
- 45.54 Left bank of the De Nebeto Wash. 25 ft. high. bears $N50^{\circ}E.$ and $S50^{\circ}W.$ dense undergrowth bears N.E. and S.W.
- 49.62 Right bank of the De Nebeto Wash. 25 ft. high. bears $N50^{\circ}E.$ and $S50^{\circ}W.$ enters undergrowth bears N.E. and S.W.
- 80.10 The cor. of secs, 22, 23, 26, and 27, hereinbefore described.
Land level
Soil sandy and adobe 2nd and 3rd rate.
No timber

No oil well h. secs, 22 and 23.

Over rolling sandy and adobe 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 $\frac{1}{4}$ sec. cor. marked out brass cap $\frac{1}{4}$ S 22 on W. half and S 23 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.
- 80.00 Set an iron post, 3 ft. long 2 ins. in diam. 24 ins. in the ground for cor. of secs, 14, 15, 22, and 23 marked out brass cap T 29 N. S 15 in NW. R 14 E. S 14 in N.E. S 23 in S.E. and S 22 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, 2 ft. high W. of cor.
Land rolling
Soil sandy 3rd rate.
No timber

September 30th 1910.

175
35

- Oct. 6th 1910 At 7^h 19^m a.m. L. m. l. D. set off. $35^{\circ}54'N$,
 on the lab. arc, $4^{\circ}54' S$. on the decl. arc and
 determine a meridian with the solar on the
 cor. of sec. 14, 15, 22, and ^{above described} 23, thence Drum
 $178^{\circ}59' E$, on a random line bet. sec. 14 and 23.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.08 Intersect N. and S. line 5 lks. S. of the cor. of sec.
 13, 14, 22 and ^{hereinbefore described} 24, thence Drum
 $89^{\circ}57' W$. on a true line bet. sec. 14 and 23.
 Over level sandy land through sage and greasewood
 brush undergrowth and bunch grass
 13.26 Dry sand wash 50 lks. wide 10 ft. deep course S.W.
 34.48 Righ bank of the De Nebeto Wash. 25 ft. high bears
 $N30^{\circ} E$. and $S30^{\circ} W$. Leads undergrowth bears
 N.E. and S.W.
 35.90 Righ bank of the De Nebeto Wash. 25 ft. high.
 bears $N30^{\circ} E$. and $S30^{\circ} W$. Enter undergrowth
 bears N.E. and S.W.
 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 14 on N. half and S 23 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 N. of cor.
 42.70 Bear level land bears N.E. and S.W. Enter rolling
 land. Ascend gentle S.E. slope
 51.00 Top of sand ridge bears N. and S. desc. gently
 65.65 Dry ravine 10 lks. wide course $S45^{\circ} E$. bare.
 80.08 The cor. of sec. 14, 15, 22, and 23, hereinbefore described.
 Land rolling and level.
 Soil sandy ^{red} rate,
 No timber

$N0^{\circ}01' W$, bet. sec. 14 and 15 -
 Ascend gently over S.E. slope through sage and
 greasewood brush undergrowth and bunch
 grass.

- 35-55 Dry ravine 15 lks. wide 4 ft. deep course $S45^{\circ} E$.
 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 15 on W half and S 14 on E half.
 Dig pits 18 X 18 X 12 ins. N and S. of post 3 ft. dia.

BOOK 2616

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. 10, 11, 14, and 15 marked
out bears Cap. T 29 N. S 10 in N.W. R 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. dia.
and raise a mound of earth 4 ft. base 2 ft. high
W. of cor.
Land rolling.
Soil sandy 3rd rate.
No timber

W 89° 57' E on a random line bet. sec. 11 and 14
40.00 Set trip 1/4 sec. cor.
80.02 Intersect N and S. line at the cor. of sec. 11, 12, 13
and 14, ^{hereinbefore described} thence Drum
S 89° 57' W. on a true line bet. sec. 11 and 14
Around S.E. slope over rolling sandy land through
sage and greasewood brush undergrowth and
bunch grass.

10.77 Road to Oraibi Arizona bears N.W. and S.E.

30.25 Road from Oraibi Arizona to Nuba Arizona bears
N.W. and S.E.

40.01 Set an iron post 3 ft. long 1 in. in diam. 26 ins.
in the ground for 1/4 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 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.

67.00 Top of sand ridge bears N 30° E. and S 30° W. dec.

76.25 Dry ravine 15 lbs. wide, 3 ft. deep. Course S 40° E.
dec.

80.02 The cor. of sec. 10, 11, 14 and 15, hereinbefore described.
Land rolling and hilly
Soil sandy 3rd rate.
No timber

N 0° 01' W. bet. sec. 10 and 11

Around gradually over S.E. slope through sage

Chains

Subdivision of Twp 29 N., R 14 E.

and greasewood brush undergrowth and bunch grass.

3.25 Dry ravine 10 lbs. wide, 2 ft. deep course S.E.

6.00 Top of ridge bears E. and W. desc. gently.

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 100 W. half and S 11 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.

70.05 Road from Oraibi Arizona to Pinta Arizona bears $N 40^{\circ} W.$ and $S 40^{\circ} E.$

80.00 Saw iron post 3 ft. long 2 ins. in diam 24 ins. in the ground for cor. of sec. 2, 3, 10 and 11, marked on brass cap. T 29 N S 3 in NW, R 14 E S 2 in NE, S 11 in SE. and S 10 in SW 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 and hilly.

Soil sandy 3rd rate.

No timber

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

$N 89^{\circ} 57' E.$ on a random line bet. sec. 2 and 11

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

79.98 Intersect N. and S. line 02 lbs. S. of the cor. of sec. 1, 2, 11 and 12, ^{hereinbefore described} thence $\frac{1}{4}$ sec.

$S 89^{\circ} 56' W.$ on a true line bet. sec. 2 and 11

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

25.30 Road to Oraibi Arizona bears N. and S.

39.99 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 2 on N. half and S 11 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. N. of cor.

79.98 The cor. of sec. 2, 3, 10 and 11, hereinbefore described.

Land rolling

Soil sandy 3rd rate.

No timber

40.00 No^o 01' W. as a random line bet. sec. 2 and 3.
 Set temp. 1/4 sec. cor.

80.26 Intersect N. boundary of Twp. On the cor. of sec. 2, 3, 34
 and 35, ^{recently estab. by map & described in Exterior Book "AQ"} Muncie Drain.

S^o 01' E. as a true line bet. sec. 2 and 3.

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

40.26 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 3
 on W. half and S 2 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. tall, 1 1/2 ft.
 high. W. of cor.

43.30 Dry ravine 20 lbs. wide 2 ft. deep course S.E.

80.26 The cor. of sec. 2, 3, 10 and 11, hereinbefore described.

Slope rolling.

Soil sandy 3rd rate

No timber

October 6th 1910.

October 1st 1910! Ab. 7^h 20^m a.m. L. M. C. D. set off
 35° 51 1/2' N. on the lat. arc, 2° 57 1/2' S. on the decl. arc,
 and determine a meridian with the solar at the
 Standard Cor. of sec. 33 and 34 on S. boundary of Twp.
^{estab. by Sidney E. Blunt in Jan. 1910 & described in Standard Book "K"}
 Muncie Drain

N^o 02' W. bet. sec. 33 and 34.

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

6.20 Dry sand wash 20 lbs. wide banks 2 ft. high course
 S 45° W.

20.75 Left bank of the De Nebits Wash 30 ft. high course S 60° W
 Leaves undergrowth bears N.E. and S.W.

22.56 Right bank of the De Nebits Wash 30 ft. high bears
 N 60° E and S 60° W. Enters undergrowth 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.
 1/4 S 33 on W half and S 34 on E half.

Subdivision of No 29 N, R14E

Chain

15

- 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.
- 41.00 Rear level land bears N.E. and S.W. Enter rolling land across gradually over S.E. slope.
- 80.00 Set an iron post 3 ft. long 2 ins. in diam. 24 ins. in the ground for cor. of secs 27, 28, 33 and 34 marked on brass Cap. T 29 N. S 28 in N.W. R 14 E. S 27 in N.E., S 34 in S.E. and S 33 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.
- Land level and rolling.
Soil sandy 3rd rate.
No timber
-
- 40.00 Set a random line bet. sec 27 and 34
- 80.02 Set a 1/4 sec. cor.
- 80.02 Intersect N and S. line 3 lbs. S. of the cor. of secs. 26, 27, 34 and 35 ^{hereinbefore described} thence S 89° 59' W. over a true line bet. sec. 27 and 34
- Over level adobe land through sage and greasewood brush undergrowth and bunch grass
- 12.00 R/L bank of the De Nebito Wash 30 ft. high bears N 45° E. and S 45° W. Rear undergrowth bears N.E. and S.W.
- 26.25 R/L bank of the De Nebito Wash. 30 ft. high bears N 45° E and S 45° W. Enter undergrowth area. S.E. slope over rolling sandy land.
- 30.65 Dry sand wash 36 lbs. wide 5 ft. deep course South.
- 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 27 on N. half and S 34 on S. half
- Dig pits 18x18x12 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.
- 80.02 The cor. of secs. 27, 28, 33 and 34, hereinbefore described.
- Land level and rolling.
Soil sandy and adobe 2nd and 3rd rate
No timber

16 Chains
BOOK 2616N^o 02 W. bet. secs. 27 and 28.

Ascend S.E. slope over rolling sandy and adobe 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 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. 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 in. in diam 24 in. in the ground for cor. of secs. 21, 22, 27 and 28. marked on brass cap. T 29 N, S 21 in NW, R 14 E S 22 in NE.

S 27 in S.E. and S 28 in SW. 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

N 89° 59' E on a random line bet. secs. 22 and 27.

40.00 Set temp. $\frac{1}{4}$ sec. cor.80.04 Intersect N and S. line 3 lvs. S. of the cor. of secs. 22, 23, 26 and 27 ^{hereinbefore described} thence S run

S 89° 58' W. on a true line bet. secs. 22 and 27

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

40.02 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 22 on N. half and S 27 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 N. of cor.

80.04 The cor. of secs. 21, 22, 27 and 28, hereinbefore described.

Land rolling.

Soil sandy 3rd rate.

No timber

N^o 01 W. bet. secs. 21 and 22.

1. Ascend S.E. 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 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.

NOTE On this cor. D set off $3^{\circ} 0' 3''$ S. on the decl. arc and at noon observe the sun on the meridian and obtain a reading of $35^{\circ} 53' N.$ on the lab. arc.

80.00 Set an iron post 3 ft. long 2 ins. in diam. 24 ins. in the ground for cor. of secs. 15, 16, 21 and 22. marked on brass cap T₂₉N, S₁₆ in NW., R₁₄E S₁₅ in NE. S₂₂ in S.E. and S₂₁ 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

W₈₉^{58'} E on a true line bet. sec. 15 and 22.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.02 Intersect N. and S. line at the cor. of secs. 14, 15, 22 and 23, ^{hereinbefore described} thence run S₈₉^{58'} W. on a true line bet. sec. 15 and 22
 ascend S.E. slope over rolling sandy land through sage and greasewood brush undergrowth and bunch grass

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 15 on N. half and S 22 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. N. of cor.

80.02 The cor. of secs. 15, 16, 21, and 22, hereinbefore described.
 Land rolling,
 Soil sandy 3rd rate.
 No timber

October 1st 1910.

BOOK 2616

October 7th 1910
 At 7^h 48^m a.m. L.M. V. Dren off. 35° 54' N.
 on the lat. arc. 5° 17½' N, on the decl. arc and
 determine a meridian with the solar at the cor.
 of secs. 15, 16, 21, and 22^{herein before described}
 thence run
 N 0° 02' W. bet. sec. 15 and 16.

Around S.E. slope over rolling sandy land through
 sage and greasewood, brush undergrowth and
 bunch grass.

17.00 Prof. of sand ridge bears E and W. desc.

24.70 Dry ravine 10 lbs. wide course East. asc.

40.00 Set an iron post 3 ft. long 1 in. in diam. 26 in. in
 the ground for ¼ sec. cor. marked on brass cap. ¼
 S 16 on W. half and S 15 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 3½ ft. base, 1½ ft. high W.
 of cor.

57.51 Road bears N 25° E and S 25° W.

80.00 Set an iron post 3 ft. long 2 in. in diam. 24 in.
 in the ground for cor. of sec. 9, 10, 15 and 16.
 marked on brass cap T 29 N. 39 in N.W. R 14 E.
 S 10 in N.E. S 15 in S.E. and S 16 in S.W. quadrant.
 Dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist.
 and raise a mound of earth 4 ft. base, 2 ft.
 high W. of cor.

Land rolling.
 Soil sandy & gravelly.
 No timber

N 89° 58' E. on a random line bet. sec. 10 and 15.
 40.00 Set temp ¼ sec. cor.

80.10 Intersect N. and S. line 5 lbs. S. of the cor. of sec.
 10, 11, 14 and 15^{herein before described}
 thence run

S 89° 56' W. on a true line bet. sec. 10 and 15

Around S.E. slope over rolling sandy land through
 sage and greasewood brush undergrowth and
 bunch grass.

40.05 Set an iron post 3 ft. long 1 in. in diam. 26 in.
 in the ground for ¼ sec. cor. marked on brass cap.
 ¼ S 10 on N. half and S 15 on S. half.

Dig pits 18 x 18 x 12 ins. East W. of post 3 ft. dist.
 and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.

Subdivision of Tp 29 N., R 14 E.

Chau

19

71.42 Road bears N.E. and S.W.

80.10 The cor. of sec. 9, 10, 15 and 16, hereinbefore described.
Land rolling.
Soil sandy 3rd rate.
No timber

N 0° 02' W. line sec. 9 and 10.

Around S.E. 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 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. dia. and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high. W. of cor.

79.00 Note of ridge bear E and W, due.

80.00 Set an iron post 3 ft. long, 2 in. in diam. 24 ins. in the ground for cor. of sec. 3, 4, 9, and 10 marked on brass cap T 29 N., S 4 in N.W. R 14 E. S 8 in N.E., S 10 in S.E. and S 9 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 rolling.
Soil sandy 3rd rate.
No timber

NOTE On this cor I set off 5° 22 1/2' S. on the decl. arc and at noon observe the sun on the merid. arc and obtain a reading of 35° 56' N. on the lab. arc.

N 89° 56' E on a random line bet. sec. 3 and 10

40.00 Set temp. 1/4 sec. cor.

80.14 Intersect N and S line 5 lks N. of the cor. of sec. 2, 3, 10, and 11, ^{hereinbefore described} hence true

S 89° 58' W on a true line bet. sec. 3 and 10.

Around S.E. slope over rolling sandy land through sage and greasewood brush undergrowth and bunch grass.

10.96 Road from Oraibi Arizona, to Pinal Arizona bears

- 745° W. and S 45° E.
- 30.03 Road to Water hole bears N and S.
- 40.07 See an iron post 3 ft. long 1 in. in diam. 26 in. in the ground for $\frac{1}{4}$ sec. cor. marked out bears Exp. $\frac{1}{4}$ S 3 on N. half and S 10 on S. half.
Dig pits 18 x 18 x 12 in. E and W. of post 3 ft. dist. and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
- 65.00 Top of stony ridge bears N. and S. desc. gently.
- 78.38 Foot of declivity in depression, bears NW. and S. E. drains to the S. E. arc.
- 80.14 The cor. of secs. 3, 4, 9, and 10, hereinbefore described.
Land rolling
Soil sandy and stony 3rd rate.
No timber
-
- 110° 02' W. on a random line bet. secs 3 and 4
- 40.00 See temp. $\frac{1}{4}$ sec. cor.
- 80.22 Intersect N. bdy. of Twp. 12 lkw. $58^{\circ} 57' W$ the cor. of secs. 3, 4, 33, and 34, ^{recently estab. by the & described in Exterior Book "AQ"} these three
80° 03' W. on a true line bet. secs. 3 and 4
Descend S. E. slope over hilly sandy land through sage and greasewood brush undergrowth and bunch grass.
- 12.62 Road from Oraibi Arizona to Puba Arizona bears
75° W. and S 50° E.
- 15.70 Dry ravine 30 lkw. wide 5 ft. deep course S. E. arc.
- 40.22 See an iron post 3 ft. long 1 in. in diam. 26 in. in the ground for $\frac{1}{4}$ sec. cor. marked out bears Exp. $\frac{1}{4}$ S 4 on W. half and S 3 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.
- 45.00 Sand stone ledge 5 ft. high. bears N. E. and S. W.
- 53.20 Top of sand ridge bears N. E. and S. W. desc.
- 78.05 Dry ravine 20 lkw. wide course S 40° E. arc gently.
- 80.22 The cor. of secs. 3, 4, 9 and 10, hereinbefore described.
Land rolling and hilly.
Soil sandy and stony 3rd and 4th rate.
No timber

October 7th 1910.

¹⁹¹⁰
 October 3rd Ch. 7th 20^m a.m. Lined Strip off 35° 51 1/2' N on
 the lat. arc, 3° 44 1/2' S. on the decl. arc and determined a
 meridian with the solar on the Stand. Cor. of sec. 32 and
 33. on S. side of ^{estab. by Sidney E. Blout in Jan. 1910 & described in Standard Book "K"} ~~the~~ ^{Chancel} ~~Drum~~

No 03 W. Cor. sec. 32 and 33.

Ascend S.E. slope over rolling sandy land through sage
 and greasewood bush undergrowth and bunch grass
 40.00 See 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 32 on
 W. half and S 33 on E. half.

80.00 Dig pits 18 X 18 X 12 in. 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.
 See an iron post 3 ft. long 2 in. in diam. 24 in. in the ground
 for cor. of sec. 28, 29, 32 and 33. marked on brass cap
 T 29 N. S 29 in N.W., R 14 E S 28 in N.E., S 33 in S.E. and S 32
 in S.W. quadrants.

Dig pits 18 X 18 X 12 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 rolling.
 Soil sandy 3rd rate.
 No timber.

40.00 See on a random line bet. sec. 28 and 33.

80.02 See temp. 1/4 sec. cor.
 Intersect N and S. line at the cor. of sec. 27, 28, 33
 and 34 ^{hereinbefore described} ~~the~~ ^{Chancel} ~~Drum~~

With on a true line bet. sec. 28 and 33.

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

40.01 See 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 28 on W. half and S 33 on S. half.

Dig pits 18 X 18 X 12 in. E and 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.

80.02 The cor. of sec. 28, 29, 32, and 33, hereinbefore described.

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

BOOK 2616

N 0° 03' W. Feb. sec. 28 and 29.

Around S.E. slope over rolling sandy land through sage and greasewood bush undergrowth and bunch grass.

12,33 Road to Water hole bears N 30° E and S 30° 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 29 on W half and S 28 on E. half.Dig pits 18 X 18 X 12 ins. N. and S. of post 3 ft. diam. and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high. W. of cor.NOTE At this cor. Dip off $3^{\circ} 50'$ S. on the decl. arc and at noon observe the sun on the meridian and obtain a reading of $35^{\circ} 52\frac{1}{2}'$ N. on the lat. arc.

80.00 Set an iron post 3 ft. long 2 in. 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., R 14 E, S 21 in N.E. S 28 in S.E. and S 29 in S.W. quadrants.

Dig pits 18 X 18 X 12 ins. in each sec. $5\frac{1}{2}$ ft. diam. and raise a mound of earth 4 ft. base, 2 ft. high. W. of cor.

Land rolling.

Soil sandy 3rd rate.

No timber

EARTH A random line Feb. sec. 21 and 28.

40.00 Set temp. $\frac{1}{4}$ sec. cor.80.02 Intersect N. and S. line 3 lks. S. of the cor. of sec. 21, 22, 27 and 28, ^{hereinbefore described} Mineral Spring

S 89° 59' W. on a true line Feb. sec. 21 and 28.

Around S.E. slope over rolling sandy land through sage and greasewood bush undergrowth and bunch grass.

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 21 on N. half and S 28 on S. half.Dig pits 18 X 18 X 12 ins. E and W. of post 3 ft. diam. and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high. N of cor.

47.60 Road to Water hole bears N 20° E and S 20° W.

80.02 The cor. of sec. 20, 21, 28, and 29, hereinbefore described.

Land rolling

Soil sandy 3rd rate.

No timber

October 3rd 1910.

Subdivision of Twp 29 N., R 14 E.

Chain

¹⁹¹⁰
 October 8th, 1910, 7^h 48^m am. L. m. L. Sun off 35° 53' N, on the lat. arc. 5° 40 1/2' S, on the decl. arc, and determined a meridian with the solar alt. the cor. of sec. 20, 21, 28 and 29, ^{hereinbefore described} thence I run

N 0° 03' W, 1/4 sec. 20 and 21.
 Around S.E. slope over hilly, sandy land through sage and greasewood bush undergrowth and bunch grass

- 34.00 Leave sandy land bears N.E. and S.W. Enter stony land.
- 39.00 Top of stony ridge bears E and W. extends 150 lbs E of line due.
- 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 20 on W. half and S 21 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 1/2 ft. base, 1 1/2 ft. high W. of cor.

- 70.70 Dry round 40 lbs. wide curved S 75° E arc.
- 79.60 Top of 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. 16, 17, 20, and 21, marked on brass cap T 29 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. 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 hilly.
 Soil sandy and stony 3rd and 4th rate.
 No timber

N 89° 59' E. on a random line bet. sec. 16 and 21.

- 40.00 Set temp. 1/4 sec. cor.
- 80.12 Intersect N and S. line 5 lbs. S. of the cor. of sec. 15, 16, 21 and 22, ^{hereinbefore described} thence I run.

S 89° 57' W, on a true line bet. sec. 16 and 21
 Over rolling sandy land through sage and greasewood bush undergrowth and bunch grass.

- 19.45 Road bears N 15° E. and S 15° W.
- 40.06 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 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.

- 55.00 Leave rolling sandy land bears N and S. Enter stony hilly land, on E. slope.

24

Chain

BOOK 2616

80.12

The cor. of sec. 16, 17, 20 and 21, hereinbefore described.
 Land rolling and hilly.
 Soil sandy and stony 3rd and 4th rate.

NOTE

At this cor. I set off $5^{\circ}45'$ S. on the decl. arc and at noon
 observed the sun on the meridian and obtained a reading
 of $35^{\circ}54'$ N. on the lat. arc.

$N 0^{\circ}03' W$. bet. sec. 16 and 17.

Descend N slope over hilly sandy land through sage
 and greasewood bush undergrowth.

2.70 Dry rammed course East. arc.

7.25 Top of ridge bears $N 50^{\circ} E$ and $S 50^{\circ} W$. desc.

11.20 Dry rammed course $N 50^{\circ} E$. arc.

39.20 Top of ridge bears E and 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 $N 45^{\circ} 17'$ on W half and
 $S 16^{\circ}$ on E half.

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

Pts. impracticable

44.00 Dry rammed course East. arc.

56.00 Top of ridge bears E and W. desc.

58.25 Dry rammed course East. arc.

61.00 Top of sand ridge bears E and W. desc.

69.80 Dry rammed course East. arc.

80.00 Set an iron post 3 ft. long 2 in. in diam. 24 ins. in the
 ground for cor. of sec. 8, 9, 16, and 17, marked on brass cap
 $T 29 N$, $S 8$ in NW , $R 14 E$, $S 9$ in NE , $S 16$ in SE . and $S 17$ in
 $S.W.$ quadrant.

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

Land hilly.

Soil sandy and stony 3rd and 4th rate.

No timber

$N 89^{\circ} 57' E$ on a random line bet. sec. 9 and 16.

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

80.18 Intersect N. and S line 2 lth S. of the cor. of sec. 9
 10, 15 and 16, ^{hereinbefore described} thence S. run.

$S 89^{\circ} 56' W$. on a true line bet. sec. 9 and 16.

Schaiv

Subdivision of Pp 29 N., R 14 E.

25

- Ascend S.E. slope over rolling sandy land, through sage and greasewood brush undergrowth and bunch grass
- 40.09 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 $\frac{1}{4}$ 59 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 raised mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
- 54.00 Top of sand ridge bears N and S. desc. Leave rolling land bears N.E. and S.W. Enter hilly land,
- 55.05 Dry ravine 15 lbs. wide course S.E. asc.
- 76.20 Top of rocky ridge bears N. and S. desc.
- 78.75 Dry ravine 30 ft below top of ridge course S.E. asc.
- 80.18 The cor. of secs. 8, 9, 16 and 17, hereinbefore described.
- Land rolling and hilly.
- Soil sandy and stony 3rd and 4th rate.
- No timber

October 8th 1910

October 10th 1910
 At 7^h 47^m am level. Ditch off $35^{\circ}55'$ N. on the lat. arc. $6^{\circ}26\frac{1}{2}'$ S. on the decl. arc and determine a meridian with the solar alt. the cor. of secs. 8, 9, 16 and 17, hereinbefore described
 Thence I run

N $0^{\circ}03'$ W. bet. secs. 8, and 9.

Ascend steep rocky S.E. slope over stony hilly land.

- 23.80 Top of aspen on S. edge of mesa bears N.E. and S.W. Enter scattering cedar timber bears N.E. and S.W. are gradually.
- 29.00 Top of sand ridge bears E. and 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 $\frac{1}{4}$ 58 on W. half and 59 on E. half from which.
- A cedar 10 ins. in diam. bears $N 85\frac{3}{4}^{\circ} E$ 103 lbs. dist. marked $\frac{1}{4}$ 59 B.T. and
- A cedar 8 ins. in diam. bears $N 79\frac{1}{4}^{\circ} W$ 93 lbs. dist. marked $\frac{1}{4}$ 58 B.T.
- 42.85 North edge of mesa bears $N 25^{\circ} W$. and $S 26^{\circ} E$. desc. abruptly.
- 53.10 Dry ravine 100 ft below top of mesa course east. asc.
- 67.00 Top of steep aspen on S. edge of mesa bears E and W ascend gradually.
- 80.00 Set an iron post 3 ft. long 2 ins. in diam. 24 ins. in the ground for cor. of secs. 4, 5, 8, and 9, marked on brass cap.

Subdivision of T29N, R14E.

Chain

BOOK 2616

T29N. S5 in NW., R14E S4 in NE., S9 in SE. and S8 in SW. quadrant from which.

A cedar 7 ins. in diam bears N76 1/4° E 81 lks. dist. marked T29N, R14E S4 B.T.

A cedar 9 ins. in diam bears S6 1/2° E 57 lks. dist. marked T29N, R14E S9 B.T. and

A cedar 10 ins. in diam bears S72° W. 75 lks. dist. marked T29N, R14E S8 B.T. No other trees available.

Dig pit 36 X 36 X 12 ins. in sec 5. 8 ft. dist and raise a mound of earth 4 ft. base 2 ft. high W. of cor.

Land hilly

Soil sandy and stony 3rd and 4th rate.

Timber Cedar

N89° 56' E. on a random line bet. sec. 4 and 9.

40.00 Set temp 1/4 sec. cor.

80.16 Intersect N and S. line 3 lks. N. of the cor. of sec. 3, 4, 9, and 10, ^{hereinbefore described} thence run

S89° 57' W. on a true line bet. sec. 4 and 9.

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

40.08 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for 1/4 sec. cor. marked on base cap 1/4 S 4 on N. half and S 9 on S. half.

Dig pit 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 N. of cor.

53.50 Leave rolling land bears N.E. and S.W. Enter hilly land ascend steep E. slope of mesa.

71.15 Top of steep ascent on E. edge of mesa 300 ft. high bears N. and S. ascend gradually. Enter scattering cedar timber bears N.E. and S.W.

80.16 The cor. of sec. 4, 5, 8 and 9, hereinbefore described.

Land rolling and hilly.

Soil sandy and stony 3rd and 4th rate.

Timber Cedar

NOTE At this cor. I set off 6° 31' S. on the decl. arc. and at noon observe the sun on the meridian and obtain a reading of 35° 56' N. on the lab. arc.

N0° 03' W. on a random line bet. sec. 4 and 5

40.00 Set temp 1/4 sec. cor.

chains

27

- 80.26 Intersect N. bdy. of Twp 18 lks 589.51^W of the cor. of sec. 4, 5, recently estab. by the & described in Exterior Book "AQ" 32 and 33, thence S run.
- S 0° 05' W. on a true line bet. sec. 4 and 5.
- Around N.E. slope over hilly sandy and clayey land, through scattering sage and greasewood bush undergrowth.
- .20 Top of clay ridge bears N.W. and S.E. desc.
- 20.65 Dry ravine 10 lks wide course East. are.
- 24.60 Top of clay ridge bears E and W. desc.
- 33.85 Dry ravine 10 lks wide course east. are.
- 40.26 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 5 on W. half and S 4 on E. half
- Raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable.
- 40.55 Top of ridge bears E and W. desc.
- 45.50 Dry ravine course N 55° E. are.
- 61.00 Top of aspen on N. edge of mesa bears N 45° W. and S 45° E., asc. gradually. Enter scattering cedar timber bears N.W. and S.E.
- 79.00 Top of ridge bears E and W. desc.
- 80.26 The cor. of sec. 4, 5, 8, and 9, hereinbefore described.
- Road hilly.
- Soil sandy clayey and stony 3rd and 4th etc.
- Timber cedar.

October 10th 1910

- October 4th 1910
- Ch. 7^h 19^m a.m. L. m. L. D. run off 35° 51' 1/2' N. on the lat. are. 4° 07' S. on the decl. are and determine a meridian with the solar alt. the Stand. cor. of sec. 31 and 32 on S. bdy. of Twp. 1 thence S run
- estab. by Sidney F. Blout in Jan. 1910 & described in Standard Book "K"
- W 0° 03' W. bet. sec. 31 and 32.
- Around S.E. slope over rolling sandy land through sage and greasewood bush undergrowth and bunch grass
- 40.00 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 31 on W. half and S 32 on E. half.
- Dig pits 15 x 18 x 12 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.
- 73.00 Top of ridge bears E and W. desc.
- 80.00 See an iron post 3 ft. long 2 ins. in diam. 24 ins. in the ground for cor. of sec. 29, 30, 31 and 32. marked on brass cap T 29 N 530 in N.W., R 14 E. S 29 in N.E. S. 32 in

28 Chain
BOOK 2616

in S.E. and 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

Each on a true line bet. secs. 29 and 32.
40.00 Set trap 1/4 sec. cor.
80.04 Intersect N. and S. line 5 lks. S. of of the cor. of sec. 28,
29, 32 and 33 ^{hereinbefore described} thence Drive.
S 89° 58' W. on a true line bet. secs. 29 and 32.
Ascend S.E. slope over rolling sandy land through sage
and greasewood brush undergrowth and bunch grass
6.82 Road to water hole bears N 30° E and S 30° W.
40.02 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 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. base 1 1/2 ft. high N. of cor.
45.80 Dry sand wash 60 lks. wide 10 ft. deep course S 40° E.
80.04 The cor. of sec. 29, 30, 31 and 32, hereinbefore described.
Land rolling.
Soil sandy 3rd rate.
No timber

Each on a true line bet. sec. 30 and 31
40.00 Set trap 1/4 sec. cor.
79.98 Intersect W. line of Tp at the cor. of sec. 25, 30, 31
^{recently estab. by the & described in Exterior Book "A Q"}
and 36, thence Drive
Each on a true line bet. sec. 30 and 31.
Ascend W. slope over hilly sandy and clayey land,
through scattering sage brush undergrowth and bunch grass
15.00 Top of ridge bears N. and S. desc.
28.00 Dry ravine course south asc.
31.25 W. of clay ridge bears N. and S. 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 30 on
N. half and S 31 on S half.
Dig pits 18x18x12 ins. East W. of post 3 ft. dist. and

- 50.17 raise a mound of earth 3½ ft base, 1½ ft high. W. of cor.
Dry ravine course south.
- 56.00 Top of ridge bears N. and S. descend gradually
over rolling sandy land.
- 79.98 The cor. of sec. 29, 30, 31 and 32, hereinbefore described.
Land rolling and hilly.
Soil sandy and clayey. 3rd and 4th rate
No timber

NOTE At this cor. I set off 4°13' S. on the decl. arc and at
noon observed the sun on the meridian and obtain
a reading of 35°52' N. on the lat. arc.

N 0°03' W. bet. sec. 29 and 30.

Ascend S.E. slope over rolling sandy land through
sage and greasewood brush undergrowth and
trench grass

16.70 Dry ravine 20 lbs. wide 2 ft deep course S 35° E.

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 S.
30 on W half and S 29 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 3½ ft base 1½ ft high W.
of cor.

64.00 Top of ridge bears NW and S.E., down rolling land
bears N.E. and S.W. Enter hilly land. decl.

68.45 Dry ravine course S.E. asc.

73.00 Top of ridge bears NW. and S.E. desc.

80.00 The point for the cor. of sec. 19, 20, 29, and 30, falls
in the bottom of dry ravine 20 lbs. wide course
S 30° E. where natural causes would insure the
destruction of the corner, therefore I continued my line
N 0°03' W. and at.

80.50 Set an iron post 3 ft. long. 2 ins. in diam. 24 ins. in the
ground for witness corner to the cor. of sec. 19, 20,
29 and 30. marked on brass cap. W.C. in N. half
T 29 N S 19 in NW. R 14 E S 20 in N.E. S 29 in S.E. and
S 30 in S.W. quadrants.

Raise a mound of stone 2 ft. base 1½ ft. high. W. of cor.

Pits. impracticable
Land rolling and hilly.

Subdivision of Np. 29N, R14E.

Chain

BOOK 2616

Soil sandy and clayey 3rd rate.
No timber

N 89° 58' E on a random line bet. secs. 20 and 29, from the true point for cor. of secs 19, 20, 29, and 30.

40.00 Set temp 1/4 sec. cor.

80.10 Intersect N. and S. line 2 lks. S. of the cor. of secs. 20, 21, 28, and 29, ^{hereinbefore described} thence ~~run~~ ^{run}

S 89° 57' W. on a true line bet. secs. 20 and 29.

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

37.35 Top of ridge bears N. and S. desc.

40.05 Set an iron post 3/4" long 1 in in diam. 26 in. in the ground for the sec. cor. marked on brass Cop 1/4 S 20 on N. half and S 29 on S. half.

Raise a mound of stone 2 ft base, 1 1/2 ft high. 26. of cor. Pits impracticable.

45.00 Dry ravine 15 lks. wide course S 25° E. asc.

53.30 Top of ridge bears N and S. desc gradually.

68.60 Dry ravine course South asc.

71.00 Top of ridge bears N and S. desc.

74.75 Dry ravine 20 lks. wide course S.E. asc.

78.00 Top of ridge bears N and S. desc.

80.10 The point for cor. of secs. 19, 20, 29 and 30, ^{hereinbefore described} ~~described~~.
Land hilly

Soil sandy and clayey 3rd rate.
No timber

October 14th 1910.

¹⁹¹⁰
October 11th 7^h 17^m a.m. L.M. Dreb off 35° 53' N. on the lat. arc. 6° 48' S. on the decl. arc. and determine a meridian with the solar at the true point for cor. of secs. 19, 20, 29, and 30, ^{hereinbefore described} ~~described~~ thence ~~run~~ ^{run}

Then on a random line bet. secs. 19 and 30.

40.00 Set temp 1/4 sec. cor.

80.00 Intersect W. bdy. of Np. 5 lks. N. of the cor. of secs. 19, 24, 25 and 30, ^{recently estab. by me 12 described in Exterior Book "AQ"} thence ~~run~~ ^{run}

N 89° 58' E. on a true line bet. secs. 19 and 30.

Over rolling sandy mesa land through scattering cedar timber and sage brush undergrowth

6.25 Each edge of mesa 250 ft high bears N and S. bears

Subdivision of N^o 29th, R 14th E

Chain

31

- rolling land, and timber bears N and S. Enter broken stony hilly land. Descend abruptly on E slope of mesa
- 39.60 Dry rocky terrain on foot of steep descent course south. ascend. steeply.
- 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 19 on N. half and S 30 on S. half.
Raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor. Pits impracticable
- 47.00 Top of sand ridge bears N. and S. desc.
- 52.70 Dry ravine course S. E. asc.
- 65.00 Top of ridge bears N. and S. desc.
- 69.00 Dry ravine course South. asc.
- 77.00 Top of ridge bears N. W. and S. E. desc
- 80.00 The fourth for cor. of secs. 19, 20, 29, and 30, ^{hereinbefore} described.
Land rolling and hilly.
Soil sandy and stony 3rd and 4th rate.
Timber Cedar.

W^o 03' W. bet. secs. 19 and 20.

- Ascend S. W. slope over stony hilly land, through sage brush undergrowth and bunch grass.
- 0.50 W. E. to cor. of secs. 19, 20, 29 and 30 hereinbefore described.
- 9.00 Top of rocky ridge 35 ft. above witness cor. bears E and W. desc.
- 13.05 Dry ravine course S 70° E. asc.
- 33.35 Top of rocky ridge bears E and W. desc.
- 36.85 Dry ravine course S 60° 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 19 on W. half and S 20 on E half.
Raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor. Pits impracticable
- 55.26 Top of arched on S. edge of mesa 200 ft. high.
Over hilly land bears E and W. Enter rolling sandy land. ascend gradually. Enter cedar timber bears E and W
- 75.00 Top of sand ridge bears E and W. have timber bears N. E. and S. W.
- 80.00 Set an iron post 3 ft. long 2 in. in diam. 24 ins. in the ground for cor. of secs. 17, 18, 19, and 20 marked on brass cap. T 29 N. S 18 in N. W. R 14 E S 17

Subdivision of N¹/₂ 29 N, R 14 E.

32

Chain

BOOK 2616

in N.E. S 20 in S.E. and S 19 in S.W. quadrants.
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 12 ft. high W.
of cor.

Land rolling, hilly, and broken.
Soil sandy and stony 3rd and 4th rate.
Timber Cedar

40.00 W 89° 57' E on a random line bet. sec. 17 and 20.
Set temp. 1/4 sec. cor.

80.12 Intersect N and S. line S. lks. N. of the cor. of sec. 16,
17, 20, and 21, ^{hereinbefore described} ~~thence~~ run.

West. on a true line bet. sec. 17 and 20.

Ascend steep N.W. slope over hilly sandy and
clayey land through sage and greasewood brush
undergrowth.

5.55 Dry ravine course N.E. asc. steep E. slope of mesa

37.60 Top of step arched on E. edge of mesa 300 ft. high.
Leave hilly land bet. N. and S., enter rolling sandy
land and scattering cedar timber bet. N. and S.

40.06 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 17 on
N. half and S 20 on S. half, from which.

A cedar 4 ins. in diam. bears N 6 3/4° E 59 lks. dist.
marked 1/4 S 17 B.T.

A cedar 7 ins. in diam. bears S 60 1/4° E 65 lks. dist.
marked 1/4 S 20 B.T.

NOTE At this cor. Det. off 6° 53 1/2' S; on the decl. arc and
at noon observe the sun on the meridian and
obtain a reading of 35° 54' N. on the lab. arc.

44.00 Leave timber bet. N. and S.

80.12 This cor. of sec. 17, 18, 19 and 20, hereinbefore described.

Land rolling and hilly.

Soil sandy and clayey 3rd and 4th rate.

Timber Cedar.

S 89° 58' W. on a random line bet. sec. 18 and 19.

40.00 Set temp 1/4 sec. cor.

79.72 Intersect W. l. of N. 12 lks, S. of the cor. of sec.
13, 18, 19, and 24, ^{recently established} ~~me~~ described in Exterior Book "AQ"
~~thence~~ run

- $89^{\circ}57' E$ on a true line bet. sec. 18 and 19,
 Overrolling sandy mesa land through scattering cedar
 timber and sage brush undergrowth and bunch grass
 3.52 Road from Oraibi Arizona to Puba Arizona bears
 N.W. and S.E.
 5.00 Dry ravine 60 lbs. wide 20 ft. deep curved north
 13.00 Road from Oraibi Arizona to Puba Arizona bears
 N.E. and S.W.
 39.72 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 $\frac{1}{4}$
 $S 78^{\circ} 0' W$ half and $S 19^{\circ} 0' W$ half, from which.
 A cedar 8 in. in diam. bears $N 55^{\circ} W 179$ lbs. dist.
 marked $\frac{1}{4} S 18 B.T.$ No other trees available
 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. Leave timber bears N and E.
 79.72 The cor. of sec. 17, 18, 19 and 20, hereinbefore described.
 Sand rolling.
 Soil sandy 3^d rate.
 Timber Cedar.

- $W 0^{\circ} 3' W$, bet. sec. 17 and 18.
 Overrolling sandy mesa land through sage
 brush undergrowth and bunch grass.
 32.00 Enter scattering cedar timber bears 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 $\frac{1}{4}$
 $S 18^{\circ} 0' W$ half and $S 17^{\circ} 0' E$ half, from which.
 A cedar 14 in. in diam bears $S 34\frac{1}{4}^{\circ} E 77$ lbs. dist.
 marked $\frac{1}{4} S 17 B.T.$ and
 A cedar 8 in. in diam bears $S 83\frac{3}{4}^{\circ} W 11$ lbs. dist.
 marked $\frac{1}{4} S 18 B.T.$
 54.85 Road from Oraibi Arizona to Puba Arizona bears
 $N 20^{\circ} E$, and $S 20^{\circ} W$.
 76.00 Leave timber bears N.E. and S.W.
 79.65 Sand stone ledge 5 ft. high bears N.E. and S.W. due.
 80.00 Set an iron post 3 ft. long 2 in. in diam. 24 in.
 in the ground for cor. of sec. 7, 8, 17, and 18, marked
 on brass cap. T 29 N 8 7 in N.W., R 14 E S 8 in N.E.
 S 17 in S.E. and S 18 in S.W. quadrant.
 Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.

BOOK 2616

Practically
Land rolling and broken
Soil sandy 3rd and 4th rate.
Number Cedar.

Oct. 11 - 1910

- 1910
October 12th Ch. 7^h 17^m a.m. (m. l. 2) sub off. 35° 55'
Now the lat. arc. 7° 10' S. on the decl. arc and
determine a meridian with the solar at the cor. of
secs. 7, 8, 17 and 18, ^{above described} thence S run.
Cut on a random line bet. secs. 8 and 17,
40.00 Set temp 1/4 sec. cor.
80.16 Intersect N. and S. line 3 lks. N. of the cor. of secs.
8, 9, 16 and 17, ^{hereinbefore described} thence S run.
N 89° 57' W. on a true line bet. secs. 8 and 17.
Ascend steep rocky E. slope of mesa over broken
hilly land, through sage and greasewood bush
undergrowth.
17.00 Top of steep ascent on E. edge of mesa 250 ft. high.
Leaves N.E. and S.W. Leave hilly land leaves N.E. and
S.W. Enter rolling sandy land
40.08 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. N 8 on N half and S 17 on S half.
Dig pits 18x18x12 ins 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.
47.00 Enter scattering cedar timber leaves N. and S.
59.27 Road from Oraibi Arizona to Pinta Arizona leaves
N and S. on top of divide leaves N and S. desc.
77.20 Dry ravine course north, leaves timber leaves N. and
S.
79.70 Top of ridge leaves N. and S. desc.
80.16 The cor. of secs. 7, 8, 17, and 18, hereinbefore described.
Land rolling and hilly.
Soil sandy 3rd rate.
Number Cedar.

- N 89° 57' W. on a random line bet. secs. 7 and 18,
40.00 Set temp 1/4 sec. cor.
79.60 Intersect W. bdy. of Twp 5 lks. N. of the cor. of secs.

Chain

recently estab. by me & described in Exterior Book "AQ"
 7, 12, 13, and 18, *thence* *Drum*
 S 89° 59' E. on a true line bet. sees. 7 and 18.
 Descend E slope over stony hilly land, through
 sage brush undergrowth.
 36.10 Dry ravine 30 lbs. wide course north asc.
 39.60 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 N 4 S
 7 on N. half and S 18 on S. half
 Raise a mound of stone 2 ft. base, 1 1/2 ft. high. N. of
 cor. Pits impracticable
 41.75 Top of arched. *Learn* hilly land bears N and S., enter
 rolling sandy mesa land.
 50.00 Enter scattering cedar timber bears N.W. and S.E.
 66.90 West edge of canyon bears N and S., *Learn* rolling land.
 bears N and S. Enter stony hilly land, descend abruptly
 70.00 Dry ravine in bottom of canyon course north asc.
 74.00 Top of rocky ridge bears N. and S. desc., *Learn*
 timber bears N. and S.
 76.40 Dry rocky ravine course north ascend steeply
 79.60 The cor. of sees. 7, 8, 17, and 18, hereinbefore described.
 Land rolling, hilly, and broken.
 Soil sandy and stony 3rd and 4th rate.
 Timber Cedar.

N 0° 03' W. bet. sees. 7 and 8.
 Descend N slope over stony hilly land, through
 scattering sage and greasewood brush undergrowth.
 14.00 Dry ravine course west. asc.
 17.95 Top of ridge bears E and W, extends W of line 7.00 ch.
 desc.
 19.25 South edge of canyon bears E. and W, desc.
 21.50 Bottom of canyon 40 ft. deep course west. asc.
 23.35 North edge of canyon bears E. and W. *thence* over
 rolling land.
 38.00 Head of canyon course west. Enter scattering cedar
 timber bears E and 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 N 4 S 7 on
 W. half and S 8 on E. half from which.
 A cedar tree in drain bears N 45° E 56 lbs. dist.
 marked $\frac{1}{4}$ S 8 B.T. and.

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- A cedar 16 ins. in diam bears S 31 1/2° W 68 lbs. dist. marked 1/4 S 7 BT.
- 44.25 Pop of ridge bears E and W. desc. gradually over N. slope.
- 64.00 Leave timber bears N.E. and S.W.
- 80.00 Set an iron post 3 ft. long 7/8 in. in diam 24 ins. in the ground for cor. of secs 5, 6, 7, and 8. marked on brass cap T 29 N, S 6 in N.W., R 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. dist. and raise a mound of earth 4 ft. base, 2 ft. high. W. of cor.
Sand rolling shilly and broken.
Soil sandy and stony 3rd and 4th rate.
Timber Cedar

NOTE At this cor. I set off 7° 16 1/2' S. on the decl. arc and at noon observed the sun on the meridian and obtain a reading of 35° 56' N. on the lat. arc

- 89° 57' E on a random line bet. secs. 5 and 8.
- 40.00 Set temp 1/4 sec. cor.
- 80.12 Intersect N. and S. line 5 lbs. N. of the cor. of secs. 4, 5, 8 and 9 ^{here before described} thence run
N 89° 57' W on a true line bet. secs. 5 and 8.
Overrolling sandy mesa land through scattering cedar timber and sage brush undergrowth
- 38.00 Leave timber bears N and S.
- 40.06 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. from which.
A cedar 20 ins. in diam. bears N 66 1/4° E 258 lbs. dist. marked 1/4 S 5 BT. and
A cedar 18 ins. in diam. bears S 60 1/2° E 326 lbs. dist. marked 1/4 S 8 BT.
- 54.05 Road from Oraibi Arizona to Pinta Arizona bears N.E. and S.W.
- 78.75 Road bears N.W. and S.E.
- 80.12 The cor. of secs 5, 6, 7 and 8, here in before described.

Lehavis

Land rolling.
Soil sandy 3rd rate
No timber

- 40.00 Set temp $\frac{1}{4}$ sec. cor.
- 79.44 Intersect W. ldy of Twp 12 lbs. N. of the cor. of
res. 1, 6, 7 and 12, ^{recently estab. by me & described in Exterior Book "AQ"} thence run
N $89^{\circ} 59'$ W. on a random line bet. secs. 6
and 7,
N $89^{\circ} 56'$ E on a true line bet. secs. 6 and 7,
Descend E. slope over sandy and stony land through
sage and greasewood brush undergrowth and bunch
grass.
- 0.95 Dry ravine 10 lbs. wide course north. asc.
- 7.86 Top of ridge bears N and S. desc.
- 11.40 Dry ravine 15 lbs. wide course north asc.
- 33.00 Top of sand ridge bears $N 20^{\circ} W.$ and $S 20^{\circ} E$ desc.
- 37.70 Dry ravine 25 lbs wide course $N 25^{\circ} W.$
- 39.44 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 N. half and S 7 on S. half.
Raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft high ~~N~~
of cor. Pits impracticable.
- 50.60 Top of ascent on W. edge of mesa 100 ft.
high bears N and S. Pass hilly land bears
N and S. Enter rolling land bears N and S.
- 79.44 The cor. of secs. 5, 6, 7, and 8, hereinbefore described.
Land rolling and hilly.
Soil sandy 3rd rate.
No timber

- 40.00 Set temp $\frac{1}{4}$ sec. cor.
- 80.06 Intersect N. ldy of Twp. 30 lbs. $S 89^{\circ} 57'$ W. of the cor.
of secs. 5, 6, 31, and 32, ^{recently estab. by me & described in Exterior Book "AQ"} thence run
S $0^{\circ} 10'$ W. on a true line bet. secs. 5 and 6.
Descend S.E. slope over hilly sandy land through
sage brush undergrowth and bunch grass
and scattering cedar timber.
- 14.80 Begin abrupt ascent over sandstone ledge

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- 8 ft. high. bears N.E. and S.W.
- 15.50 Top of ledge bears N60° E and S60° W., bears hilly land bears N.E. and S.W., center rolling land bears N.E. and S.W.
- 20.00 Sear's timber bears E and W
- 40.06 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. U4 S6 on W. half and S5 on E. half. Dig pits 18x18x12 in. 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.
- 70.20 Road bears N20° W. and S20° E.
- 80.06 The cor. of secs. 5, 6, 7 and 8; hereinbefore described. Land rolling and hilly. Soil sandy 3rd and 4th rate. Timber cedar

October 12th 1910.

General Description

This township contains every variety of land, from level bottom to high broken mesa and the soil ranges, from barren sand stone to a sandy loam. The soil of the bottom land along the De Nebeto Wash in the eastern and south eastern parts of the township is a sandy loam, capable of producing various kinds of short season crops without irrigation. The soil of the remainder of the township, except the steep ridges and bluffs along the high mesa in the north western part of the township can nearly all be classed as third rate. is covered with an abundant growth of bunch grass, but is not suitable for agricultural purposes. The soil of the ridges which lead down from the mesa and the mesa bluffs is nearly all 4th rate land, producing only a scant growth of greasewood and sage brush. The mesa portion of the township is underlain with sand stone, which is too soft however for use as a building material. No mineral deposits were found in the township. However from surface indications

it is very probable that extensive coal beds underlie the mesa portion of the township below the sand stone strata.

The only water in the township occurs in pools formed in the De Nebets Wash in time of floods. However I think that water can be developed in the De Nebets Valley by sinking wells.

Scattered groves of cedar timber is found on the mesa in the north western part of the township the trees however are too small to be of any value except for fire wood and posts for fencing purposes.

Jan L. White.

U.S. Geologist

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

BOOK 2616

LIST OF NAMES.

A list of the names of the individuals employed by Van L. White

U.S. Transitman, ~~United States Deputy Surveyor~~, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of Subdivision lines of Tp. 29 N. R 17 E. of the G. & S. R. Base & Meridian Arizona showing the respective capacities in which they acted:

- T. Y. White, Chainman.
- Oscar W. Fetters, Chainman.
- Ralph C. Sampson, Moundman.
- George B. Seig, Axman.
- Nelson Polacco, Axman.
- William R. Carson, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Van L. White

U.S. Transitman, ~~United States Deputy Surveyor~~, in surveying all those parts or portions of the subdivision lines of Tp. 29 N. R 17 E.

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 ^{executed} surveyed, and the corner monuments established, according to the instructions furnished by the ~~United States Surveyor General for~~ Commissioner of the General Land Office

- T. Y. White, Chainman.
- Oscar W. Fetters, Chainman.
- Ralph C. Sampson, Moundman.
- George B. Seig, Axman.
- Nelson Polacco, Axman.
- William R. Carson, Flagman.

Subscribed and sworn to before me this 13th day of Oct., 1910

Van L. White
U.S. Transitman



BOOK 2616

FINAL OATH OF ~~UNITED STATES~~ ^{TRANSITMAN} ~~DEPUTY SURVEYOR~~:

I, Van L. White, U.S. Transitman, ~~United States Deputy Surveyor~~, do solemnly swear that, in pursuance of ~~a contract~~ ^{Special Instructions} received from ~~the Commissioner of the United States Surveyor General~~ ^{of the General Land Office}, bearing date of the 2nd day of Oct. 1907 ~~day of~~ 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 ~~United States Surveyor General~~ ^{Commissioner 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 Subdivision lines of Township No. 29 North, of Range No. 14 East of the Gila and Salt River Base and Meridian

of the Meridian, in the Territory of Arizona, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the ~~United States Surveyor General~~ ^{Commissioner 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.

Van L. White
~~United States Deputy Surveyor~~
Transitman

Subscribed by said Van L. White, and sworn to before me }
this 27th day of December, 1913

Lytton R. Taylor
U.S. Commissioner
at Las Vegas, N.M.



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix Arizona **APR 25**, 1914

The foregoing field notes of the survey of the
Subdivision lines of

Township No 29 North, Range No 14 East of the
Gila and Salt River Base and Meridian, Arizona
executed by VAN. L. WHITE, U.S. Transitman, under Special Instructions from
~~executed by~~ the Commissioner of the General Land Office
~~under his contract No.~~ 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 S. 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.~~