

Subdivisional
BOOK 0

2593

MAR. 28. 1911

FIELD NOTES

and Resurvey
OF THE SURVEY OF THE

BOOK 2593

Subdivision lines of Township No. 29
North of Range No. 19 E. 4th.

Of the Gila and Salt River Basins and Meridian,

the Territory of Arizona

EXECUTED
AS SURVEYED BY

Sidney E. Stout, United States Engineer & Surveyor

Under Special Instructions from the Commissioner of the General Land Office
dated Oct. 2nd 1907 and May 15th 1908

and Resurvey
Survey commenced February 2nd, 1907

and Resurvey
Survey completed February 20th, 1907

1A 54

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NAMES AND DUTIES OF ASSISTANTS.

Van L White Compassman

Jay E Jellick Chairman

Lafayette Jennings Chairman

Arthur C Beard Chairman

Pred L Warner Moundman

Chas L Shumway Cy man

Harry Lake Nay Plagman

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Book No. 2593

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Resurveyed Meanders Page Surveyed

PRELIMINARY OATHS OF ASSISTANTS.
See Subdivisional Book "M"

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 Feb. 3rd 1909 and executed with a W^{and} S. C. Surley engineers transit No. 10 with a Burk 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 reading to 0' 30" of arc.

Examine the adjustments of the transit and correct the level and collimation errors, then to test the solar apparatus by comparing the results of observations on the sun, made during a.m. and p.m. hours, with a meridian determined by observation on Polaris I proceed as follows

At my camp, which is situated near the center of sec 22. T₂₉ N. R₁₉ E., Latitude $35^{\circ} 53\frac{1}{2}'$ N. Longitude $110^{\circ} 18'$ W., I set off $35^{\circ} 53\frac{1}{2}'$ N. on the lat arc, $16^{\circ} 26\frac{1}{2}'$ S. on the decl arc, and at 4^h 50^m p.m. l.m.t. determined a meridian with the solar and mark a point thereof by a tack driven in a stake set in the ground 5 chs. N. of my instrument

At 10^h 26.7^m p.m. l.m.t. by my watch which is correct local mean time, I observed Polaris at western elongation, in accordance with instructions in the Manual and mark the line thus determined by a tack driven in a wooden peg set in the ground 5 chs. N. of my instrument

February 3rd 1909

February 4th 1909 At 7^h 30^m a.m. l.m.t. I lay off the azimuth of Polaris, $1^{\circ} 27'$ to the east and mark the meridian thus determined by a tack driven in the stake already set 5 chs. N. of my instrument on which the meridian falls 0.3 ins east of the point determined by the solar.

At 8^h 0^m a.m. l.m.t. I set off $35^{\circ} 53\frac{1}{2}'$ N. on the lat arc, $16^{\circ} 44\frac{1}{2}'$ S on the decl. arc, and determine a meridian with the solar and mark a point thereof by a tack driven in the stake already set 5 chs N. of my instrument; this point falls 0.1 ins east of the meridian established by the Polaris

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observation

The solar apparatus, by pm. and am. observations defined positions, for meridians, about 0'15" west and 0'05" east of the meridian established by the Polaris observation; therefore, I conclude that the adjustments of the instrument are satisfactory. I begin at the Standard Cor. of sec. 35 and 36 which I established Oct-26, 1908, Latitude $35^{\circ}51'28''$ N. Longitude $110^{\circ}16'11''$ W. and described in Standard Book "C"

On 9th 30^m a.m. ^{limit} I set off $35^{\circ}51\frac{1}{2}'$ N. on the lat. arc. $16^{\circ}14\frac{1}{2}'$ S. on the decl. arc and determined a meridian with the solar

Thence I run

$N0^{\circ}01'W$. for sec. 35 and 36.

ascend S. slope over rolling sandy land. through scattering cedar timber and bunch grass.

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

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 $\frac{1}{4}$ S 35 on W. half and S 36 on E half., from which
A cedar 4 ins. in diam. bears $N16^{\circ}E$ 60 lvs. dist. marked $\frac{1}{4}$ S 36 B.T.

A cedar 7 ins. in diam. bears $N54\frac{1}{2}'W$ 207 lvs. dist. marked $\frac{1}{4}$ S 35 B.T.

66.40 North edge of mesa bears E. and W. leave rolling land bears E. and W. descend abruptly rocky N. slope over mountainous land bears E. and W.

75.00 Foot of abrupt rocky descent; leave mountainous land bears E. and W. enter hilly land bears E. and W.

80.00 Set an iron post 3 ft. long 2 ins. in diam. 24 ins. in the ground for Cor. of sec. 25, 26, 35 and 36. marked on bears Cap T 29 N. S 26 in N.W. R19 E. S 25 in N.E. S 36 in S.E. and S 35 in S.W. quadrants. from which.

A cedar 10 ins. in diam. bears $N32^{\circ}E$ 50 lvs. dist. marked T 29 N. R19 E S 25 B.T.

A cedar 9 ins. in diam. bears $S54^{\circ}E$ 35 lvs. dist. marked T 29 N. R19 E S 36 B.T.

A cedar 14 ins. in diam. bears $S82\frac{1}{2}'W$ 164 lvs. dist. marked T 29 N. R19 E. S 35 B.T.

A cedar 7 ins. in diam. bears $N23\frac{1}{4}'W$ 68 lvs. dist.

Chains

marked T29 N. R19 E S 26 B.T.
 Land rolling hilly and mountainous.
 Soil sandy and stony 2nd 3rd and 4th rate.
 Pink Cedar.
 Mountainous land 8.60 Chs.

- 8
 40.00 East on a random line bet. sec. 25 and 36
 80.10 Bet temp $\frac{1}{4}$ sec. cor.
 80.10 Intersect E ldy. of Np. 3 lks. N. of the cor. of sec.
 25, 30, 31 and 36, recently estab. by me & described in Exterior Book "R"
 Thence
 N 89° 59' W. on a true line bet. sec. 25 and 36.
 Ascend E. slope over hilly sandy and stony
 land through scattering cedar timber.
 9.00 Leave hilly land bear N. and S. enter stony
 mountainous land bear N and S. ascend
 abruptly.
 12.25 Top of rocky ascent on E edge of mesa. Leave
 mountainous land bear N and S, enter rolling
 sandy mesa land bear N and S.
 40.05 Set an iron post. 3^{ft}. long in diameter 26
 ins. in the ground for $\frac{1}{4}$ sec. cor, marked
 on bear cap $\frac{1}{4}$ S 25 on N. half. and S 36 on S
 half. from which.
 A cedar 8 ins. in diam bear N 9 $\frac{1}{4}$ ° E 166 lks. dist,
 marked $\frac{1}{4}$ S 25 B.T.
 A cedar 6 ins. in diam bear S 72 $\frac{1}{4}$ ° W 50 lks.
 dist, marked $\frac{1}{4}$ S 36 B.T.
 NOTE At this cor. I set off 16' 13" S on the decl. arc
 and at 12^h 14^m p.m. l. mt. observed the sun on
 the meridian and obtain on the lab arc
 a reading of 35° 52' N.
 67.50 West edge of mesa, leave rolling sandy
 land bear N.E. and S.W. descend abruptly rocky
 NW. slope of mesa over mountainous land
 bear N.E. and S.W.
 73.50 Foot of abrupt descent in dry ravine course W.
 Leave mountainous land bear N.E. and S.W.
 enter hilly land bear N.E. and S.W., ascend
 W. slope of sand ridge.

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75.50 Top of sand ridge bears N. and S. desc.
80.10 The cor. of sec. 25, 26, 35 and 36, hereinbefore described.
Land rolling hills and mountainous.
Soil sandy and stony. 3rd and 4th rate.
Timber Cedar.
Mountainous land. 9.25 Chs.

N 0° 01' W. Feb. sec. 25 and 26.

Descend N.E. slope over hilly sandy land through scattering Cedar timber

2.00 Dry ravine course N.E. asc.

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

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

19.50 Dry ravine course N.E. asc.

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

39.00 Dry ravine course E. asc.

40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for 4 sec. marked on bears cap 7 S 26 on W. half and S 25 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.

42.00 Top of sand ridge bears E and W. desc. gradually over N.E. slope.

77.00 Foot of descent in dry ravine course N.W. leave hilly land bears N.W. and S.E. enter rolling sandy land bears N.W. and S.E.

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 bears cap T 29 N. S 23 in N.W. N 19 E S 24 in N.E. S 25 in S.E. and S 26 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 and hilly.

Soil sandy 2nd and 3rd rate.

Timber Cedar.

Chains

- 40.00 S 89° 59' E on a random line bet. sec. 24 and 25
 80.10 Set temp $\frac{1}{4}$ sec. cor.
 Intersect E bdy. of Twp. 5 lks. N. of the cor. of sec.
 19. 24. 25 and 30; recently estab. by me & described in Exterior
 Thence I run Book "F"
- 5.00 N 89° 57' W. on a true line bet. sec. 24 and 25
 ascend & slope over hilly sandy land through
 scattering cedar timber.
- 8.50 Leave hilly land bears N.W. and S.E. enter
 stony, mountainous land bears N.W. and S.E.
 ascend abruptly.
- 39.90 Top of abrupt ascent on E. edge of mesa. bears
 N.W. and S.E. leave mountainous land bears
 N.W. and S.E. enter rolling sandy mesa land
 bears N.W. and S.E.
- 40.05 West edge of mesa. leave rolling land bears
 N.E. and S.W., descend abruptly rocky N.W. slope
 over stony, mountainous land bears N.E. and S.W.
- 39.55 The point for the $\frac{1}{4}$ sec. cor. falls in the head
 of a dry ravine where natural causes would
 insure the destruction of a cor. therefore ab.
- 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. T 29 N. R 19 E
 S 24 on N. half. and S 25 on S. half. W.C. $\frac{1}{4}$.
 on W. half. from which.
- A pinon pine 6 ins. in diam. bears N 50° W 45
 lks. dish, marked W.C. $\frac{1}{4}$ S 24 B.T.
- A pinon pine 10 ins. in diam. bears S 63 $\frac{1}{2}$ ° W 53
 lks. dish, marked W.C. $\frac{1}{4}$ S 25 B.T.
- 45.00 Foot of abrupt rocky descent bears N.E. and S.W.
 leave mountainous land bears N.E. and S.W.
 enter hilly land bears N.E. and S.W.
- 63.00 Dry ravine course N.W. leave timber bears N.E. and S.W.
- 80.10 The cor. of sec. 23, 24, 25 and 26, heretofore described.
 Land rolling hilly and mountainous.
 Soil sandy and stony 3rd and 4th rate.
 Timber pinon pine and Cedar
 Mountainous land 8.60 chs.

N 0° 1' W. bet. sec. 23 and 24

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- Ascend gradually S. slope over rolling sandy land through sage brush and bunch grass.
- 2.00 Top of sand ridge head E. and W. descend.
- 37.00 Road to Place head N.E. and S.W.
- 38.00 Foot of descent leave rolling land head N.E. and S.W. enter level bottom land head 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 23 on W. half and S 24 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 sec. 13, 14, 23 and 24, marked on brass cap T 29 N. S 14 in N.W. R 19 E S 13 in N.E. S 24 in S.E. and S 23 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 2nd and 3rd rate.
- No timber.

- S 89° 57' E. on a random line bet. sec. 13 and 24
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 79.96 Outusech E. edge of T₂₉ S. of the cor. of sec. 13, 18, 19 and 24, recently estab. by me & described in Exterior Book "R"
- Thence I run
- N 89° 58' W. on a true line bet. sec. 13 and 24
- Over level sandy bottom land through sage and greasewood brush undergrowth.
- 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 13 on N. half and S 24 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

Chains

- 44.00 1 1/2 ft. high N. of cor.
 Dry ravine 30 lks. wide banks 6 ft. high Course
 NW.
- 79.96 The Cor. of sec. 13, 14, 23 and 24, heretofore described.
 Land level.
 Soil sandy 2nd rate.
 Not timber.

February 4th 1909

- February 8th 1909
 At 8th 00^{am} ^{l.m.t.} Set off 35° 54' N.
 on the Tab. arc. 15° 00' S. on the decl. arc. and
 determine a meridian with the solar at the
 cor. of sec. 13, 14, 23 and 24, heretofore described.
 Thence I run
 N 0° 01' W. bet. sec. 13 and 14.
 Over level sandy and adobe bottom land through
 sage and greasewood brush undergrowth.
- 2.00 The Polacca Wash 100 lks. wide banks 10 ft.
 high Course S.W.
- 11.25 Dry ravine 25 lks. wide 6 ft. deep. Course S.E.
 Leave level land bear N.E. and S.W. ascend
 S.E. slope over hilly land bear N.E. and S.W.
- 21.00 Foot of mesa, leave hilly land bear N.E. and
 S.W. ascend abrupt rocky S.E. slope of mesa
 over mountainous land bear 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. 14 S 14° 00' W. half and S 13° 00' E
 half.
 Raise a mound of stone 2 ft. base, 1 1/2 ft. high
 N. of cor. Pds. impracticable
- 44.75 Top of abrupt. ascend on S edge of mesa,
 leave mountainous land bear N.E. and S.W.
 Ascend S slope over rolling sandy mesa
 land through scattering cedar timber bear
 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. 11 12
 13 and 14, marked on brass cap. T 29 N.
 S 11 in N.W. T 19 E S 12 in N.E. S 13 in S.E. and

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and S14 in S.W. quadrant, from which.
A Cedar 6 ins. in diam, bears $N 33\frac{1}{2}^{\circ} E 53$ lks.
dist, marked T 29 N. R 19 E S 12 B.T.

A Cedar 9 ins. in diam bears $S 59^{\circ} E 130$ lks.
dist, marked T 29 N. R 19 E S 13 B.T.

A Cedar 14 ins. in diam, bears $S 63^{\circ} W 202$ lks.
dist, marked T 29 N. R 19 E. S 14 B.T.

No other trees available.

Dig pit 36x36x12 ins. in sec. 11. $5\frac{1}{2}$ ft. dist.
and raise a mound of earth 4 ft. base. 2 ft.
high W. of cor.

Land level. hilly and mountainous
Soil sandy adobe and stony 2nd 3rd and
4th rates.

Timber Cedar.

Mountainous land 23.75 chs.

$S 89^{\circ} 58'$ E on a random line bet. sees 12 and
13.

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

80.02 Intersect E. side of Npi. at the cor. of sees.
7, 12, 13 and 18, recently estab. by me & described in
Thence I run Exterior Book "R"

$N 89^{\circ} 58'$ W. on a true line bet. sees 12 and 13

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

12.00 Top of mesa bears N.E. and S.W., leave
hilly land bears N.E. and S.W., ascend abrupt
rocky S.E. slope of mesa over mountainous
land bears N.E. and S.W.

39.50 Top of abrupt ascent on E. edge of mesa
bears N.E. and S.W. leave mountainous
land bears N.E. and S.W., enter rolling
sandy land bears N.E. and S.W. ascend
gradually over S.E. slope. through scattering
cedar timber bears N.E. and S.W.

40.01 Set an iron post. 3 ft. long 1 in. in diam
20 ins. in the ground for $\frac{1}{4}$ sec. cor.

Behains

marked on brass cap $\frac{1}{4}$ S 12 on N. half.
 and S. 13 on S half., from which
 A cedar 8 ins. in diam. bears $N 47^{\circ} W$ 107 lks.
 dist. marked $\frac{1}{4}$ S 12 B.T.

A pinion pine 4 ins. in diam. bears S 83 $\frac{1}{2}$ W
 36 lks dist., marked $\frac{1}{4}$ S 13 B.T.

80.02 The Cor. of sec. 11, 12, 13 and 14, ^{hereinbefore} described.
 Land rolling hilly and mountainous.
 Soil sandy and stony 3rd and 4th rate.
 Timber pinion pine and Cedar.
 Mountainous land. 27.50 chs.

N 0 $^{\circ}$ 01' W. bet. sec. 11 and 12.

Over rolling sandy land through scattering
 cedar timber 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 11 on W half and S 12 on E half., from
 which.

A cedar 10 ins. in diam bears S 88 $\frac{3}{4}$ E 161 lks dist
 marked $\frac{1}{4}$ S 12 B.T.

A cedar 12 ins. in diam. bears $N 28^{\circ} W$ 91 lks dist.
 marked $\frac{1}{4}$ S 11 B.T.

46.00 Top of low sand ridge bears E and W. desc.

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

80.00 Set an iron post 3 ft. long 2 ins. in diam
 24 ins in the ground for Cor of sec. 1, 2, 11
 and 12 marked on brass cap T 29 N S 2 in
 NW. R 19 E S 1 in N.E. S 12 in S.E. S 11 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.

Timber Cedar.

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- 89°58' E on a random line bet. sec. 1 and 12
40.00 Set temp $\frac{1}{4}$ sec. cor.
- 79.86 Intersect E bdy. of Tp. on the cor. of sec. 1, 6, 7
and 12, recently estab. by me & described in Exterior Book "R"
Thence Drum
N 89°58' W. on a true line bet. sec. 1 and 12
Ascend E. slope over hilly sandy land through
scattering Cedar and pinion pine timber.
5.00 Top of mesa leave hilly land bear N and S,
ascend abrupt rocky E. slope over mountainous
land. bear N and S.
- 7.60 Top of abrupt ascent on E edge of mesa bear
N and S. leave mountainous land bear N and
S. enter rolling mesa land bear N and S,
ascend gradually over S.E. slope.
- 10.00 Leave timber bear N and S.
- 39.93 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 1 on N. half. and S 12 on S half.
Dig pits 18x18x12 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.
- 79.86 The Cor. of sec. 1, 2, 11 and 12, heretofore described.
Land rolling hilly and mountainous.
Soil sandy and stony 3rd and 4th rate.
Timber Cedar and pinion pine.
Mountainous land. 2.60 Chs.

- N 0° 01' W on a random line bet. sec. 1 and 2
40.00 Set temp $\frac{1}{4}$ sec. cor.
- 79.90 Intersect N. bdy. of Tp. 14 lks. N 89°58' E of the cor. of
sec. 1, 2, 35 and 36, recently estab. by me & described in
Exterior Book "R"
Thence Drum
S 0° 07' E on a true line bet. sec. 1 and 2.
Over rolling sandy land. through sage and
greasewood brush undergrowth and bunch grass.
30.06 Enter scattering pinion pine and Cedar timber
bear E and W.
- 39.90 Set an iron post. 3 ft. long 1 in in diam. 26 in

Chains

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.
 from which.

A cedar 6 ins. in diam bears N $18\frac{3}{4}^{\circ}$ E 54.2 lbs.
 dist. marked $\frac{1}{4}$ S 1 B.T.

A cedar 10 ins. in diam, bears N $65\frac{1}{2}^{\circ}$ W
 44 lbs. dist. marked $\frac{1}{4}$ S 2 B.T.

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

79.90 The Cor. of Secs. 1, 2, 11 and 12, heretofore described
 Land rolling.

Soil sandy 3rd rate.

Timber prairie pine and cedar

NOTE

Clouds obscure the sun at noon today
 rendering an observation for latitude im-
 possible.

February 8th 1909

Feb. 5th 1909
 Feb. 8th 30^m a.m. l.m.t. - Obs. off. $35^{\circ} 51\frac{1}{2}'$ N.
 on the lab. arc. $15^{\circ} 56\frac{1}{2}'$ S. on the decl. arc
 and determine a meridian with the solar ab.
 the standard Cor. of secs. 34 and 35 on the
 S. side of the Twp; recently re-estab. by me & described in
 Thence Down Standard Book "C"

N $0^{\circ} 01'$ W. bet. Secs 34 and 35

Ascend abrupt rocky S. slope of spur over mount-
 ainous land. through scattering prairie pine
 and cedar timber.

10.00 Top of rocky spur bears E. and W., desc. abrupt.
 N.W. slope

25.00 Foot of abrupt rocky descent. Leave mountainous
 land bears N.E. and S.W. enter rolling sandy
 land bears N.E. and S.W.

37.00 Dry ravine course N.W. leave rolling land
 bears N.W. and S.E., ascend S.W. slope of ridge
 over hilly land bears N.W. and S.E.

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

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
 $\frac{1}{4}$ S 34 on W half and S 35 on E half.

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From which.

A Cedar 14 ins. in diam. bears S⁶⁰°E 38 lks.
dist. marked $\frac{1}{4}$ S 35 B.T.A Cedar 10 ins. in diam. bears N⁵²°W 23.
lks. dist. marked $\frac{1}{4}$ S 34 B.T.

53.00 Dry ravine Course S.W. asc.

64.00 Foot of mesa leave hilly land bears N.E. and S.W.
ascend abrupt rocky S.E. slope over mountainous
land.71.00 Top of abrupt ascent on S. edge of mesa.
leave mountainous land bears N.E. and S.W.
enter rolling sandy mesa land bears N.E.
and S.W. P80.00 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 base Cap. T₂₉N S₂₇
in N.W. R₁₉E S₂₆ in N.E. S₃₅ in S.E. and S
34 in S.W. quadrant, from which.A Cedar 12 ins. in diam. bears N⁴³ $\frac{1}{2}$ °E 137 lks.
dist. marked T₂₉N, R₁₉E S₂₆ B.T.A Cedar 9 ins. in diam. bears S⁷⁹°E 145 lks.
dist. marked T₂₉N, R₁₉E. S₃₅ B.T.A Cedar 8 ins. in diam. bears S⁵² $\frac{1}{2}$ °W 110 lks.
dist. marked T₂₉N, R₁₉E S₃₄ B.T.A Cedar 8 ins. in diam. bears N²⁰°W 149 lks.
dist. marked T₂₉N, R₁₉E S₂₇ B.T.Land rolling hilly and mountainous.
Soil sandy and stony 3rd and 4th rate.
Timber pinon pine and cedar.
Mountainous land 32.00 chv.40.00 Reach on a random line bet. sec. 26 and 35 -
Set temp $\frac{1}{4}$ sec. cor.80.10 Intersects N. and S. line 8 lks. S of the Cor. of
sec. 25, 26, 35 and 36, heretofore described,
Thence RunS⁸⁹°57'W. on a true line bet. sec. 26 and 35 -
Descend N.W. slope over hilly sandy land.
through scattering pinon pine and cedar timber

Chains

- 1.65 Dry ravine Course N.E. and S.E. slope
- 9.30 Top of sand ridge bears N.W. and S.E. desc.
- 11.50 Dry ravine on foot of mesa Course N.E., leave hilly land bears N.W. and S.E. ascend abrupt rocky N.E. slope over mountainous land bears N.W. and S.E.
- 13.00 Top of abrupt ascent on E. edge of mesa bears N.W. and S.E. leave mountainous land bears N.W. and S.E., enter rolling sandy mesa land bears N.W. and S.E.
- 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 $\frac{1}{4}$ S 26 on N. half and S 35 on S half. from which.
 A Cedar 8 ins. in diam. bears $N 70^{\circ} W 95$ lks. dist. marked $\frac{1}{4}$ S 26 B.T.
 A Cedar 12 ins. in diam. bears $S 80^{\circ} W 107$ lks. dist. marked $\frac{1}{4}$ S 35 B.T.
- 84.10 The Cor. of secs. 26, 27, 34 and 35, heretofore described.
 Land rolling hilly and mountainous.
 Soil sandy and stony 3rd and 4th rate.
 Timber Spruce pine and Cedar.
 Mountainous land 150 Chrs

N $0^{\circ} 01' W$. bet. Secs. 26 and 27.
 Over rolling sandy mesa land through scattering cedar timber and bunch grass.

- 8.00 North edge of mesa, leave rolling sandy land bears N.E. and S.W., descend abrupt rocky N.W. slope over mountainous land bears N.E. and S.W.
- 24.00 Foot of abrupt rocky descent, leave mountainous land and timber bears N.E. and S.W., enter hilly sandy 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 27. on W half. and S 26 on E half.
 Dig pits 18x18x12 ins. N. and S. of post. 3 ft.

BOOK 2593

NOTE

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

At this cor I set off $15^{\circ}55'$ S on the decl.
 arc, and at $12^{\text{h}}14^{\text{m}}$ p.m. l.m.t. observed the
 sun on the meridian, the resulting lat.
 being $35^{\circ}53'N$, nearly.

65.00 Leave hilly land head N.E. and S.W. enter
 level bottom land head N.E. and S.W.

68.00 Road to Placca Ariz head 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. 22, 23
 26 and 27, marked on brass cap. T 29 N S 22 in
 N.W. T 19 E S 23 in N.E. S 26 in S.E. and S 27 in S.W.
 quadrant.

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

Land level hilly and mountainous.

Soil sandy and stony 2nd 3rd and 4th rate.

Timber Cedar

Mountainous land 16.00 Chs.

At $1^{\text{h}}30^{\text{m}}$ a snow storm set in which
 prevented further field work on this day

February 5th 1909

Feb 6th 1909
 At $3^{\text{h}}00^{\text{m}}$ p.m. l.m.t. set off $35^{\circ}53'N$ on the
 lat. arc. $15^{\circ}33\frac{1}{2}'S$ on the decl. arc and determined
 a meridian with the solar at the cor. of sec. 22, 23
 26 and 27.

Thence Drum

N $89^{\circ}57'E$ on a random line bet. sec. 23 and 26.

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

79.98 Intersect N. and S. line 8. lks. S. of the cor. of sec.
 23, 24, 25 and 26, hereinbefore described,

Thence Drum

S $89^{\circ}54'W$ on a true line bet. sec. 23 and 26.

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

10.00 Dry ravine course N.W. asc. N.E. slopes

20.00 Top of sand ridge head N and S. desc. W. slope.

Chains

- 39.99 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. East 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.
- 60.00 Foot of descent in valley leaves rolling land bears N.E. and S.W., enter level bottom land bears N.E. and S.W.
- 64.75 Road to Placca Ariz bears N.E. and S.W.
- 79.98 The cor. of secs. 22, 23, 26 and 27, heretofore described. Land level and rolling.
 Soil sandy and adobe 2nd and 3rd rate.
 No timber.

February 6th 1909

February 9th 1909 At 8^h 30^m am. Obs. L. D. reb. of $35^{\circ}53'N$, on the lab. arc. $14^{\circ}41\frac{1}{2}'S$, on the decl arc and determined a meridian with the solar at the cor. of secs. 22, 23, 26 and 27, heretofore described, thence I run

N $0^{\circ}01'W$ for secs 22 and 23

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

21.00 Placca Wash 40 lbs. wide. banks 10 ft. high course 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 the 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. deep and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft high W. of cor.

42.00 Leave level land bears N.E. and S.W. ascend gradually. S.E. slope over rolling sandy land bears N.E. and S.W.

78.00 Foot of rise leaves rolling sandy land bears N.E. and S.W., ascend abruptly rocky S.W. slope over stony mountainous land bears N.E. and S.W.

80.00 Set an iron post 3 ft. long 2 ins in diam 24 ins

BOOK 2593

in the ground for Cor. of sec. 14, 15, 22 and 23
marked on brass Cap T29N, S15 in N.W. R19E
S14 in N.E. S23 in S.E. and S22 in S.W.
quadrant.

Raise a mound of stone 2 ft. base, 1 1/2 ft. high
W. of cor. Pits impracticable.
Land level rolling and mountainous.
Soil sandy and rocky 2nd 3rd and 4th rate.
No timber
Mountainous land 200 Chs.

40.00 V89°54' E over random line bet. sec. 14 and 23
Set temp. 1/4 sec. Cor.
80.02 Intersect N and S. line 5 lbs. S of the Cor. of sec.
13, 14, 23 and 24, heretofore described,
Thence Drive

S89°52' W. over a true line bet. sec. 14 and 23
Over level sandy and adobe bottom land through
sage and greasewood bush undergrowth, and
scattering bunch grass.

3.00 Cross the Palaca Wash (dry) 100 lbs. wide
banks 10 ft. high, Course S.W.

25.00 Dry ravine 20 lbs wide 4 ft. deep Course 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
on brass Cap 1/4 S14 on N. half and S23 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.

NOTE On this Cor. Dsb. of 14°40' S on the decl. arc
and at 12^h 14^m pm l.m.t. observe the sun on
the meridian. the resulting latitude being
35°54' N.

46.00 Dry ravine Course S.E., leave level bottom,
land toward N.E. and S.W. ascend S.E. slope
over hilly sandy land toward N.E. and S.W.

56.00 Top of ridge toward N.E. and S.W. desc.

65.00 Foot of descent in depression at foot of
mesa toward N.E. and S.W. leave hilly

Chairs

land bears N.E. and S.W., ascend abruptly along
 S.E. slope over mountainous land bears
 N.E. and S.W.
 - 80.02 The Cor. of sec. 14, 15, 22 and 23, ^{hereinbefore} described.
 - Land level hilly and mountainous.
 Soil sandy & loam and stony 2nd 3rd and 4th rate.
 No timber.
 Mountainous land 15.00 Chs.

No. of W. Ch. sec 14 and 15
 Ascend abruptly rocky S.E. slope of mesa over
 mountainous land.
 15.70 Top of abrupt rocky ascent on S. edge of
 mesa, bear mountainous land bears
 N.E. and S.W., enter rolling sandy mesa
 land bears N.E. and S.W.

- 18.00 Enter scattering cedar and pinion pine timber
 bears N.W. and S.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 base Cop $\frac{1}{4}$ S 15 on W. half and S 14 on E.
 half, from which.

A cedar 12 ins. in diam bears N 40 $\frac{1}{2}$ ° E 132 lbs.
 dist. marked $\frac{1}{4}$ S. 14 B.T.

A cedar 12 ins. in diam, bears S 54 $\frac{3}{4}$ ° W. 404
 lbs. dist. marked $\frac{1}{4}$ S 15 B.T.

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 on base Cop T 29 N. S
 10 in N.W. R 19 E S 11 in N.E. S 14 in S.E. and
 S 15 in S.W. quadrant. from which

A cedar 8 ins. in diam, bears N 59 $\frac{1}{2}$ ° E 272
 lbs dist. marked T 29 N R 19 E. S 11 B.T.

A cedar 10 ins. in diam bears S 74° E 207 lbs.
 dist. marked T 29 N. R 19 E. S 14 B.T.

A cedar 8 ins. in diam bears N. 70 $\frac{3}{4}$ ° W 119
 lbs. dist. marked T 29 N. R 19 E S 10 B.T.

No other trees available
 Dig pit 36 x 36 x 12 ins. in sec 15, 6 $\frac{1}{2}$ ft. dist.

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and raise a mound of earth 4 ft. base, 2 ft. high W. of Cor.

Land rolling and mountainous.

Soil sandy and stony 3rd and 4th rate.

Timber Cedar and Juniper pines.

Mountainous land. 15.70 chs

40.00 N 89° 52' E on a random line bet. sec 11 and 14
Set temp 4 sec. cor.

80.00 Intersect N and S line 5 chs N. of the Cor. of
secs. 11, 12, 13 and 14, heretofore described,
Thence Run

S 89° 54' W on a true line bet. sec 11 and 14

Over rolling sandy mesa land through
scattering Juniper pines and Cedar timber and
tame 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 bear cap.
1/4 S 11 on N. half and S 14 on S half., from which
A cedar 6 ins. in diam, bears N 74° W 80 chs. dist.
marked 1/4 S 11 B.T.

A cedar 6 ins. in diam bears S 67 1/2° E 106 chs. dist.
marked 1/4 S 14 B.T.

45.00 Leave timber bears N and S.

72.00 Enter scattering Cedar timber bears N.E. and S.W.

80.00 The Cor of sec. 10, 11, 14 and 15, heretofore described.

Land rolling

Soil sandy 3rd rate.

Timber Juniper pine and Cedar.

February 9th 1909

Feb 15th 1909
At 10^h 30^m a.m. Lm. 6 I set off 35° 55' N.
on the lat. arc 12° 41' S. on the decl. arc. and determine
a meridian with the solar at the cor of sec 10, 11, 14 and
15; heretofore described,

Thence Run

N 0° 01' W bet. sec 10 and 11

Chain

- Over rolling sandy land through scattering Cedar timber and bunch grass.
- 12.00 Top of ridge bears N.E. and S.W. desc. gradually over N.W. slope.
- 30.00 Leave timber bear 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. $\frac{1}{4}$ S 10 on W half and S 11 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 Enter scattering Cedar timber bear E and W.
- 61.00 Dry ravine Course N.W.
- 80.00 Set an 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 N.W. R 19 E S 2 in N.E. S 11 in S.E. and S 10 in S.W. quadrants, from which
 A cedar 4 ins. in diam. bear N 72° E 52 lks dist, marked T 29 N. R 19 E S 2 B.T.
 A cedar 10 ins. in diam bear S 26° E 286 lks. dist, marked T 29 N. R 19 E S 11 B.T.
 A cedar 7 ins. in diam, bear S $62\frac{3}{4}^{\circ}$ W 267 lks. dist, marked T 29 N. R 19 E S 10 B.T.
 A cedar 6 ins. in diam. bear N 78° W 191 lks. dist, marked T 29 N. R 19 E. S. 3 B.T.
- Land rolling
 Soil sandy 3rd rate.
 Timber Cedar.
- NOTE
 At this cor. set off $12^{\circ}40'$ S with the decl. arc, and at $12^{\circ}14'$ p.m. can observe the sun on the meridian the resulting latitude being $35^{\circ}56' 21''$.
-
- W 89^o 54' E on a random line bet. sec. 2 and 11
- 40.00 Set temp $\frac{1}{4}$ sec. cor.
- 80.00 Intersect N and S. line 3 lks. N. of the cor. of sec 1, 2, 11 and 12; heretofore described.
- Thence down
 S 89^o 55' W. on a true line bet. sec. 2 and 11
- around S.E. slope of sand ridge over rolling land through scattering Cedar timber and bunch grass
- 30.00 Top of sand ridge bears N.E. and S.W.

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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 N. half and S 11 on S half. from which
A pinion pine 8 ins. in diam. bears N 13 $\frac{1}{2}$ ° E 137 lks. dist. marked $\frac{1}{4}$ S 2 B.T.

A cedar 6 ins. in diam. bears S 27 $\frac{1}{2}$ ° E 76 lks. dist. marked $\frac{1}{4}$ S 11 B.T.

80.00 The cor of secs. 2, 3, 10 and 11, heretofore described.
Land rolling.

Soil sandy 3rd rate.

Timber pinion pine and cedar.

N 0° 01' W on a random line bet. sec 2 and 3

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

80.10 Intersect N. bdy of Tp. 18 lks. N 89° 58' E of the cor. of secs. 2, 3, 34 and 35, recently estab. by me & described in Exterior Book "R".
Thence D run

S 0° 09' E. on a true line bet. sec 2 and 3.

Descend gradually Sth slope over rolling sandy land through scattering cedar timber and brushgrass.

10.00 Leave timber bears E and W.

39.00 Enter cedar timber bears E and W.

40.10 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec cor. mkd. on brass cap. $\frac{1}{4}$ S 3 on W. half and S 2 on E half. from which.

A cedar 7 ins. in diam. bears S 89 $\frac{3}{4}$ ° E 75 lks. dist. marked $\frac{1}{4}$ S 2 B.T.

A cedar 14 ins. in diam. bears S 44 $\frac{1}{2}$ ° W 108 lks. dist. marked $\frac{1}{4}$ S 3 B.T.

42.00 Dry run in course N.W. ascend gradually N.E. slope

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

78.00 Enter scattering cedar timber bears N.E. and S.W.

80.10 The cor of secs 2, 3, 10 and 11, heretofore described.
Land rolling.

Soil sandy 2nd and 3rd rate.

Timber Cedar

Chains

Feb 6th 1909. Ab. 8th 00^m am. l.m.l. & set off
 35° 51½' W. on the lat. arc 15° 38' S. on the decl. arc.
 and determine a meridian with the solar ab.

the stand. cor. of sec 33 and 34 on the S. dry. of
 the N. P.; recently re-estab. by me & described in Standard Book "C"

Thence S. run, resurveying
 N 0° 02' W. bet. sec. 33 and 34

Over rolling sandy land. slopes to W., through
 scattering sage and greasewood brush and bunch
 grass.

- 0.50 Dry ravine 20 lbs. wide 4 ft. deep. Course W.
- 3.50 Dry ravine 15 lbs. wide 3 ft. deep. Course S.W.
- 20.00 No trace of old ¼ sec. cor. can be found.
- 33.00 Begin gradual descent over N.W. slope over rolling land.
- 40.00 Set an iron post 3 ft. long 1 in. in diam., 26 ins.
 in the ground ^{re-established} for ¼ sec. cor. marked on brass
 cap ¼ S 33 on W. half and S 34 on E. half.
 Dig pits 18x18x12 ins. N and S. of post. 3 ft. dirt.
 and raise a mound of earth 3½ ft. base 1½ ft.
 high W. of cor. All indications of the old ¼ sec. cor. have disappeared
- 60.00 No trace of old ¼ sec. cor. can be found.
- 65.00 Foot of descent, leave rolling sandy land bear
 N.E. and S.W., enter level land bear N.E. and
 S.W.
- 74.85 Road to Placed Ariz bear N.E. and S.W.
- 80.00 Set an iron post 3 ft. long 2 ins. in diam., 24 ins.
 in the ground ^{re-established} for cor. of sec. 27, 28, 33 and 34
 marked on brass cap. T 29 N. S 28 in N.W. R 19.
 E S 27 in N.E. S 34 in S.E. and S 33 in S.W. quadrants.
 Dig pits 18x18x12 ins. in each sec. 5½ ft.
 dirt. and raise a mound of earth 4 ft. base 2
 ft. high W. of cor.
 Land level and rolling
 Soil sandy 2nd and 3rd rate.
 No timber.
 I fail to find any trace of the old cor. of sec
 27, 28, 33 and 34

East on a random line bet. sec 27 and 34

- 40.00 Set temp ¼ sec. cor.
- 79.94 Intersect N and S. line 3 lbs. N. of the cor. of sec
 26, 27, 34 and 33; heretofore described.
 Thence S. run

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- N 89° 59' W. on a true line bet. sec. 27 and 34
Over rolling sandy mesa land through scattering
juniper pine and cedar timber.
- 8.20 West edge of mesa, leave rolling sandy land
bear N.E. and S.W., descend abruptly rocky N.W.
slope of mesa over mountainous land, leave
timber bear N.E. and S.W.
- 30.00 Foot of abrupt rocky descent, leave mountainous
land bear N.E. and S.W., enter rolling sandy
land bear N.E. and S.W. descend gradually.
- 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. $\frac{1}{4}$ S. 27 on N. half and S 34 on S.
half.
Dig pits 18x18x12 ins. 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 N. of cor.
No trace of old $\frac{1}{16}$ sec. cor. can be found. thence resurveying.
- 59.94
- 60.00 Foot of gradual descent, leave rolling land.
bear N.E. and S.W. enter level land bear
N.E. and S.W.
- 73.75 Road to Placca Ariz bear N.E. and S.W.
- 79.94 The ^{re-established} cor. of sec. 27, 28, 33 and 34, heretofore described.
Land level rolling and mountainous
Soil sandy and stony 2nd 3rd and 4th rate.
Timber juniper pine and cedar.
mountainous land 21.80 chs.
-
- N 0° 02' W. bet. sec. 27 and 28. resurveying to 20.00
Over level sandy land through sage and greasewood
bush and bunch grass
- 13.50 Cross the Placca Wash 90 chs. wide. Tanks.
15 ft. high course S.W.
- 20.00 No trace of old $\frac{1}{16}$ sec. cor. can be found.
- 40.00 Set an iron post 3 ft. long. 1 in. in diam. 26 ins.
in the ground for $\frac{1}{4}$ sec. cor. marked on brass
cap $\frac{1}{4}$ S 28 on W. half and S 27 on E half.
Dig pits 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.
- 65.00 Leave level land bear N.E. and S.W., ascend S.E.

Chain

80.00 Slope over rolling land.
 Set an iron post 3 ft. long 2 in. in diam. 24 in. in
 the ground for cor. of sec. 21, 22, 27 and 28. marked on
 brass cap. T 29 N. S 21 in N.W., T 19 E S 22 in N.E. S 27 in
 S.E. and S 28 in S.W. quadrant.
 Raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor.
 Pits impracticable.
 Land level and rolling.
 Soil sandy 2nd and 3rd rate.
 No timber.

NOTE On this cor. I set off 15° 36 1/2' S on the decl. arc
 and at 12^h 14^m pm. level observed the sun on the
 meridian, and obtain on the lat. arc a reading
 of 35° 53' N.

40.00 S 89° 59' E on a random line bet. sec. 22 and 27.
 Set temp 1/4 sec. cor.

74.92 Intersect N. and S line 3 lbs. N. of the cor. of sec.
 22, 23, 26 and 27, heretofore described,
 Thence I run
 N 89° 58' W on a true line bet. sec. 22 and 27.
 Over level sandy and adobe bottom land through
 sage and greasewood brush and scattering bunch
 grass.

4.00 Enter Placca Wash bank 20 ft. high. Course
 W. thence over dry bed of wash.

15.00 Leave Wash course S.W. Enter level land bet. N.E. and S.W.

39.96 Set an iron post 3 ft. long 1 in. in diam. 26 in.
 in the ground for 1/4 sec. cor. marked on brass cap
 1/4 S 22 on N. half. and S 27 on S half.
 Dig pits 18x18x12 in E. and W. of post 3 ft.
 dist. and raise a mound of earth 3 1/2 ft.
 base 1 1/2 ft. high N. of cor.

43.75 Road to Placca Ariz bet. N.E. and S.W.

70.00 Leave level land bet. N.E. and S.W., enter
 rolling sandy land bet. N.E. and S.W. ascend
 gradually over S.E. slope.

79.92 The cor. of sec. 21, 22, 27 and 28; heretofore
 described.
 Land level and rolling
 Soil sandy and adobe 2nd and 3rd rate

No timber

BOOK 2593

February 6th 1909

Feb 10th 1909
 At 2^h 15^m p.m. l. m. l. D set off. $35^{\circ} 53' 76''$
 on the lab arc. $14^{\circ} 18' 1/2'' S$ on the decl arc and determine
 a meridian with the solar ab. the cor of sec 21
 22, 27, and 28.

Thence I run

$N 0^{\circ} 02' W$. bet. sec. 21 and 22.

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

8.00 Top of mesa, leave hilly land bear N.E. and
 S.W. ascend abrupt rocky S slope of mesa over
 mountainous land.

22.00 Top of abrupt rocky ascent on S. edge of mesa
 leave mountainous land, bear N.E. and S.W.
 enter rolling sandy mesa land and scattering
 cedar timber bear N.E. and S.W. ascend gradually
 over S.E. slope.

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
 from which.

Cedar 6 ins. in diam. bear $N 11^{\circ} 4' E$ 109 lks. dist.
 marked $\frac{1}{4}$ S 22 B.T.

A cedar 12 ins in diam. bear $N 12^{\circ} W$ 129 lks. dist.
 marked $\frac{1}{4}$ S 21 B.T.

60.00 Top of sand ridge bear N.E. and S.W. descend gently
 over N.W. slope.

70.00 Leave timber bear E. and W.

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 29 N. S 16 in N.W. R 19 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. dist. and
 raise a mound of earth 4 ft. low 2 ft. high W. of cor.
 Land rolling hilly and mountainous.

Soil sandy and stony 3rd and 4th rate
 Pumber Cedar.

Mountainous land. 14.00 Chs.

- 40.00 Set temp $\frac{1}{4}$ sec. cor.
- 80.00 Intersect N and S. line 2 lks. S. of the cor. of sec 14. 15. 22 and 23; hereinbefore described,
Thence I run
N $89^{\circ}58'E$. on a random line bet. sec 15 and 22
Ascend abrupt rocky S.W. slope over mountainous land through scattering sage brush and bunch grass.
- 4.00 Foot of abrupt descent leave mountainous land bears N.W. and S.E. enter broken hilly land bears N.W. and S.E. ascend over S.E. slope -
- 20.00 Leave hilly land bears N.E. and S.W., enter mountainous land and cedar timbered bears N.E. and S.W. ascend abruptly
- 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 N. half and S 22 on S half.
From which,
A cedar 4 ins. in diam bears N $49^{\circ}W$ 82 lks. dist. marked $\frac{1}{4}$ S 15 B.T.
A cedar 6 ins. in diam. bears S $9\frac{1}{2}^{\circ}W$ 120 lks. dist. marked $\frac{1}{4}$ S 22 B.T.
- 47.45 Top of abrupt ascent on E. edge of mesa, leave mountainous land bears N.E. and S.W., enter rolling sandy mesa land bears N.E. and S.W.
- 80.00 The Cor. of Secs. 15. 16. 21 and 22; hereinbefore described.
Land rolling hilly and mountainous.
Soil sandy and stony 3rd and 4th rate.
Timber Cedar
Mountainous land. 31.45 Chs.

February 10th 1909

1909
Feb. 15th Ch. 8^h 30^m am. l.m.l. & set off $35^{\circ}54'N$.
on the lat arc. $12^{\circ}42'S$. on the decl arc and
determine a meridian with the solar at the cor.

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of sec. 15, 16, 21 and 22, heretofore described,

Thence I run

N^{0°02'W} bet. sec. 15 and 16.

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

5.00 Enter scattering cedar timber bear N.W. and S.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 16 on W. half, and S 15 on E half, from
 which.

A cedar 18 ins. in diam bear N^{55 $\frac{3}{4}$ °E} 116 lks.
 dist. marked $\frac{1}{4}$ S 15 B.T.

A cedar 6 ins. in diam. bear N^{73 $\frac{1}{2}$ °W} 41 lks.
 dist. marked $\frac{1}{4}$ S 16 B.T.

80.00 Set an iron post. 3 ft. long 2 ins. in diam. 24 ins.
 in the ground for cor. of sec. 9, 10, 15 and 16.
 marked on brass cap T 29 N. S. 9 in N.W. R 19 E.
 S 10 in N.E. S 15 in S.E. and S 16 in S.W. quadrant.
 from which.

A cedar 6 ins. in diam. bear S^{2°E} 224 lks.
 dist. marked T 29 N. R 19 E. S 15 B.T.

A cedar 10 ins. in diam. bear S^{11 $\frac{1}{2}$ °W} 183 lks dist.
 marked T 29 N. R 19 E S 16 B.T.

A cedar 8 ins. in diam bear N^{77 $\frac{1}{4}$ °W} 258
 lks. dist marked T 29 N. R 19 E S 9 B.T.

No other trees available

Dig pit 36 x 36 x 12 ins. in sec. 10, 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.

Timber Cedar.

40.00 S^{89°59'E} over random line bet. sec. 10 and 15
 Set temp. $\frac{1}{4}$ sec. cor.

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

S^{89°59'W} over true line bet. sec. 10 and 15

Chains

27

BOOK 2598

- Ascend S.E. slope of sand ridge over rolling land through scattering cedar timber and bunch grass.
- 20.00 Top of ridge bears N.E. and S.W. descend gently over N.W. slope.
- 39.94 Set an iron post. 3 ft. long 1 in in diam 26 ins in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap $\frac{1}{4}$ S 10 on N. half and S 15 on S half, from which
- A cedar 6 ins. in diam. bears N $2\frac{1}{4}^{\circ}$ E 64 lks. dist. marked $\frac{1}{4}$ S 10 B.T.
- A cedar 8 ins. in diam bears S $56\frac{1}{4}^{\circ}$ W 306 lks. dist. marked $\frac{1}{4}$ S 15 B.T.
- 79.88 The cor. of secs. 9, 10, 15 and 16, herein before described.
 Land rolling
 Soil sandy 3rd rate.
 Timber Cedar

February 15th 1909

BOOK 2593

- February 16th 1909, Alt. 3¹⁵ pm. Com. V. sub. off. 35° 55' N.
on the lat. arc, 12° 16¹/₂' Saw the decl. arc. and determine
a meridian with the solar in the cor. of sec. 9, 10, 15
and 16.
- Thruel Drive
N^o 02' W. lat. sec. 9 and 10
Over rolling sandy ^{land} through scattering cedar timber and
tough grass.
- 3.25 Road to Placca Ariz bears N.E. and S.W.
- 8.00 Top of low ridge bears N.E. and S.W. descend gradually
over N.W. slope.
- 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 W. W half and S 10 on E half, from which.
A cedar 6 ins. in diam. bears N 46¹/₄° E 187 lbs. dist.
marked $\frac{1}{4}$ S 10 B.T.
- A pinion pine 8 ins. in diam. bears S 80¹/₄° W 235-
lbs. dist. marked $\frac{1}{4}$ S 9 B.T.
- 44.00 Foot of descent, bears rolling land bears N.E. and S.W.
enter level land bears N.E. and S.W.
- 58.00 Road to Placca Ariz bears N.E. and S.W.
- 61.00 Dry sand wash 150 lbs wide, banks 4 ft. high
course S.W.
- 71.00 Level land bears N.E. and S.W. enter broken
stony mountainous land bears N.E. and S.W.
- 72.80 Top of steep ascent on S. edge of mesa, level
mountainous land bears N.E. and S.W., enter
rolling sandy mesa 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. 3, 4, 9 and 10. marked
on brass cap. T 29 N. S. 4 in N.W. R 19 E S 3 in N.E. S 10
in S.E. and S 9 in S.W. quadrants, from which.
A cedar 6 ins. in diam bears S 10¹/₂° E 182 lbs. dist.
marked T 29 N. R 19 E. S 10 B.T.
- A cedar 12 ins. in diam. bears S 11¹/₂° W 135 lbs. dist.
marked T 29 N. R 19 E S 9. B.T.
- No other trees available
Dig pits 24 x 24 x 12 ins in each sec. N.E. and N.W.
of post 5¹/₂ ft. dist. and raised mound of
earth 4 ft. base 2 ft. high W. of cor.
Land level, rolling and mountainous
Soil sandy and stony 2nd 3rd and 4th rate.

Timber pine and cedar
Mountainous land 180 chs.

February 16th 1909

Feb 18th 1909. Ah. 2^h 30^m from l. mt. Drehoff 35° 56' N.
on the lat. arc. 11° 35' S on the decl. arc and determine
a meridian with the solar ah the cor. of secs. 3, 4,
9 and 10, heretofore described,

Thence Drum

N 89° 59' E on a random line beth secs 3 and 10

40.00 Set temp 1/4 sec. cor.

79.90 Intersect N. and S. line 8 lks. S. of the cor. of secs.
2, 3, 10 and 11, heretofore described,

Thence Drum

S 89° 56' W on a true line beth secs. 3 and 10.

Descent gradually over N.W. slope over rolling sandy
land, through scattering cedar timber.

39.95 Set iron post 3/4" long 1 in. in diam. 26 ins. in
the ground. for 1/4 sec. cor. marked on brass cap
1/4 5 3 on N. half and 3, 10 on S half. found W. h. ch.
A cedar 4 ins. in diam. bear N. 68 1/4° W. 157 lks. dist.
marked 1/4 3 3 B, T.

A cedar 4 ins. in diam. bear S 55 1/2° W 64 lks. dist.
mhd. 1/4 3, 10 B, T.

47.00 Wch. edge of mesa leave rolling land bear N.E.
and S.W., descend N.W. slope over stony mountainous
land bear N.E. and S.W.

52.00 Foot of descent, leave stony mountainous land,
bear N.E. and S.W., enter rolling sandy land
bear N.E. and S.W.

58.00 Dry sand wash 300 lks wide banks, 4 ft high
course S.W., leave rolling land bear N.E. and
S.W., ascend S.E. slope over hilly land. bear N.E. and S.W.

63.75 Road to Placeau Trig bear N.E. and S.W.

69.00 Leave hilly land bear N.E. and S.W., ascend
abrupt rocky S.E. slope of mesa over mountainous
land bear N.E. and S.W.

72.00 Top of abrupt ascent on E. edge of mesa leave
mountainous land bear N.E. and S.W., enter
rolling sandy mesa land bear N.E. and S.W.

79.90 The cor. of secs 3, 4, 9, and 10, heretofore described.

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Land rolling hilly and mountainous
Soil sandy and stony 2nd 3rd and 4th rate.
Timber scattering pine, fir and cedar.
Mountainous land 8.00 chs.

40.00 No° 2' W. on a random line bet. sec 3 and 4
Sub. temp. sec. cor.

80.16 Intersect N. bdy. of Twp. 28 lks. ^{N. 89° 58' E} of the cor. of sec.
3, 4, 33 and 34, recently estab. by me & described in Exterior Book "R"
Thence D run

S 0° 14' E. on a true line bet. sec 3 and 4.
Ascend S. E. slope over rolling sandy land
through sage brush and bunch grass.

4.00 Enter scattering cedar timber bear E. and W.

6.00 Dry runne cross S. E. side.

11.00 Top of low ridge bear E. and W. desc.

40.16 Set an iron post 3 ft. long, 1 in. diam. 26 ins.
in the ground for 4 sec. cor. marked on brass
cap. 4 8 4 on W. half and 3 3 on E. half
from which.

A cedar 12 ins. in diam. bear S 53 1/4° E 40 lks.
dist. marked 4 8 3 B.T.

A cedar 8 ins. in diam. bear S 10° W. 142 lks. dist.
marked 4 8 4 B.T.

60.00 Wood road bear E. and W.

80.16 The cor. of sec 3, 4, 33 and 34, heretofore described.

Land rolling,
Soil sandy 2nd and 3rd rate
Timber Cedar.

February 18th 1909

Feb 10th 1909. Ab. 8th 00 am. C. m. l. Set of
35° 57 1/2' N. on the lat. arc. 14° 22 1/2' S. on the decl. arc
and determine a meridian with the solar at
the standard cor. of sec 32 and 33
on the S. bdy. of Twp, recently re-estab. by me & described in
Thence D run, re-surveying Standard Book "C"
No° 03' W. bet. sec 32 and 33

Chains

- 20.00 Over level sandy bottom land through sage and
 greasewood brush and bunch grass
 37.00 No trace of old 1/16 sec. cor. can be found.
 The Placea Wash 100 lbs. wide, banks 15 ft high.
 Course S.W.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 in.
 in the ground ^{re-established} for $\frac{1}{4}$ sec. cor. marked on bear
 exp. $\frac{1}{4}$ S 32 on W half and S 33 on E half.
 Dig pits 18x18x12 in. and S. of post 3 ft. dish
 and raise a mound of earth 3 1/2 ft. base 1 1/2 ft.
 high W of cor. I find no trace of the old 1/4 sec. cor.
- 56.25 Road to Placea Creek bears N.E. and S.W.
 60.00 No trace of old 1/16 sec. cor. can be found.
 70.00 Foot of mesa, level land bears N.E. and
 S.W. around abrupt rocky S.E. slope over ^{Stony}
 mountainous land bears N.E. and S.W.
- 77.25 Top of rocky ridge bears N.E. and S.W. descend
 over N.W. side.
- 80.00 Set an iron post 3 ft. long 2 in. in diam. 24 in.
 in the ground ^{re-established} for $\frac{1}{4}$ sec. cor. of sec. 28, 29, 32 and 33
 marked on bear exp. T 29 N. S 29 in N.W., R 19 E.
 S 28 in N.E. S 33 in S.E. and S 32 in S.W. quadrants.
 Raise a mound of stone 2 ft. base 1 1/2
 ft. high W of cor. Pits unpracticable
 Land level and mountainous.
 Soil sandy and stony 2nd 3rd and 4th rate.
 No timber.
 Mountainous land 10.00 chs
 I make a diligent search for the old cor. of sec. 28, 29, 32
 and 33. which I fail to find.

- 40.00 East on a random line beth sec. 28 and 33
 Set temp. $\frac{1}{4}$ sec. cor.
- 79.98 Intersect N. and S. line 5 chs. S. of ^{re-established} the cor. of sec.
 27, 28, 33 and 34, hereinbefore described,
 Thence I run, resurveying.
 S 89° 58' W. on a true line beth sec. 28 and 33
- 16.50 Over level sandy bottom land, through sage and
 greasewood brush undergrowth 2 ft. high.
 The Placea Wash. 80 lbs. wide, banks 8 ft.
 high. Course S.W.
- 20.00 No trace of old 1/16 sec. cor. can be found.
 34.00 Dry ravine 20 lbs. wide 4 ft. deep course S.E.
 35.00 Dry ravine 20 lbs. wide 4 ft. deep course S.E.

Chain

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38.50 Dry ravine 15 lbs. wide 4 ft. deep course S,
 39.99 Shaw iron post 3 ft. long 1 in. in diam. 26 ins.
 in the ground for ^{re-established} 1/4 sec. cor. marked on base
 cap. 4 S 28 on W half and S 33 on S half.
 Dig pits 18 x 18 x 12 ins and 1/2 and 1/4 of post: 3 ft. dist.
 and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft.
 high W. of cor. I fail to find any trace of the old 1/4 sec. cor.
 No trace of old 1/4 sec. cor. can be found
 60.00 Road to Tolacca Ariz base N.E. and S.W.
 66.50
 69.00 Land level land base N.E. and S.W., ascend
 steep rocky E. slope of mesa over mountainous
 land base N.E. and S.W.
 77.00 Top of rocky ridge base N. and S. desc.
 79.98 ^{re-established} the cor. of secs. 28, 29, 32 and 33, heretofore
 described.
 Land level and mountainous,
 Soil sandy and rocky 2nd 3rd and 4th rate.
 No timber.
 Mountainous land. 10,98 Chs.

N 0° 03' W. base Secs. 28 and 29, resurveying to 20.00
 Ascend S.E. slope over stony mountainous land.
 12.00 Top of spur base E. and W. descend abruptly.
 20.00 No trace of old 1/4 sec. cor. can be found.
 40.00 Shaw iron post 3 ft. long 1 in. in diam. 26
 ins in the ground for 1/4 sec. cor. marked on
 base cap 4 S 29 on W half and S 28 on E half.
 Raise a mound of stone 2 ft. base 1 1/2 ft. high W. of
 cor.
 Rts impracticable
 71.00 Top of spur base N.E. and S.W. desc.
 71.05 Wire fence base N.E. and S.W.
 76.00 Dry ravine course N.E. asc. S.E. slope.
 80.00 Shaw iron post 3 ft. long 2 in. in diam. 24 ins.
 in the ground for cor. of secs. 20, 21, 28 and 29
 marked on base cap T 29 N. S 20 in N.W.
 T 19 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 1/2 ft. dist.
 and raise a mound of earth 4 ft. base, 2 1/2 ft.
 high W. of cor.
 Land mountainous
 Soil sandy and stony 3rd and 4th rate.

Chains

No timber

Mountainous land, 80.00 chs.

NOTE

At this Cor. D set off $14^{\circ}20'2''$ S. on the decl. arc, and at 12^h14^m p.m. level observe the sun on the meridian and obtain on the lab. arc a reading of $35^{\circ}53'$ etc.

W $89^{\circ}58'$ E on a random line bet. sec. 21 and 28.

40.00 Set temp 4 sec. Cor

80.02 Intersect N and S. line at the Cor. of sec. 21, 22, 27 and 28, hereinbefore described,

Thence D run

S $89^{\circ}58'$ W. on a true line bet. sec. 21 and 28.

Ascend S.E. slope over hilly, sandy and stony land.

through sage and greasewood brush and growth

10.00 Top of rocky ridge bet. N and S. desc. W slope.

40.01 Set an iron post 3 ft. long 1 in. in diam. 26 in. in the ground for $\frac{1}{4}$ sec. cor. marked on base cop. $\frac{1}{4}$ S. 21 on N. half. and S 28 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 $9\frac{1}{2}$ ft. base $\frac{1}{2}$ ft. high N. of cor.

44.00 Road to Placea Ariz bet. N.W. and S.E.

47.70 Road to Placea Ariz bet. N and S.

49.00 Dry sand wash 200 lbs. wide banks 8 ft. high.

Chains S.E. and N.E. slope over mountainous land from N.W. and S.E.

67.90 Wire fence bet. N.E. and S.W.

68.00 Top of spur from N.E. and S.W. desc.

72.00 Dry ravine course N.E. desc.

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

Land hilly and mountainous

Soil stony and stony 3rd and 4th rate.

No timber

Mountainous land 37.02 chs.

February 10 1909

Feb 16th 1909 at 7^h30^m a.m. ^{limit} D set off $35^{\circ}53'$ N. on the lab. arc, $12^{\circ}20'2''$ S. on the decl arc and

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determine a meridian with the solar at the
cor. of sec. 20, 21, 28 and 29, heretofore described,
Thence down

N 0° 3' W. bet. sec. 20 and 21.

Descend N.W. slope over mountainous land
through sage and greasewood brush, undergrowth and
sage grass

20.00 Leave mountainous land bears N.W. and
S.E. Enter hilly land bears N.W. and S.E.

22.00 Road to Placea Ariz. bears N.W. and S.E.

27.50 Dry sand wash 100 lbs. wide banks 6 ft high
Course S.E. Ascend S.W. slope.

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
bear Cas 4 S 20 on W. half and S 21 on E half.
Dig pits 18x18x12 ins. N and S. of post 3 ft. dia,
and raise a mound of earth 3 ft. base, 1 1/2 ft.
high W. of cor.

50.00 Top of ridge bears N.E. and S.W. desc.

63.30 Road to Placea Ariz bears N.E. and S.W.

67.00 Dry ravine Course S.W. asc gradually.

82.00 Set an iron post 3 ft. long 2 in. in diam, 24
ins. in the ground for cor. of sec. 16, 17, 20 and
21. marked on bear Cas T 29 N. S 17 in N.W.,
R 19 E S 16 in N.E. S 21 in S.E. and S 20 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 hilly and mountainous

Soil sandy and stony 2nd and 3rd rates

No timber

Mountainous land 20.00 chd

N 89° 58' E on a random line bet. sec. 16 and 21
40.00 Set trip $\frac{1}{4}$ sec. cor.

80.02 Intersect N. and S line 12 lbs. N. of the cor. of sec.
15, 16, 21 and 22, heretofore described,
Thence down

N 89° 57' W at true line bet. sec. 16 and 21.

Descend N.W. slope, over rolling sandy mesa land,

Chain

- through sage and greasewood brush and bunch grass.
- 40.01 Set an iron post 3 ft. long 1 in. in diam. 2.6 ins. in the ground for 4 Sec. Cor. marked on brass cap. $\frac{1}{4}$ 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. dia., and raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high N. of cor.
- 50.00 Enter scattering cedar timber tract N. and S.
- 56.90 West edge of mesa. Leave rolling sandy land bear N. and S., descend W slope over stony mountainous land bear N. and S.
- 60.00 Foot of abrupt rocky descent, leave mountainous land bear N. and S. enter rolling sandy land bear N. and S.
- 69.00 Leave timber tract N. W. and S. E.
- 79.25 Road to Placea bear N. E. and S. W.
- 80.02 The Cor. of sec. 16, 17, 20 and 21, heretofore described. Land rolling and mountainous, Soil sandy and stony 3rd and 4th rate. Timber Cedar
 Mountainous land 310 chs.
-
- N 0° 03' W Leg. Recs. 16 and 17.
- Ascend gradually over S. E. slope, through sage and greasewood brush and bunch grass
- 13.00 Top of sand ridge bear N. E. and S. W. Desc. gradually over N. W. slope
- 20.00 Dry sand wash 80 lbs. wide, banks 5 ft. high course S. W.
- 23.00 The same wash course S. E.
- 33.50 The same wash course S. W. ascend S. E. slope of ridge.
- 34.00 Enter scattering cedar timber tract N. E. and S. W.
- 40.00 Set an iron post 3 ft. long 1 in. in diam. 2.6 ins. in the ground for 4 sec. cor. marked on brass cap $\frac{1}{4}$ S 17 on W. half, and S 16 on E half. from which.
- A Cedar 14 ins in diam bear N 60 $\frac{1}{2}$ ° E 317 lbs dia. marked $\frac{1}{4}$ S 16. B. T.

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- 60.00 A cedar 6 ins. in diam, bears $357\frac{1}{2}^{\circ}W$ 393 lks. dist, marked 14 S. 17 B.T.
- 64.20 Leave rolling land bears NE and SW, ascend abruptly over rocky S.E. slope of mesa over mountainous land bears N.E. and S.W.
- 69.25 Top of abrupt rocky ascent on S. edge of mesa, leave mountainous land bears N.E. and S.W., enter rolling sandy land bears N.E. and S.W. ascend gradually.
- 75.00 Top of mesa bears N.E. and S.W. descend N.E. slope
- 78.00 Road to Placca Ariz bears N.W. and S.E.
- 80.00 Bottom of depression bears N.W. and S.E. asc.
- 80.00 Set an iron post 3ft. long, 2 ins. in diam, 24 ins. in the ground for Cor. of sec. 8, 9, 16 and 17, marked out bears cap. T29 N. S8 in N.W. R19 E S9 in N.E. S16 in S.E. and S17 in S.W. ^{quadrant} from which.

A cedar 12 ins. in diam, bears $N. 6\frac{3}{4}^{\circ}E$ 230 lks. dist, marked T29 N. R19 E. S9 B.T.

A cedar 14 ins in diam, bears $S 25\frac{1}{2}^{\circ}E$ 183 lks. dist, marked T29 N. R19 E S16 B.T.

A cedar 4 ins. in diam, bears $S 11\frac{1}{2}^{\circ}W$ 47 lks. dist, marked T29 N, R19 E S17 B.T.

A Cedar 8 ins. in diam, bears $N 79\frac{1}{2}^{\circ}W$ 143 lks. dist, marked T29 N, R19 E. S8 B.T.

Land rolling and mountainous.
Soil sandy and rocky 3rd and 4th rate.
Timber Cedar

Mountainous land 4.20 chs.

NOTE On this Cor I set off $12^{\circ}19\frac{1}{2}'$ S on the decl. arc and at 12^h 14^m p.m. L.M.C. observed the sun on the meridian, the resulting latitude being $35^{\circ}55' 41''$.

S89°57'E on a random line bet. sec. 9 and 16.

40.00 Set temp 7 sec. Cor.

80.08 Intersect N and S. line 5 lks. N. of the Cor. of sec. 9, 10, 15 and 16, heretofore described.
Thence I run

Chain

Links

37

- N 89° 55' W on a true line to h. sec. 9 and 16.
 Descend N.W. slope over sandy mixed land through
 scattering Cedar timber and, sage and grass
 wood brush undergrowth.
- 2.25 Road bears N and S,
 18.90 West edge of mesa. leave rolling land bears
 N.E. and S.W. descend S.W. slope over stony moun-
 tainous land bears N.E. and S.W.
- 23.00 Top of abrupt descent leave stony mountainous
 land bears N.E. and S.W., enter rolling sandy
 land bears N.E. and S.W. descend gradually
- 33.70 Road bears N and S. leads to Placed Ariz.
 40.04 Set an iron post. 3 ft. long in a draw. 26
 ins. in the ground for $\frac{1}{4}$ sec. cor. marked out
 bears Cap 7 S 9 on N. half and S 16 on S half
 from which,
 A cedar 14 ins. in diam bears N 29° W 244 lbs.
 dist. marked $\frac{1}{4}$ S 9, P.T.
 A cedar 10 ins. in diam bears S 74 $\frac{1}{2}$ ° E 116
 lbs. dist. marked $\frac{1}{4}$ S 16 P.T.
- 40.25 Dry ravine 10 lbs. wide 3 ft. deep course S.W.
 47.75 Dry sand wash 100 lbs. wide 6 ft. deep
 course S.W. ascend S.E. slope of ridge on hilly land.
- 52.00 Top of ridge bears N.W. and S.E. desc S.W. slope
 74.00 Dry ravine course S.E. ascend N.E. slope.
 80.08 The cor. of sec. 8, 9, 16 and 17, herebefore described.
 Land rolling, hilly and mountainous.
 Soil sandy and stony 2nd and 3rd and 4th rate,
 Timber Cedar
 Mountainous land 4.10 ch.

February 16th 1909

Feb 18th 1909
 At 10^h 30^m a.m. I set off. 35° 55' N. on the
 lat. arc. 11° 38 $\frac{1}{2}$ ' S on the decl. arc and determined
 a meridian with the solar alt. the Cor. of. sec
 8, 9, 16 and 17, herebefore described,
 Thence I run
 N 0° 53' W. to h. sec. 8 and 9.
 Descend N.E. slope over hilly sandy land through
 scattering Cedar timber and sage brush under

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- growth.
- 0.75 Dry ravine course S.E. asc.
- 2.00 Top of sand ridge bears NW and S.E. desc.
- 8.00 Dry ravine course S.E. asc.
- 14.00 Foot of mesa bears hilly land bears NE and S.W., ascend abrupt rocky S.E. slope over mountainous land bears NE and S.W.
- 16.00 Top of abrupt rocky acanthon S. edge of mesa leads mountainous land bears NE and S.W. ascend gradually over rolling mesa lands bears NE and S.W.
- 24.00 Dry ravine 40 lbs. wide 30 ft. deep course SW
- 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 48 on W half and 89 on E half from which.
- A cedar 10 ins. in diam, bears N 32° W 341 lbs. dist marked $\frac{1}{4}$ 88 B.T. No other trees available.
- 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.
- 43.00 Road to Old Coal Criz bears NE and S.W.
- 46.00 Leave timber bears E and W.
- 80.00 Set an iron post 3 ft. long, 2 ins. in diam, 24 ins. in the ground for cor. of sec. 4, 5, 8 and 9, marked on brass cap T 29 N. S 5 in NW, R 19 E S 4 in NE, S 9 in S.E. and S 8 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 hilly and mountainous. Soil sandy and stony 2nd 3rd and 4th rate.
- Timber Cedar
- Mountainous land 2.00 chs.
- NOTE At this cor Dept of 11° 37 $\frac{1}{2}$ ' S on the decl. arc and at noon observe the sun on the meridian, the resulting latitude being 35° 56' N.

Bellevue

39

40.00 S 89° 55' E on a random line bet. sec. 4 and 9
 bet temp 4 sec. cor.

80.20 Intersect N and S line 2 lks. N of cor. of sec. 3, 4, 9 and
 10, hereinbefore described.
 Thence Drum
 N 89° 54' W. on a true line bet. sec. 4 and 9,
 descend gradually W. slope over rolling sandy
 land, through scattering cedar timber.

17.00 Dry ravine Course S. asc.

40.10 Set an iron post 3/4 in. long 1 in. in diam. 26 ins. in
 the ground for 4 sec. cor. marked on brass cap.
 N 45° 40' W. half. and S 90° W. half., from which
 a cedar 8 ins. in diam. bears N 60° W. 31 1/4 lks.
 dist. marked 1/4 S + B.T.

W cedar 10 ins. in diam. bears S 18 3/4° E 147 lks.
 marked 1/4 S 9 B.T. dist.

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

52.00 Rear timber bears N. and S. at foot of descent
 in depression bears N. and S., asc gradually
 S.E. slope.

63.90 Road to Polacca bears N.E. and S.W.

80.20 The cor. of sec. 4, 5, 8 and 9, hereinbefore described.
 Land rolling,
 Soil sandy 3rd rate.
 Timber Cedar.

N 0° 03' W. on a random line bet. sec. 4 and
 5

40.00 Set temp 4 sec cor.

80.04 Intersect N. ldy of Twp. 4 lks N 89° 58' E. of the cor.
 of sec. 4, 5, 32 and 33, recently estab. by me and
 described in Exterior Book "R"
 Thence Drum
 S 0° 05' E. on a true line bet. sec. 4 and 5
 Ascend N.W. slope over rolling sandy land through
 sage brush and greasewood undergrowth
 and bunch grass.

30.00 Enter scattering cedar timber bears N.E.
 and S.W.

Chain

BOOK 2593

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
beas cap $\frac{1}{4}$ 35 on W half and 34 on E half.
from which.

A pine 8 ins. in diam. bears $N69^{\circ}E$ 94 lks.
dirt marked $\frac{1}{4}$ 34 B.T.

A cedar 14 ins. in diam., bears $S29\frac{1}{2}^{\circ}W$ 86
lks. dirt marked $\frac{1}{4}$ 35 B.T.

45.00 Top of high sand ridge bears $N.E.$ and $S.W.$ desc.

76.00 Leave timber bears $E.$ and $W.$

80.04 The cor. of secs 4, 5, 8 and 9, heretofore described.
Land rolling and hilly.
Soil sandy 3rd rate.
Timber Cedar.

February 18th 1917

February 11th 1909
Ch 8, 00, and 11
D. run off $35^{\circ} 31\frac{1}{2}' N$
on the lat. arc $14^{\circ} 03' S.$ on the decl. arc and determine
a meridian with the solar at the stand cor. of
secs. 31 and 32 on the S. edge of the Pp., recently re-estab.
by me & described in Standard Book "C"

Thence I run
 $N0^{\circ} 03' W.$ to sec 31 and 32.

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

12.25 Dry ravine corner S.E. cor.

20.50 Top of sand ridge bears $N.W.$ and $S.E.$

39.00 Foot of mesa, leave, hilly land bears $N.E.$ and $S.W.$
ascend abruptly rocky S.E. slope over mountainous
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
beas cap $\frac{1}{4}$ 31 on W half and 32 on E half.
Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high
W. of cor. This impracticable

45.70 Top of ascent on S. edge of mesa leave stony
mountainous land bears $N.E.$ and $S.W.$, enter
rolling sandy mesa 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 secs. 29, 30,
31 and 32, marked on beas cap T29 N.
330 in $N.W.$ R19 E. 329 in $N.E.$ 332 in $S.E.$ and
331 in $S.W.$ quadrants

Chains

41

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

Land rolling hilly and mountainous.
 Soil sandy and stony 2nd 3rd and 4th rate
 No timber

Mountainous land 6.70 chs.

40.00 Cash on a random line bet. sec. 29 and 32
 bet temp 1/4 sec cor.

80.12 Intersect N. and S. line 5 lks. N. of the ^{re-established} cor. of
 sec. 28, 29, 32 and 33, heretofore described,
 Thence S run

Or 89° 58' W. on a true line bet. sec. 29 and 32

30.00 Ascend E. slope over stony hilly land, through
 sage and greasewood bush and bunch grass
 Partly hilly land bears N and S., ascend abrupt
 rocky E. slope over mountainous land bears N,
 and S.

38.50 Top of steep rocky ascent on E. edge of high
 mesa bears N. and S., leave mountainous land
 bears N and S., enter rolling mesa land
 bears N. and S.

40.06 Set an iron post 3 ft long in, in diam, 2 1/2
 ins. in the ground for 1/4 sec. cor. marked
 on bears Cap 1/4 S 29 on N. half, and S 32 on
 S. half.

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

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

Land rolling, hilly, and mountainous.
 Soil sandy and stony 2nd 3rd and 4th rate.
 No timber
 Mountainous land 8.50 chs

40.00 West on a random line bet. sec. 30 and 31
 bet temp 1/4 sec. cor.

79.76 Intersect W. line of N. 12 lks. N. of the cor.

36
BOOK 2593.of secs. 25, 30, 31 and 32, recently estab. by me & described
in Exterior Book "A"

Thence down

N 89° 55' E on a true line bet. secs. 30 and 31
Over low rolling sand hills, through scattering
large brush undergrowth and bunch grass.39.76 Set an iron post 3/4 in. long, 1 in. in diam., 26 ins.
in the ground for 1/4 sec. cor. marked out
bear cap 4 S. 30 on W. half and 331 on S
half.Dig pits 18x18x12 ins E and W. of post 3/4
dia and raise a mound of earth 3 1/2 ft -
base 1 1/2 ft high. N. of cor.79.76 The Cor. of secs., 29, 30, 31 and 32, heretofore
land hilly described.
Soil sandy 3rd rate.
No timber.

N 0° 03' W bet. secs. 29 and 30

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

32.00 Top of low sand ridge bears N.E. and S.W.

37.00 Enter cedar timber bears E and W.

40.00 Set an iron post 3/4 in. long 1 in. in diam., 26
ins. in the ground for 1/4 sec. cor. marked out
bear cap 4 S 30 on W. half and S. 29 on E. half
from which.A cedar 7 ins. in diam. bears N 20 3/4° E 179
lbs. dia. marked 1/4 S. 29 B.T.A cedar 5 ins. in diam. bears S 64° W 24 lbs.
dia. marked 1/4 S. 30 B.T.

61.00 Road to Place's ranch bears E. and W.

61.60 North edge of mesa, leave rolling mesa
land bears E. and W. descend abruptly
rocky N slope over mountainous land, bears E and W.04.00 Foot of descent in depression. bears E and W
asc. abruptly over S. slope of spur.

75.00 Top of rock spur bears E and W descend

Chain

abruptly over rock ledge
 80.00 Set an iron post 3 ft. long 2 ins. in diam. 24
 ins. in the ground for cor. of sec. 19, 20, 29
 and 30, marked on brass cap T29 N 319
 in N.W. R19 E. S. 20 in N.E. S 29 in S.E. and
 S. 30 in S.W. quadrant, from which
 A Cedar 5 ins. in diam bears S 15 1/4° E 169
 lks. dist. marked T29 N. R19 E. S 29 B.T.
 A Cedar 12 ins. in diam. bears S 47 1/4° W 56
 lks. dist. marked T29 N. R19 E S 30 B.T.
 A Cedar 10 ins. in diam. bears N 88 1/2° W 386
 lks. dist. marked T29 N. R19 E S. 19 B.T.
 No other trees available.
 Dig pit. 36x36x12 ins in sec 20. 5 1/2 ft. dia.
 and raise a mound of earth 4 ft. base 2 ft.
 high W of cor
 Land rolling and mountainous.
 Soil sandy and stony 3rd and 4th rate.
 Timber Cedar

Mountainous land. 1840 Chs.

NOTE Clouds obscured the sun at noon today
 rendering an observation for latitude with
 the solar impossible Feb 11th 1909

Feb 17th 1909 Ch. 7th 45^m am. Int. Dist of 33° 53' N. on
 the lat. arc. 12° 01' S. on the decl. arc and determine
 a meridian, with the solar at the cor. of sec 19, 20, 29 and 30 Thence S run

40.00 Set temp 4 cor. cor.
 80.16 Intersect N. and S line at the cor. of sec
 20, 21, 28 and 29, heretofore described,
 Thence S run
 N 89° 58' W. on a true line bet. sec. 20 and
 29
 Ascend N.E. slope over hilly sandy land.
 through sage and greasewood bush under-
 growth and bunch grass.

35.00 Dry annual course N.E. Enter scattering
 Cedar timber from N.E. and S.W. ascend
 S.E. slope of high sand ridge

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 brass
 cap 1/4 S 20 on N. half and S 29 on S. half, from

BOOK 2593

which.

A cedar 8 ins. in diam. bears $N 23^{\circ} W$ 141 lks.
dish marked $\frac{1}{4} S. 20 B.T.$

A cedar 10 ins. in diam bears $S 45 \frac{1}{2}^{\circ} E$ 267 lks. dish
marked $\frac{1}{4} S 29 B.T.$

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

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

73.50 Dry ravine course N.E. asc.

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

80.16 The cor. of secs. 19, 20, 29 and 30, heretofore described.

Land lilly.

Soil sandy 2nd and 3rd rate

Timber Cedar.

40.00 $S 89^{\circ} 55' W$ on a random line bet. secs. 19 and 30
Set temp $\frac{1}{4}$ sec. cor.

49.84 Intersect W. ldy of Twp. 5 lks. N. of the cor. of
secs. 19, 24, 25 and 30; recently estab. by me & described
There is a drum in Exterior Book "Q"

$N 89^{\circ} 53' E$ on a true line bet. secs. 19 and 30

Ascend gradually over W. slope through
sage and greasewood brush and bunch
grass.

11.00 Road to Place d'Ariz bears N.E. and S.W.

35.00 Enter scattering cedar timber bears N.E. and
S.W.

39.84 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.
from which

A cedar 6 ins. in diam. bears $N 83 \frac{1}{4}^{\circ} E$ 226
lks. dish marked $\frac{1}{4} S 19 B.T.$

A cedar 6 ins. in diam bears $S 59 \frac{3}{4}^{\circ} W$ 281
lks. dish marked $\frac{1}{4} S. 30 B.T.$

70.00 E. ash edge of mesa bears N and S. level,
rolling land bears N and S, descend. abrupt
rocky E slope on mountainous land bears
N and S.

73.00 Foot of abrupt descent leaves mountainous land

Chains

77.74

bears N. and S. enter hilly land bears N and S.
 The cor. of sec. 19, 20. 29 and 30, here before described.
 Land rolling hilly and mountainous.
 Soil sandy and stony 3rd and 4th rate.
 Timber pinon pine and cedar.
 Mountainous land 3.00 Chs.

N. 0° 03' W. bet. sec. 19 and 20.
 Descend steep N. slope over hilly land through
 scattering cedar timber and sage and greasewood
 brush undergrowth and bunch grass.

8.00

Top of descent in depression drains N.E.
 ascend S.E. slope.

12.00

Top of mesa. leave hilly land bears N.E.
 and S.W., ascend abrupt rocky S.E. slope
 over mountainous land bears N.E. and
 S.W.

16.20

Top of abrupt rocky arc on S edge of
 mesa, leave mountainous land and timber
 bears N.E. and S.W. enter rolling sandy 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 Cop. $\frac{1}{4}$ S 19 on W. half and S 20 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 in. in diam,
 24 ins. in the ground for cor. of sec. 17, 18
 19 and 20, marked on brass Cop. T 29 N. S 18
 in N.W. R19 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 $\frac{1}{2}$ ft.
 dia. and raise a mound of earth 4 ft. base
 2 ft. high W. of cor.

Land rolling and mountainous.
 Soil sandy and stony 3rd and 4th rate.
 Timber Cedar

BOOK 2593

NOTE

Mountainous land, 4.20 chs,
 Ch this cor. Obs. Hgt. $11^{\circ} 58\frac{1}{2}'$ S. on the decl. arc.
 and at 12^h 14^m pm. Comt. observed the sun on
 the meridian. the resulting lat. being $35^{\circ} 54' 72''$.

- 40.00 S $89^{\circ} 58' E$ on a random line bet. sec. 17 and 20.
 Sec. temp. 4 sec. cor.
- 80.08 Intersect N. and S. line 8 lks. N. of the cor. of sec. 16
 17, 20. and 21, heretofore described,
 Thence S and
 N $89^{\circ} 55' W$. on a true line bet. sec. 17 and 20.
 Descend W. slope over hilly land through scattering
 cedar timber.
- 9.00 Dry ravine at foot of descent course S. asc.
- 30.00 Foot of mesa, leave hilly land bear N.E. and
 S.W. Ascend abruptly rocky S.E. slope over mountainous
 land bear N.E. and S.W.
- 33.36 Top of abrupt rocky ascent on E. edge of mesa
 thence across point of mesa.
- 36.00 Begin steep rocky descent over W. slope.
- 40.04 Set and iron post 3 ft. long 1 in. in diam. 26 ins.
 in the ground for $\frac{1}{4}$ sec. cor. marked on bear
 cap $\frac{1}{4}$ S. 17 on N. half and S 20. on S. half
 from which.
 A cedar 14 ins. in diam. bear N $83\frac{3}{4}' W$ 76 lks.,
 dist. marked $\frac{1}{4}$ S 17 B.T.
 A pinion pine 6 ins. in diam. bear S $71\frac{1}{4}' E$
 24 lks. dist. marked $\frac{1}{4}$ S. 20 B.T.
- 44.00 Foot of descent in dry ravine course S.E. asc.
 abruptly.
- 48.00 Top of abrupt rocky ascent on E. edge of
 mesa, leave mountainous land bear N.E.
 and S.W. enter rolling sandy mesa land
 bear N.E. and S.W. Last timber bear N.E. and S.W.
- 80.08 The cor. of sec. 17, 18, 19 and 20, heretofore described.
 Land rolling, hilly, and mountainous.
 Soil sandy and stony 2nd 3rd and 4th rate.
 Numerous pinion pine and cedar
 Mountainous land 14.00 chs

Behains

47

- 40.00 S89°53' W. on a random line bet. sec. 18 and 19.
 Set temp $\frac{1}{4}$ sec. cor.
- 79.66 Intersect. W. l. l. of Np. 8 l. h. S. of the cor. of sec. 13, 18, 19 and 24, recently estab. by me & described in Exterior Book "Q".
 Thence I run
- N 89°56' E on a true line bet. sec. 18 and 19
 Ascend W. slope over rolling sandy land.
 through sage and greasewood brush undergrowth
 and bunch grass.
- 25.00 Enter scattering Cedar timber tract N.E. and S.W.
- 39.66 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 $\frac{1}{4}$,
 318 on N. half and 319 on S. half, from which
 A cedar 8 ins. in diam bears N 79° E 260 lbs.
 dist. marked $\frac{1}{4}$ 318 B.T.
- A cedar 5 ins. in diam bears S 20° 15' E
 278 lbs. dist. marked $\frac{1}{4}$ 319 B.T.
- 46.78 Road to Phacav ranch bears N.E. and S.W.
- 48.00 Leave timber tract N.E. and S.W.
- 79.66 The cor. of sec. 17, 18, 19 and 20, heretofore described.
 Land rolling
 Soil sandy, 3rd rate.
 Timber Cedar.

February 17th 1909

- Feb 18th 1909
 At 7^h 00^m a.m. l.m.t. Set off 35° 54' W
 on the lath arc. 11° 37' S on the decl. arc. and
 determine a meridian with the solar at the
 cor. of sec. 17, 18, 19 and 20, heretofore described,
 Thence I run
- N 0° 03' W bet. sec. 17 and 18
 Over rolling sandy mesa land through
 sage and greasewood brush undergrowth.
- 5.00 Enter scattering Cedar timber tract 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 $\frac{1}{4}$ 318 on W half and 317 on E half,
 from which.
 A cedar 8 ins. in diam bears S 48° E 86 lbs.
 dist. marked $\frac{1}{4}$ 317 B.T.

BOOK 2593

No other trees within limits.

Dig pits 18x18x12 ins. 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.

45.90 Road to Place's ranch bears N.E. and S.W.

77.00 Depression, drains to the N.W. ascend gradually.

80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for cor. of sec. 7, 8, 17 and 18, marked out bears S. 7 in N.W. R₁₉E. S 8 in N.E. S 17 in S.E. and S 18 in S.W.

quadrant. from which,

A cedar 12 ins. in diam. bears N 41 3/4° E 278 lbs dist. marked T 29 N. R₁₉E S 8 B.T.A cedar 6 ins. in diam. bears S 64° E. 299 lbs. dist. marked T 29 N. R₁₉E. S 17 B.T.A cedar 6 ins. in diam. bears S 88° W / 364 lbs. dist. marked T 29 N. R₁₉E. S 18 B.T.A cedar 8 ins. in diam. bears N 51° W / 158 lbs dist. marked T 29 N. R₁₉E S 7 B.T.

Land rolling

Soil sandy 3rd rate

Number Cedar.

S 89° 55' E. on a random line bet. sec 8 and 17
40.00 Set temp 1/4 sec. cor.

50.00 Intersect N and S line 2 lbs. N. of the cor. of sec. 8, 9, 16 and 17, heretofore described,

Thence Drive

N 89° 54' W. on a true line bet. sec 8 and 17.

Ascend abruptly over E. slope of mesa through scattering cedar and pine & fine timber, and sage and greasewood brush undergrowth.

2.00 Top of abrupt ascent on E. edge of mesa at level broken stony land bears N.E. and S.W. enter rolling sandy mesa land bears N.E. and S.W.

3.90 Road bears N.W. and S.E. leads to Place's ariz.

12.00 Top of ascent on ridge bears N.E. and S.W.

Chains

49

- descend over S.W. slope.
- 38.50 Road to Place's ranch. 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
out brass cap $\frac{1}{4}$ 38 on N. half. and 317 on S
half. from which.
- A cedar 5 ins. in diam. bears N $13\frac{3}{4}^{\circ}$ E 355 lbs. dist.
marked $\frac{1}{4}$ 38 B.T.
- A prairie pine 12 ins. in diam. bears S $64\frac{3}{4}^{\circ}$ E
281 lbs. dist., marked $\frac{1}{4}$ 317 B.T.
- 45.50 Dry ravine at foot of descent. Course S.E. asc.
- 53.00 Top of sand ridge bears N.E. and S.W. desc.
- 80.00 The cor. of secs. 7, 8, 17 and 18, heretofore described.
Land rolling hilly and broken.
Soil sandy land about 2nd and 3rd rate.
Number prairie pine and cedars.

February 18th 1909

- 1909
Feb 19th Ab. 7^h 15^m am. l. m. to Desh. off $35^{\circ} 55' N$.
on the lat. arc $11^{\circ} 16\frac{1}{2}'$ 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 Drive
- S 89° 56' W. on a random line bet. sec. 7 and 18.
- 40.00 Set temp $\frac{1}{4}$ sec. cor.
- 79.52 Intersect W. l. dry. of N^o 5 l. m. N. of the cor. of sec.
7, 12, 13 and 18, recently estab. by me & described in Exterior
Book "Q"
- Thence Drive
- N 89° 54' E on a true line bet. sec. 7 and 18
Over level sandy land. through sage and
greasewood brush undergrowth and scattering
bunch grass
- 16.00 Leave level land bears N.E. and S.W. ascend.
step rocky N.W. slope over mountainous land.
- 18.00 Top of abrupt rocky ascent on W. edge of
mesa. Leave mountainous land bears
N.E. and S.W., enter rolling sandy mesa
land bears N.E. and S.W. Ascend gradually
- 39.52 Set an iron post 3 ft. long 1 in. in diam., 26

BOOK 2598

ins. in the ground for $\frac{1}{4}$ sec. cor. marked on
transcript S. 7 on N. half, and S 18 on S half
from which

A cedar 8 ins. in diam. head N. $58^{\circ} 2' W$ 248
lks. dist, marked $\frac{1}{4}$ S 7, B.T.

A juniper pine 6 ins. in diam. head S $16^{\circ} 2' W$
112 lks. dist, marked $\frac{1}{4}$ S. 18 B.T.

47.00 Dry ravine 15 lks. wide 2 ft. deep course S.W.

66.00 Road to Placca's ranch head N and S.

75.00 Dry ravine 10 lks. wide 2 ft. deep course S.W. etc.

79.52 The cor of secs 7, 8, 17 and 18, heretofore described.

Land level rolling and mountainous.

Soil sandy and rocky 2nd 3rd and 4th rate

Timber Juniper pine and cedar.

mountainous land 2.00 chs.

N $0^{\circ} 03' W$ bet. secs. 7 and 8.

Over rolling sandy mesa land through
scattering Juniper pine and cedar timber
and bunch grass. Ascend S.E. slope

6.00 Leave timber head E and W.

16.00 Top of sand ridge head N.E. and S.W. desc.
gradually over N.W. slope.

30.00 Enter scattering cedar timber head N.W. and
S.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
 $\frac{1}{4}$ S 7 on W half and S 8 on E half., from
which

A cedar 14 ins. in diam. head S $6^{\circ} E$ 202 lks.
dist, marked $\frac{1}{4}$ S 8 B.T.

A cedar 12 ins. in diam head N $17^{\circ} 2' W$
266 lks. dist, marked $\frac{1}{4}$ S. 7 B.T.

40.85 Road to Placca's ranch head 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
5, 6, 7 and 8. marked on transcript 729

N. S. 6 in N.W. R 19 E S 5 in N.E. S 8 in S.E.

and S 7 in S.W. quadrants from which

Chains

51

A Cedar 6 ins. in diam. bears $N 29\frac{1}{2}^{\circ} E 9$ lks.
 dist. marked T 29 N., R 19 E. S 5 B.T.
 A Cedar 8 ins. in diam., bears $S 25^{\circ} E 49$ lks.
 dist. marked T 29 N., R 19 E S. 8 B.T.
 No other trees available
 Dig pits 24x24x12 ins. in each sec. S.W. and
 N.W. of post 5 1/2 ft. dist and raise a mound
 of earth 4 ft. base, 2 ft. high W. of cor.
 Land rolling
 Soil sandy 2nd and 3rd rate.
 Timber Pinon, Birch and Cedar.

S 89° 54' E on a random line bet. sec 5 and 8.
 40.00 Set temp 1/4 sec. cor.

79.94 Intersect N and S. line 5 lks. N. of the cor. of
 sec. 4, 5, 8 and 9, hereinbefore described,
 Thence Drive

W 89° 52' W on a true line bet. sec 5 and 8.
 Descend W. slope over rolling sandy mesa
 land.

12,00 Enter scattering Cedar timber bears N E and S W.
 39.97 Set an iron post 3 ft. long 1 in. in diam. 26 ins.
 in the ground for 1/4 sec. cor. marked on brass.
 Cop 1/4 S 5 on N. half. and S 8. on S half., from
 which.

A Cedar 8 ins. in diam. bears $N 21\frac{1}{4}^{\circ} W 99$.
 lks. dist., marked 1/4 S. 5 B.T.

A Cedar 10 ins. in diam. bears $S 44^{\circ} W 32$
 lks. dist. marked 1/4 S. 8. B.T.

79.94 The cor. of sec. 5, 6, 7, and 8.

Land rolling
 Soil sandy 3rd rate.
 Timber Cedar.

NOTE,

At the 1/4 sec. cor bet. sec 5 and 8, ^{above described} D. bet. off.
 $11^{\circ} 16'$ 'Sow the decl. arc. and at $12^{\text{h}} 14^{\text{m}}$ from
 l.m. C. observe the sun on the meridian
 the resulting latitude being $35^{\circ} 56'$ 'N.

February 19, 1909

BOOK 2593

Feb 20th 1909 Ch. 8th 00m a.m. ^{l.m.t.} Dish off.
35°56' N. on the lab arc, 10°57½' S on the
decl arc, and determined a meridian with
the solar alt. the cor of sec 5, 6, 7 and 8,
Thence Drum ^{heretofore} described.

S 89°54' W on a random line bet. sec 6 and 7.

40.00 Set temp 4 sec. cor.

79.40 Intersect N. line of Twp. 19 S. E. of the W.C.

to cor. of sec. 11, 6, 7 and 12, recently estab. by me &
described in Exterior Book "2"

Thence Drum, from true cor. point,
N 89°52' E on a true line bet. sec. 6 and 7.

In dry ravine course S.W.

00.50 Leave dry ravine course S.W. enter level
land bear N.E. and S.W.

31.00 Leave level land bear N.E. and S.W. enter

stony mountainous land and cedar timber bear N.E. and S.W.

Ascend abruptly over N.W. slope of mesa.

36.00 Top of abrupt rocky ascent on W. edge of

mesa, leave mountainous land and

tinber bear N.E. and S.W., enter rolling

sandy mesa land, bear N.E. and S.W.

39.40 Set old iron post 3 ft. long, 1 in. in diam., 26 ins.

in the ground for 4 sec. cor. marked on

bear cap 4 86 on N. half and 8 7 on S.

half.

Dig pits 18x18x12 ins. E and W. of post 3 ft.

high, and raise a mound of earth 3½ ft.

base, 1½ ft. high. N. of cor.

45.00 Enter scattering cedar timber bear N.E.

and S.W.

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

Land level, rolling and mountainous.

Soil sandy and rocky 2nd 3rd and 4th rate

Timber Cedar

Mountainous land. 5.00 Chs.,

N 90°03' W. on a random line bet. sec 5 and 6.

40.00 Set temp 4 sec. cor.

79.90 Intersect N. line of Twp. 12 S. E. of the ^{89°58½'}

Cham

Cor of sec. 5, 6, 31 and 32, recently estab. by me &
 Thence down described in Exhibit Book "R"

S 0° 8' E on a true line bet. sec. 5 and 6
 Descend S.W. slope over rolling sandy land through
 scattering cedar timber, and bunch grass

8.00 Leave rolling sandy land, bear E. and W.
 descend S. slope over broken stony land bear
 E and W.

10.50 Top of abrupt descent in small canyon
 100 ft deep bear E and W. ascend abruptly
 over N. slope.

14.00 Top of abrupt ascent on S. side of canyon
 leave broken stony land bear E and W.
 enter rolling sandy land bear E and W.
 ascend gradually over N. slope.

35.00 Top of ascent on sand ridge bear NE and
 SW. descend gently over S.E. slope

39.90 Set an iron post 3 ft. long 1 in. in diam. 26
 ins. in the ground for $\frac{1}{4}$ sec. cor. marked
 on bear cap $\frac{1}{4}$ S 6 on W. half, and S 5 on E.
 half. from which.

A cedar 8 ins. in diam. bear N 82 $\frac{1}{2}$ ° E 57 lks. dist.
 marked $\frac{1}{4}$ S 5 B.T.

A cedar 4 ins. in diam. bear N 65 $\frac{1}{2}$ ° W 97 lks.
 dist. marked $\frac{1}{4}$ S 6 B.T.

60.00 Top of cliffs on N. side of canyon, bear N and S.W.
 leave rolling land bear E and W. descend
 abrupt rocky S. slope over stony mountainous
 land bear N.E and S.W.

64.50 Top of descent in Canyon course W. asc
 abruptly over N. slope.

69.00 Top of abrupt rocky ascent on S. side of
 Canyon, leave mountainous land bear
 N.E. and S.W. ascend N.W. slope over rolling
 sandy mesa land bear N.E and S.W.

79.90 The cor. of sec. 5, 6, 7 and 8, heretofore described.
 Land rolling, broken and mountainous.
 Soil sandy and stony 2nd 3rd and 4th rate.
 Timber Cedar.

Mountainous land 9 obs.

February 20th 1909

General Description

The land comprised in this township varies from level to mountainous. the greater portion however being rolling sandy mesa land. the soil ranging from stony to sandy loam. the soil along the Polacca wash which flows through the south eastern portion of the township in a south westerly direction is a sandy loam which produces good crops. without the aid of irrigation, the soil of the remaining portion of the township except the stony mountainous portion can all be classed as 3rd rate. is covered with a thick growth of bunch grass. which affords fine pasture for stock.

The mesa portion of the township is covered with a scattered growth of pinion pine and cedar timber. Valuable for fuel and posts for fencing purposes only.

The extensive bodies of sandstone which underlie nearly the whole township, is too soft to have any value as a building stone. No mineral was found in the township however in a number of places outcroppings of slate which overlie the coal deposits in other townships, was found, and it is very probable that the mesa portion of this township is also underlain by coal beds.

The township is poorly watered the only spring found in the township, being that at Wm Polacca's house in sec 30

There is only one actual settler in the township.

The township is valuable principally for grazing purposes.

Widney E. Blount

Feb. 20 - 1909

U.S. Examiner of Surveys

NOTE Dual affidavits in book ✓ of Subdivision.

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

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LIST OF NAMES.

BOOK 2593

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

Examiner of Groups

United States ~~Deputy Surveyor~~, to assist in running, measuring, and

marking the lines and corners described in the foregoing field notes of the survey ^{and resurvey} of the Sub-division

Lines of Twp. 29 N. R. 19 E. of the Gila and Salt River Base and Meridian in the Territory of Arizona

showing the respective capacities in which they acted:

- | | |
|--|------------------------|
| <u>Jay E. Jellick and David L. White</u> | <u>Compassman</u> |
| <u>Lafayette Jennings</u> | , Chainmen. |
| <u>Arthur A. Beard</u> | , Chainman. |
| <u>Fred L. Warner</u> | , Moundman. |
| | , Moundman. |
| <u>Chas. L. Shumway</u> | , Axman. |
| | , Axman. |
| <u>Harry Lake May</u> | , Flagman. |

FINAL OATH OF ASSISTANTS

We hereby certify that we assisted _____

_____, United States Deputy Surveyor, in surveying all

those parts or portions of the _____

_____ of the _____

_____ meridian, _____ of _____, which are represented

in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor

General for _____

- | | |
|-------|-------------|
| _____ | , Chainman. |
| _____ | , Chainman. |
| _____ | , Moundman. |
| _____ | , Moundman. |
| _____ | , Axman. |
| _____ | , Axman. |
| _____ | , Flagman. |

See Subdivisional Book

Subscribed and sworn to before me this _____

day of _____, 190 _____



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BOOK 2593

EXAMINER OF SURVEYS
FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from _____ United States Surveyor General for _____, bearing date of the _____ day of _____, 190____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____ of the _____ meridian, in the _____ of _____, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

See Subdivision Book

United States Deputy Surveyor.

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



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona APR 25 1, 1904

The foregoing field notes of the survey ~~of~~ *and resurvey of the*

Subdivision lines of Township 29 North, Range 19 East, of the

Gila and Salt River Base and Meridian, Arizona.

executed by *Sidney E. Blotz, U.S. Examiner of Surveys*
under ~~his contract~~ *special instructions from the Commissioner of the General Land Office*, 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 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.