

MAR 28 1911

Subdivisional
BOOK R

2596

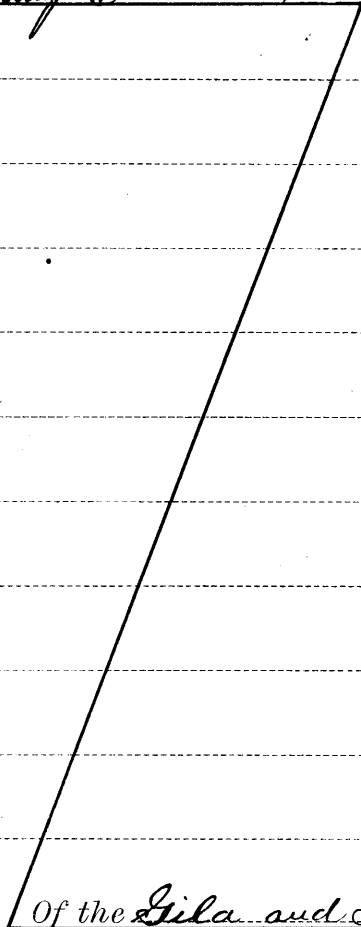
BOOK 2596

FIELD NOTES

OF THE SURVEY OF THE

Subdivision lines of Twp. No. 30 North of

Range No. 17 East



Of the Gila and Salt-Rim Base and Meridian,

in the Territory of Arizona

EXECUTED
AS SURVEYED BY

Sidney E. Bloix, United States Deputy Surveyor,

Special Instructions from the Commissioner of the General Land Office

Under ~~his~~ Contract No. _____, dated October 2nd 1907 and May 15th _____, 190

Survey commenced March 25th, 1909

Survey completed April 7th, 1909

1A

NAMES AND DUTIES OF ASSISTANTS.

<u>Van L. White</u>	<u>Compassman</u>
<u>Jay E. Fellick</u>	<u>Chairman and Flagman</u>
<u>Lafayette Jennings</u>	<u>Chairman</u>
<u>Arthur A. Beard</u>	<u>Chairman and Arman</u>
<u>Fred L. Warner</u>	<u>Moundman</u>
<u>Harry Lake May</u>	<u>Flagman</u>
<u>Chas. L. Shumway</u>	<u>Arman and Chairman</u>

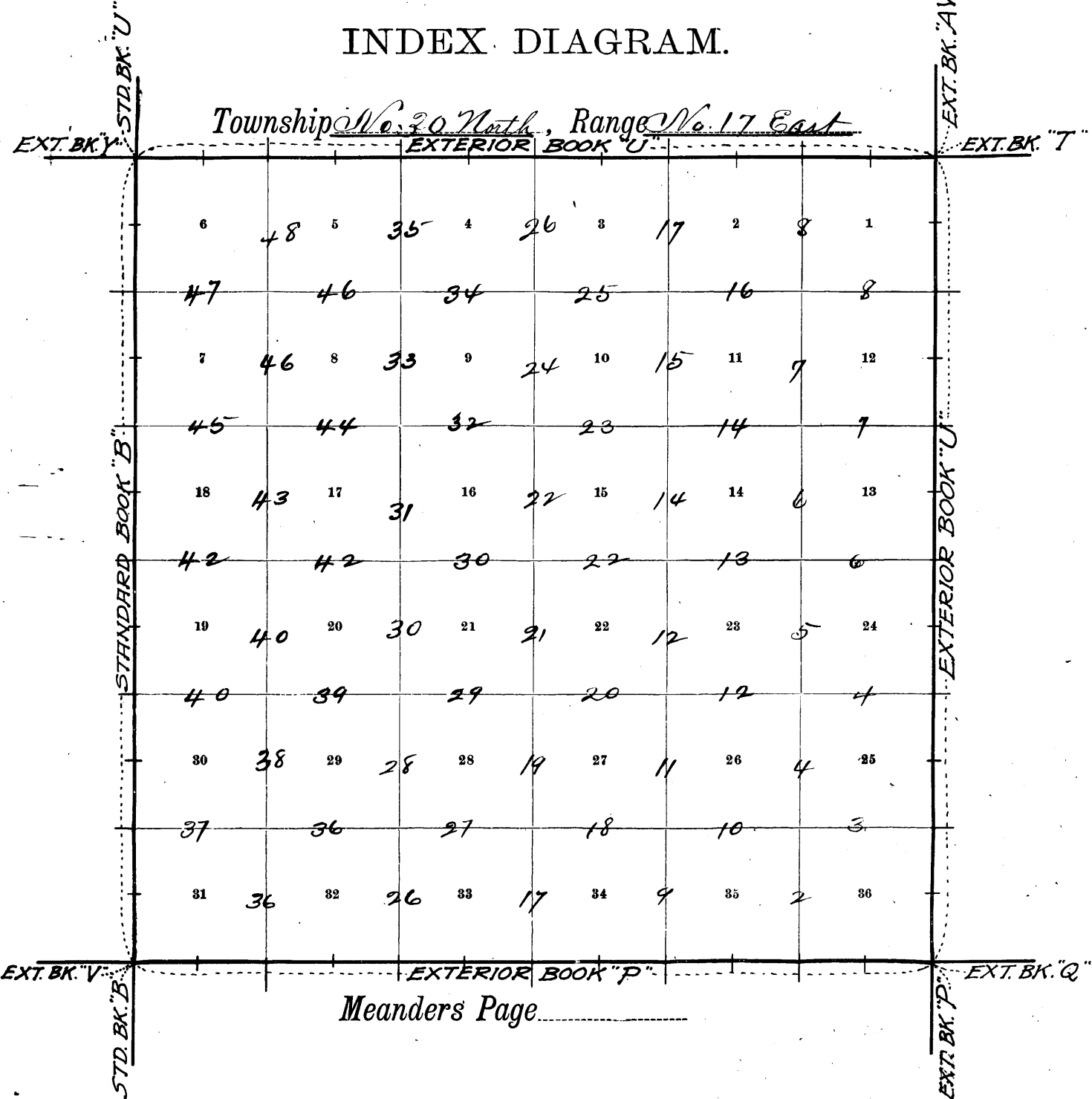
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Book No. 2596

INDEX DIAGRAM.

Township No. 20 North, Range No. 17 East

EXTERIOR BOOK "U"



Meanders Page

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 }



Survey commenced March 25th 1909 and executed with a W & L. E. Gurley engineers transit No. 10 with a Burt Solar attachments. The horizontal limb being provided with one double vernier reading to single minutes of arc., the verniers of the latitude and declination arcs reading to 0' 30" of arc.

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

At my Camp which is located near the cor. of sec. 14, 15, 22 and 23. T 30 N. R17 E. Latitude $35^{\circ}59'N$. Longitude $110^{\circ}30'W$. I set off $35^{\circ}59'N$ on the lat. arc $1^{\circ}58'N$ on the decl. arc, and at 4th 00^m p.m. l.m.t. determine 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 7th 10^m p.m. l.m.t. by my watch which is correct local mean time I observe Polaris at western elongation in accordance with instructions in the Manual, and mark the direction thus determined by a tack driven in a stake set in the ground 5 chs. N. of my instrument.

March 25-1909

1909
March 26th At 7th 00^m a.m. l.m.t. I lay off the azimuth of Polaris $1^{\circ}27.5'$ to the east and mark the meridian thus determined by a tack driven in the stake set last evening on which the meridian falls, 0.3 ins. west of the point determined by the solar. At 7th 30^m a.m. l.m.t. I set off $35^{\circ}59'N$ on the lat. arc $2^{\circ}08\frac{1}{2}'N$ 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 station, This point falls 0.15 ins. west of the meridian established by the Polaris observation.

The solar apparatus by p.m. and a.m. observations defined positions for meridians respectively about 0' 16" east and 0' 08" west of the meridian established by

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the Polaris observation, therefore I conclude that the adjustments of the instrument are satisfactory.

I begin at the cor. of sec. 1, 2, 35 and 36 on the S. side of Twp. 30 N. R. 17 E., which I established Dec. 24th 1908. Land described in Exterior Book "P".
Latitude $35^{\circ} 56' 40''$ N. Longitude $110^{\circ} 29' 08''$ W.

At this cor. I set off $35^{\circ} 57'$ N. on the lat. arc. $2^{\circ} 09\frac{1}{2}'$ N. on the decl. arc and at $9^{\text{h}} 30^{\text{m}}$ a.m. ^{l.m.t.} determine a meridian with the solar. These I run
ON $0^{\circ} 01' W.$ for sec. 35 and 36.

Around S.W. slope over hilly sandy and stony land through heavy pinion pine and cedar timber and scattering bunch grass.

- 20.00 Top of ridge head N.E. and S.W. desc. N.E. slope.
25.00 Dry ravine course S.W. asc. S.E. slope.
30.00 Top of ridge head N.E. and S.W. desc. N.E. slope.
36.00 Dry ravine course S.W. asc.
40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap $\frac{1}{4}$ S 35 on W half and S 36 on E half. from which.
A cedar 12 ins. in diam. head $7138^{\circ} E$ 252 lbs. dist. marked $\frac{1}{4}$ S 36 B.T.
A cedar 8 ins. in diam. head $7168^{\circ} W$ 274 lbs. dist. marked $\frac{1}{4}$ S 35 B.T.
57.00 Top of high ridge head E and W desc. N slope.
76.00 North edge of mesa. head N.E. and S.W. leave hilly sandy land head N.E. and S.W. descend abruptly over stony mountainous land 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. 25, 26, 35 and 36. marked on brass cap. T 30 N. S 26 in N.W. R. 17 E S 25 in N.E. S 36 in S.E. and S 35 in S.W. quadrant, from which.
A pinion pine 8 ins. in diam. head $7138\frac{1}{2}^{\circ} E$ 83 lbs. dist. marked T 30 N R 17 E S 25 B.T.
A pinion pine 6 ins. in diam. head $S 18\frac{1}{4}^{\circ} E$ 25 lbs. dist. marked T 30 N R 17 E S 36 B.T.
A pinion pine 8 ins. in diam. head $S 18^{\circ} W$ 166 lbs. dist. marked T 30 N R 17 E S 35 B.T. and.
A pinion pine 8 ins. in diam. head $7167\frac{3}{4}^{\circ} W$ 69 lbs. dist. marked T 30 N. R 17 E S 26 B.T.
Land hilly and mountainous.
Soil sandy and stony 3rd and 4th rate.
Timber pinion pine and cedar

Chain

3

mountainous land. 4 chs.

N 89° 53' E. on a random line bet. sec. 25 and 36.

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

80.20 Intersect E. l. of Twp. 30 N. 8. chs. N. of the cor. of sec. 25, 30, 31 and 36, recently estab. by me & described in Exterior Book "U" Thence Drive.

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

5.50 Ascend N.E. slope over hilly sandy land through pinion pine and cedar timber, and bunch grass Road bears N. and S. leads to Plover Ariz. used as a wood road.

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

30.00 Dry ravine course N.

36.00 Wood road bears N and S.

38.00 Dry ravine 10 chs. wide 2 ft. deep. course N. asc. E. slope

40.10 Set a iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground. for $\frac{1}{4}$ sec. cor. marked on base esp. $\frac{1}{4}$ S 25 on N. half and S 36 on S half. from which.A pinion pine 8 ins. in diam. bears N 21 $\frac{1}{2}$ ° W 110 chs. dist. marked $\frac{1}{4}$ S 25 B.T.A cedar 6 ins. in diam. bears S 32° W 104 chs. dist. marked $\frac{1}{4}$ S 36 B.T.

NOTE

At this cor. I set off 2° 12' N. on the decl. arc and at 12^h 45^m 54^{sec} pm. I observed the sun on the meridian the resulting latitude being 35° 57 $\frac{1}{2}$ ' N.

43.50 Dry ravine 15 chs. wide 3 ft. deep course N.E.

52.00 Wood road bears N and S.

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

76.00 Leave hilly land bears N.E. and S.W., enter mountainous land bears N.E. and S.W. desc. abruptly over W. slope of mesa.

79.00 Dry ravine course N. asc.

80.20 The cor. of sec. 25, 26, 35 and 36, heretofore described. Land hilly and mountainous.

Soil sandy and stony 3rd and 4th rate.

Timber pinion pine and cedar.

mountainous land 4.20 chs.

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N 0° 01' W beh. sec 25 and 26.

Descend n. slope of mesa over stony mountainous land through scattering juniper pine and cedar timber and bunch grass.

9.00 Dry ravine course n.w. asc. steep s.w. slope.

16.00 Pp. of sand ridge bears E and W. desc steep n. slopes.

18.50 Foot of steep descent leaves stony mountainous land bears n.e. and s.w. enter hilly land bears n.e. and s.w.

35.00 Dry ravine course n.w. asc.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on bears Exp $\frac{1}{4}$ S 26 on W half and S 25 on E half. from which.

A cedar 24 ins. in diam. bears N 50 $\frac{3}{4}$ ° E 39 lbs. dist. marked $\frac{1}{4}$ S 25 B.T.

A cedar 20 ins. in diam. bears S 72° W 153 lbs. dist. marked $\frac{1}{4}$ S 26 B.T.

53.00 Leave timber bears E and W.

58.00 Pp. of sand ridge bears E and W. desc n. slopes.

63.00 Foot of descent in depression. bears n.e. and s.w. drains to the s.w. asc.

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 Exp T 30 N S 23 in n.w. R 17 E S 24 in n.e. S 25 in s.e. and S 26 in s.w. quadrants.

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

Land hilly and mountainous.

Soil sandy and stony 3rd and 4th rate.

Timber juniper pine and Cedar.

Mountainous land. 18.50 chs.

N 89° 56' E on a random line beh. sec 24 and 25-

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

80.16 Intersect E line of Pp. 3 lks. S of the cor. of sec. 19, 24, 25, and 30, recently estab. by me & described in Exterior Book "U" Thence Drive

S 89° 55' W. on a true line beh. sec 24 and 25-

Descend n.w. slope over rolling sandy land. through

Chain

5

37.5 scattering sage bush undergrowth and bunch grass
Wood road bears N 8 and S W.

13.50 Dry ravine course N. W. ass. N. E. slope.

40.08 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in
the ground for $\frac{1}{4}$ sec. cor. marked on brass cap $\frac{1}{4}$
S 24 on N. half and S 25 on S half.
Dig pits 18x18x12 ins. East W of post. 3 ft. dia and raise a
mound of earth 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high N. of cor.

42.00 Enter nearly level land bears N and S.

54.00 Old Wood road bears N and S.

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

80.16 The cor. of sec. 23, 24, 25 and 26, herebefore described.
Land rolling.
Soil sandy 3rd rate.
No timber.

No 01st W. h. sec. 23 and 24.
Arced gently over S. W. slope, through scattering
sage bush undergrowth and bunch grass.

18.00 Top of gradual desc. land rolling land bears East W.
enter level land bears East 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. 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. 13, 14, 23 and 24
marked on brass cap T 30 N S 14 in N. W. R 17 E S 13
in N. E. S 24 in S. E. and S 23 in S. W. quadrach
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 level and rolling.
Soil sandy 3rd rate.
No timber.

March 26th 1907

1909

March 29th At 7^h 00^m a.m. L. M. V. D set off. $35^{\circ} 59' N$,
on the lat arc $3^{\circ} 19' N$, on the decl. arc and determine
a meridian with the solar on the cor of sec, 13, 14
23 and 24, ^{heretofore described} Thence S run

N $89^{\circ} 55' 8''$ on a random line bet. sec, 13 and 24

40.00 Set trip to sec. cor

80.20 Intersect E & S day of Twp. 10 lbs. N. of the cor. of sec 13
18, 19 and 24, recently estab. by one & described in Exterior Book "U"
Thence S run

S $89^{\circ} 59' W$, on a true line bet. sec 13 and 24

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

15.00 Dry rammed 10 lbs. wood 2 ft. deep. corner W. of

40.10 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the
ground for $\frac{1}{4}$ sec. cor. marked on brass cap to S 13 on
N. half and S 24 on S. half.

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

80.20 The cor. of sec. 13, 14, 23 and 24, heretofore described.

Land rolling.

Soil sandy 3rd rate.

No timber.

N $0^{\circ} 01' W$ bet. sec. 13 and 14.

Descend N. slope over nearly level sandy land, through
sage and greasewood brush and bunch grass.

32.00 Bottom of depression bet. N.E. and S.W. drains to the
S.W. asc. gently 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 to S 14 on W. half
and S 13 on E. half.

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

80.00 Set an iron post 3 ft. long 2 ins. in diam. 24 ins. in
the ground, for cor. of sec. 11, 12, 13 and 14 marked
on brass cap T 30 N S 11 in N.W. R 17 E S 12 in N.E. S 13 in
S.E. and S 14 in S.W. quadrant.

Dig pits 18 x 18 x 12 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.

Chains

7

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

N 89° 59' E on a random line bet. sec. 12 and 13.

40.00 Set temp & sec cor.

80.20 Intersect E bdy of Twp. 5. lks. N. of the cor. of sec. 7, 12, 13 and 18, 19. These 3 runs recently established by me & described in Exterior Book "C"

N 89° 59' W. on a true line bet. sec. 12 and 13

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

25.00 Dry ravine 20 lks. wide 3 ft. deep course N.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. marked on brass cap. "4312 on N. half and 313 on S half.

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

At this cor. set off 3° 22' N. on the decl. arc and at 12th 05th p.m. l.m.t. observe the sun on the meridian the resulting latitude being 36° 00' 41".

63.00 Begin gradual descent over N.W. slope.

80.20 To cor. of sec. 11, 12, 13 and 14, heretofore described.

Land rolling
Soil sandy 3rd rate.
No timber.

N 0° 01' W bet. sec. 11 and 12

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

29.50 Dry ravine 10 lks wide 5 ft. deep course N.W. as above

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 "4311 on W. half. and 312 on E. half.

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

52.00 Top of low ridge runs N.E. and S.W. desc. gently.

67.00 Leave rolling land. Run N.E. and S.W. enter level land.

Subdivision of Twp 30 N. R 17 E.

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80.00 Set an iron post 3 ft. long, 2 ins in diam. 2 1/2 ins in the ground for cor. of sec. 1, 2, 11, and 12. marked on brass cap T 30 N. S 2 in N.W. R 17 E S 1 in N.E. S 12 in S.E. and S 11 in S.W. quadrants.
 Dig pits 18 x 18 x 12 ins. in each sec 5 1/2 ft. dirt and raise a mound of earth 4 ft. base, 2 ft. high W of cor.
 Land level and rolling.
 Soil sandy 3rd rate.
 No timber.

89°59' E on a random line bet. sec. 1 and 12
 40.00 Set turf 1/4 sec. cor.
 80.24 Intersect E. bdy of Twp. at the cor. of sec. 1, 6, 7 and 12, recently estab. by post and described in Exterior Book "U"
 There is a road

89°59' W. on a true line bet. sec. 1 and 12
 Ascend S.E. slope over rolling sandy land through scattering sage and greasewood brush undergrowth and bunch grass.

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

40.12 Set an iron post 3 ft. long 1 in. in diam. 2 1/2 ins. in the ground for 1/4 sec. cor. marked on brass cap 1/4 S 1 on N half and S 12 on S. half, from which,
 A cedar 8 ins. in diam. bears N 37° W 2 x 2 ch. dist. marked 1/4 S 1 B.T.

A cedar 10 ins. in diam. bears S 30 3/4° E 378 ch. dist. marked 1/4 S 12 B.T.

45.00 Dry ravine course N.W.

74.50 Top of sand stone ledge 10 ft. high W bears N and S

78.00 Leave rolling land bears N and S. enter level land bears N and S.

80.24 The cor. of sec. 1, 2, 11 and 12, heretofore described.
 Land level and rolling.
 Soil sandy and stony 3rd and 4th rate.
 Number scattering cedar near the 1/4 sec. cor.

0°01' W on a random line bet. sec. 1 and 2

40.00 Set turf 1/4 sec. cor.

79.90 Intersect N. bdy. of Twp. 585 ch. N. 89° 58' E. of the western cor.

Subdivision of Twp 30 N. R 17 E

Chains

9

- recently estab. by me and described in Exterior Book "U" to cor. of sec. 1, 2, 35 and 36. Thence from true point for cor. of sec. 1, 2, 35 and 36 & run.
- S⁰ 5' W. on a true line bet. sec. 1 and 2.
- Over level adobe bottom land, subject to overflow to a depth of about 1 foot.
- 20.00 Enter cultivated land bears E and W.
- 31.00 Leave cultivated land bears NE and SW
- 34.90 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for 1/4 sec. cor. marked on base exp 1/4 32 on W half and 31 on E half.
- Dig pits 18x18x12 ins. N and S of post 3 ft. dist, and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high. W. of cor.
- 54.00 Enter cultivated land bears E and W.
- 70.00 Leave cultivated land bears E and W.
- 72.50 An Indian Hogan bears W. 50 lks. dist
- 79.90 The cor. of sec. 1, 2, 11 and 12, heretofore described.
- Land level.
- Soil sandy and adobe 2nd and 3rd rate.
- No timber.

March 29th 1909

- 1909
- March 27th Ch. 7^h 30^m a.m. l.m.t. S⁰ 35' 57" N. on the lab. arc. 2° 32' N. on the decl. arc. and determine a meridian with the solar at the cor. of sec. 2, 3 34 and 35 on the E. side of the Twp. Thence from N 0° 01' W bet. sec. 34 and 35 -
- Around S. slope of ridge through pine and cedar timber.
- 5.00 Top of ridge bears E and W desc.
- 11.50 Dry ravine course SW. asc.
- 15.00 Top of ridge bears NE and SW, desc
- 34.00 Rocky ravine course SW. asc.
- 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 base exp 1/4 34 on W half and 35 on E half, from which,
- Cedar 8 ins. in diam bears S 35° E 263 lks. dist. marked 1/4 35 B.T.
- Cedar 6 ins. in diam. bears N. 82° W 187 lks. dist. marked 1/4 S. 34 B.T.
- 54.00 Top of ridge bears E and W, desc.
- 56.00 Leave timber bears NE and SW.
- 60.00 Dry ravine course W asc.

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- 65.00 Wood road bears E and W.
- 67.00 Top of ridge bears E and W. desc.
- 80.00 Set an iron post 3ft long 2 ins. in diam 24 ins. in the ground for cor of sec. 26, 27, 34 and 35 marked on brass cap. T 30 N 3 27 in N.W. R 17 E S 26 in N.E., S 35 in S.E. and S 34 in S.W. quadrant.
- Dig pits 18x18x12 ins. in each. sec. 5 1/2 ft. dist and raise amount of earth 4 ft base 2 ft high W of cor
- Land rolling and hilly
- Soil sandy 3rd rate.
- Timber pinion pine and cedar
-
- 40.00 Set temp 1/4 sec. cor.
- 80.24 Intersect N and S. line 10 chs. N. of the cor. of sec. 25-26, 35 and 36, heretofore described,
- Thence S run
- S 89° 57' W. on a true line bet. sec. 26 and 35 -
- Ascend N.E. slope of spur over stony mountainous land through pinion pine and cedar timber
- 5.00 Top of rocky spur bears N and S. desc.
- 25.50 Dry ravine course N. asc
- 27.00 Wood road bears N.W. and S.E.
- 33.00 Dry ravine 50 chs wide 10 ft. deep course N.E. asc
- 37.50 Wood road bears N and S.
- 40.12 Set an iron post 3ft long 1 in. in diam, 26 ins in the ground for 1/4 sec. cor. marked on brass cap. 1/4 S 26 on N half and S 35 on S half. from which
- A pinion pine 4 ins. in diam bears N 0 1/2° W 41 chs. dist. marked 1/4 S 26 B.T.
- A pinion pine 4 ins. in diam. bears S 39 3/4° E 121 chs. dist. marked 1/4 S. 35 B.T.
- 46.50 Top of ascent on rocky spur. bears N and S. leaves mountainous land bears N and S. desc W. slope over broken hilly land bears N and S.
- 49.00 Leaves stony land bears N and S., enter sandy land.
- 63.00 Leaves timber bears N.E. and S.W.
- 70.00 Dry ravine course N.W.
- 76.50 Old wood road bears N.W. and S.E.
- 80.24 The cor. of sec. 26, 27, 34 and 35, heretofore described.
- Land broken hilly and mountainous

Chain

11

Soil sandy and stony 3rd and 4th rate.
 Timber Fir, Spruce and Cedar.
 Mountainous land 46.50 Chs.

N 0° 01' W bet. sees 26 and 27.

Descend N.W. slope over hilly sandy and stony land, through sage brush undergrowth and buckgrass
 12.00 Enter scattering pine and cedar timber tract East W.

24.00 Dry ravine Course N.E. are. abruptly

40.00 Set an iron post 3ft. long 1 in. in diam. 26 ins. in the ground for 4 sec. cor. marked on brass cap 1/4 S 27 on W. half and S 26 on E. half, from which.

A cedar 14 ins. in diam. bears N 42 1/2° E 113 lbs. dist. marked 1/4 S 26 B.T.

A cedar 12 ins. in diam. bears S 43° W 171 lbs. dist. marked 1/4 S 27 B.T.

50.00 Recross hilly land bears N.E. and S.W., enter level land bears N.E. and S.W.

58.00 Dry ravine 6 lbs wide 2ft. deep Course S.W.

59.00 Dry ravine 6 lbs wide 1 ft. deep Course S.W.

66.00 Leave level land bears N.E. and S.W. ascend 3 slopes over broken stony land. bears N.E. and S.W.

80.00 The point for the Cor. seen. 22, 23, 26 and 27, falls on a large sandstone boulder, where I am unable to establish a post. Cor., therefore I cut a cross (+) at the exact cor. point and at:

80.15 Set an iron post 3ft long 2 ins in diam. 24 ins in the ground for witness cor. to cor. of sees. 22, 23, 26 and 27, marked on brass cap W.C. on N. half T 30 N, S 22 in N.W. R 17 E S 23 in N.E. S 26 in S.E. and S 27 in S.W. quadrant, from which.

A pine 8 ins. in diam. bears N 41 1/4° E 132 lbs dist. mkt'd. W.C.T 30 N R 17 E S 23 B.T.

A cedar 14 ins. in diam. bears S 82 3/4° E 114 lbs. dist. mkt'd. W.C.T 30 N. R 17 E S 26 B.T.

A pine 6 ins. in diam. bears S 13 1/2° W 183 lbs. dist. mkt'd. W.C.T 30 N. R 17 E S 27 B.T.

A pine 5 ins. in diam. bears N 61 1/4° W 126 lbs. dist. mkt'd. W.C.T. 30 N. R 17 E S 22 B.T.

Land level hilly and broken
 Soil sandy and stony 3rd and 4th rate.

BOOK 2596

NOTE

Timber pinion pine and cedar.

Wh. this W.C. I set off $2^{\circ}35\frac{1}{2}'$ N on the decl. arc, and at $12^h 05^m 36^s$ pm. lmt. of sun on the meridian the resulting latitude being $35^{\circ}58\frac{1}{2}'$ N.

From true point for cor. of secs. 22, 23, 26 and 27, I run, $N 89^{\circ}57' E$ on a random line bet. secs 23 and 26.

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

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

$S 89^{\circ}58' W$ on a true line bet. secs. 23 and 26

Descend SW. slope over rolling sandy land, through scattering sage brush undergrowth and bunch grass

20.00 Foot of descent in a depression betw N.E. and S.W. drains to the S.W.

40.00 Enter scattering pinion pine and cedar timber betw N and S.

40.13 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 exp. $\frac{1}{4} S 23$ on N half and $S 26$ on S half. from which.

Cedar 10 ins. in diam. bears $N 67^{\circ} W$ 200 lks. dist. marked $\frac{1}{4} S 23 B.T.$

A pinion pine 8 ins in diam. bears $S 7^{\circ} E$ 218 lks. dist. marked $\frac{1}{4} S 26 B.T.$

45.00 Dry ravine 10 lks wide 3 ft. deep course S.W.

76.50 Dry ravine 15 lks wide 3 ft. deep course S.W.

80.26 ^{True point for} the cor. of secs. 22, 23, 26 and 27,

Land rolling.

Soil sandy 3rd rate.

Timber pinion pine and cedar.

From above corner point, I run, $N 0^{\circ} 01' W.$, bet. secs 22 and 23

Over stony hilly land, through scattering pinion pine and cedar timber.

0.115 Witness cor. to cor. of secs. 22, 23, 26 and 27, hereinbefore described.

10.00 Leave stony land betw N.E. and S.W., enter sandy land betw N.E. and S.W.

13.00 Top of ridge betw N.E. and S.W. desc. gradually N.W. slope.

31.50 Dry ravine course N.E.

38.00 A point 2 chs. West of spring.

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 exp. $\frac{1}{4} S 22$ on W. half and $S 23$ on E half.

Subdivision of P¹ 30 N. R17 E

Lebanon

from which.
A pinion pine 14 ins in diam. bears N71 1/4° E 192 lbs. dist marked 1/4 S 23 B.T.

A pinion pine 14 ins. in diam. bears N75 1/4° W 26 lbs. dist. marked 1/4 S. 22 B.T.

60.00 Dry ravine 10 lbs. wide 2 ft. deep course N.E.

71.00 Level timber bears E. and W.

80.00 Set an iron fork 3 ft. long 2 ins. in diam. 24 ins. in the ground for cor. of sect 14, 15, 22 and 23. marked on brass cap T30N S15 in N.W. RITE S14 in N.E. S23 in S.E. and S22 in S.W. quadrants Dig pits 18 x 18 x 12 ins. in each see 5 1/2 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.

Land rolling and broken.

Soil sandy and stony 3rd and 4th rate.
Number pinion pine and cedars

March 27th 1909

1909
March 30th 1909
at 7^h 00^m a.m. L.m.t. set off 35° 59' N. on the Leb. arc, 3° 42' N. on the decl. arc, and determine a meridian with the solar at the cor. of sects 14, 15, 22, and 23, heretofore described.

Three Drums

N 89° 58' E on a random line bet. sects, 14 and 23

40.00 Set trip 1/4 sec. cor.

80.24 Distances N and S line 8 lbs. S of the cor. of sects. 13, 14, 23, and 24, heretofore described
Three Drums

S 89° 55' W. on a true line bet. sects, 14 and 23

Over broken hilly sandy and stony land, through scattering cedar timber.

2.00 Dry ravine course N.W. asc. N.E. slope

19.75 Dry ravine 10 lbs. wide 3 ft. deep course N.E.

40.12 Set an iron fork 3 ft. long 1 in. in diam., 20 ins. in the ground for 1/4 sec. cor. marked on brass cap 1/4 S14 on N. half and S23 on S half. from which

A cedar 12 ins. in diam. bears N11 1/2° E 283 lbs. dist. mkt. 1/4 S. 14 B.T.

A cedar 8 ins. in diam. bears S 7 1/4° E 156 lbs. dist. marked 1/4 S 23 B.T.

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

14

Chain

BOOK 2596

- 49.00 Old road bears NW and SE.
- 53.00 A point 100 lbs. N. of Spring.
- 53.25 Descend abruptly over sandstone bluffs. bear N and S.
- 71.00 Foot of steep descent leave stony land bear NW and SE.
enter rolling sandy land bear NW and SE. desc. gently.
- 74.50 Dry ravine Course NW. ascend gradually
- 80.24 The cor. of secs. 14, 15, 22 and 23, heretofore described.
Land rolling hilly and broken.
Soil sandy and stony 3rd and 4th rate.
Number scattering Cedars.

N 0° 01' W bet. sec 14 and 15

- Ascend gradually N.E. slope over hilly sandy land. through scattering sage and greasewood bush undergrowth and bunch grass.
- 9.50 Dry ravine Course NW and SE. South slope
- 37.00 Top of rocky ridge bear E and W. desc.
- 40.00 Set an iron post: 3ft. long 1 in. in diam. 26 in. in the ground. for $\frac{1}{4}$ sec. cor. marked on brass cap. S 15 on W half and S 14 on E half.
- Dig pits 18x18x12 in. N and S. of post: 3ft. dia. and raise a mound of earth 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high. W. of cor.
- 45.00 Foot of descent. leave hilly stony land bear N.E. and S.W. enter level bottom land bear N.E. and S.W.
- 71.75 The Drain. Work. 70 lbs. wide banks 15 ft. high. Course S.W.
- 80.00 Set an iron post: 3ft. long 2 in. in diam. 24 in. in the ground for cor. of secs. 10, 11, 14, and 15 marked on brass cap T 30 N. S 10 in NW. R 17 E S 11 in NE. S 14 in SE and S 15 in SW. quadrant.
- Dig pits 18x18x12 in. in each. sec. 5 $\frac{1}{2}$ ft. dia. and raise a mound of earth 4 ft. base, 2 ft. high. W. of cor.
- Land level and hilly
- Soil sandy and stony 2nd 3rd and 4th rate
- No timber

N 89° 55' E on a random line bet. sec 11 and 14

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

Column

- 80.16 Intersect. N and S line 2 lks. S. of the cor. of sec. 11, 12, 13
^{heretofore described}
 and 14. ^{Thence} ^{Drum}
 S 84° 54' W. on a true line bet. sec. 11 and 14.
 Over rolling sandy land through sage and greasewood
 brush undergrowth and bunch grass.
 - 33.00 Top of stony ridge head N and S. desc. W. slope.
 - 40.08 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in
 the ground for $\frac{1}{4}$ sec. cor. marked on base cap $\frac{1}{4}$ S
 11 on N. half and S 14 on S. half.
 Raise a mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high. No. of cor
 pits impracticable
 - 43.00 Level rolling land head N.E. and S.W., enter level.
 land head N.E. and S.W.
 - 61.00 The Craik Wash. 75 lks. wide banks 18 ft. high.
 course S.W.
 - 73.13 Dry gulch 50 lks. wide banks 10 ft. high course E.
 - 80.16 This cor. of sec. 10, 11, 14 and 15, heretofore described.
 Land level and rolling
 Soil sandy and a dots 2nd and 3rd rate.
 No timber
- NOTE On this cor. Dec. 27 3° 45' N. on the decl. arc. and
 at 12 h 4^{me} 41^{sec} p.m. l.m.t. observed the sun on the me-
 ridian the resulting latitude being 36° 00' N.
-
- N 0° 01' W bet. sec. 10 and 11
 Over level adobe bottom land along the Craik Wash.
 through sage and greasewood brush and bunch
 grass.
 - 38.00 Level land head N.E. and S.W. ascend. broken
 stony S.E. slope over mountainous 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 base cap $\frac{1}{4}$ S
 10 on W. half and S 11 on E. half.
 Raise a mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high W. of
 cor. pits impracticable
 - 51.00 Top of rocky spur head E and W. desc.
 - 53.00 Dry ravine course E. asc.
 - 58.00 Top of rocky spur head E and W. desc. steeply
 - 63.00 Dry ravine course E. asc.
 - 67.00 Top of spur head E. and W. desc.

16

Chains

BOOK 2596

- 73.00 Dry ravine Course E. and gradually
- 77.00 Begin abrupt ascent. over S.E. slope.
- 79.00 Top of ascent on E. edge of mesa leave mountainous land bears N.E. and S.W., enter rolling sandy 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. 2, 3, 10 and 11 marked on brass cap T. 20 N. 30 in N. 44. R 17 E S 2 in N.E. S 11 in S.E. and S 10 in S.W. quadrant.
Raise a mound of stone 2 ft. base, 1 1/2 ft. high. W. of cor. Pit impracticable
Land level. rolling and mountainous.
Soil sandy adobe and stony 2nd, 3rd, and 4th rate.
No timber.
Mountainous land 4.00 chs.
-
- V 89° 54' E on a random line bet. sec. 2 and 11
- 40.00 Set temp 1/4 sec. cor.
- 80.16 Intersect N and S. line 10 lkw. N. of the cor. of sec. 1, 2, 11 and 12, ^{heretofore described} thence Drive
S 89° 58' W. on a true line bet. sec. 2 and 11.
Over level adobe bottom land along the Oraibi Wash. through sage and greasewood brush undergrowth.
- 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 4 S. 2 on N. half and S 11 on S. half.
Dig pits 18x18x12 ins E and W. of post. 3 ft. dia. and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high N. of cor.
- 58.60 The Oraibi Wash. 100 lbs. wide banks 18 ft. high Course S.W.
- 59.50 Road bears N.E. and W.
- 78.00 Leave level land bears N.E. and S.W., ascend steep rocky E. slope of mesa over mountainous land bears E and W.
- 79.50 Top of 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.
- 80.16 The Cor. of sec. 2, 3, 10 and 11, heretofore described.
Land level rolling and mountainous.
Soil sandy adobe and stony 2nd 3rd and 4th rate
No timber
Mountainous land 1.50 chs.

Chain

17

- 40.00 No 01' W on a random line bet. sec. 2 and 3. Set temp $\frac{1}{4}$ sec. cor.
- 79.88 Intersect N. ldy of Twp. 25 lks. S. 89° 58' W. the cor. of sec. recently estab. by me and described in Exterior Book "U" 2, 3, 34 and 35. Thence S run
- 80° 10' W. on a true line bet. sec. 2 and 3. Over rolling sandy land, through scattering sage brush, undergrowth and bunch grass.
- 25.50 Dry ravine 6 lks. wide 1 ft deep course N.E. ascend gently over N.E. slope.
- 30.50 Road. head E and W.
- 38.00 Top of ridge head E and W. desc. gently.
- 39.00 Begin abrupt descent over sand stone ledged head E and W.
- 39.88 Set an iron post 3 ft long 1 in. in diam. 2 6 in. in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap $\frac{1}{4}$ S 3. on W half and S 2 on E half. Raised mound of stone 2 ft base. 1 1/2 ft high. W of cor. Pits impracticable
- 46.00 Proof of descent in depression head N.E. and S.W., drains to the N.E.
- 70.00 A point 5 lks W. of deserted Hogan.
- 79.88 The cor. of sec. 2, 3, 10, and 11, heretofore described. Land rolling and hilly. Soil sandy and stony 3rd and 4th rate. No timber.

March 30th 1909

March 31st 1909
 At 8^h 00^m a.m. ^{l. mt.} set off. 35° 57' N. on the lat. arc. 4° 05' 1/2' N. on the decl. arc and determine a meridian with the solar at the cor. of sec. 3, 4, 33 and 34 on the S. ldy. of the Twp. recently estab. by me & described in Exterior Book "P"
 Thence S run

No 02' W. bet. sec. 33 and 34.
 Descend N slope over hilly sandy land through scattering sage and greasewood bush undergrowth and bunch grass

- 5.00 Dry ravine 30 lks. wide course N.W. asc.
- 12.00 Top of ridge head N.E. and S.W. desc.
- 17.00 Dry ravine course S.W. head hilly land. head E and W., ascend S. slope of mesa over stony mountainous land. Covered with scattering pinion pine and cedar timber head E and W.
- 27.40 Top of ascent on S. edge of mesa. head mountainous land head E and W., later rolling sandy land head E and W.

Chasin

BOOK 2596

- 36.00 Clear timber from E and W.
- 40.00 Set an iron post 3ft long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap. 4533 on W half and 334 on E half.
- 60.00 Dig pits 18x18x12 ins. N and S of post 3ft dist and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high W of cor.
- 77.50 Top of high sand ridge from N.E. and S.W. desc. over N.W. slope.
- 77.50 North edge of mesa lower rolling sandy land from N.E. and S.W., descend abrupt rocky N. slope of mesa over mountainous land from N.E. and S.W., enter pinion pine and cedar timber from N.E. and S.W.
- 80.00 Set an iron post 3ft long 2 ins. in diam. 24 ins. in the ground for cor. of sec. 27, 28, 33 and 34, marked on brass cap. T30N S 28 in N.W. R17E S 27 in N.E. S 34 in S.E. and S 33 in S.W. quadrant from which.
- A cedar 14 ins. in diam. from $N 68^{\circ} E 175$ lks. dist. marked T30N R17E S 27 B.T.
- A pinion pine 10 ins. in diam. from $S 58^{\circ} E 39$ lks. dist. marked T30N R17E S 34 B.T.
- A pinion pine 10 ins. in diam. from $S 45^{\circ} W 166$ lks. dist. marked T30N R17E S 33 B.T.
- A pinion pine 12 ins. in diam. from $N 73^{\circ} W 163$ lks. dist. marked T30N R17E S 28 B.T.
- Land rolling hilly and mountainous.
Soil sandy and stony 3rd and 4th rate.
Timber pinion pine and cedar
Mountainous land. 1290 chs.

- 40.00 W $89^{\circ} 53' E$ on a random line bet. sec. 27 and 34
Set top $\frac{1}{4}$ sec. cor.
- 80.20 Intersect N. and S line 2 lks. N. of the cor. of sec. 26, 27, 34, and 35 ^{herein before described} fence line
- $S 89^{\circ} 54' W$ on a true line bet. sec. 27 and 34
Descend gradually over N.W. slope, through scattering sage and greasewood bush undergrowth and bunch grass.
- 30.00 Enter scattering cedar timber from N.E. and S.W.
- 40.10 Set an iron post 3ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap $\frac{1}{2}$ S 27 on N. half and S 34 on S half. From which

Chain

A cedar 8 ins. in diam. bears $N 85 \frac{1}{2}^{\circ} E$ 182 lks. dist. marked $\frac{1}{4}$ S 27 B.T.

A cedar 10 ins. in diam. bears $S 79 \frac{3}{4}^{\circ} E$ 164 lks. dist. marked $\frac{1}{4}$ S 34 B.T.

55.00 Wood road bears N. and S. in bottom of depression bears N.W. and S.E. drains to the N.W. side.

65.00 Enter heavy cedar timber bears N. and S.

74.00 Top of ridge bears N. and S. decl.

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

80.20 The cor. of rees. 27, 28, 33 and 34, ^{heretofore} described. Land rolling and mountainous.

Soil sandy and stony 3rd and 4th rate. Pinker pinion pine and cedar. Mountainous land 250 chs.

NOTE At this cor. set off $4^{\circ} 09'$ N. on the decl. arc and at 12^h 04^m pm. sun. line. observe the sun on the meridian. and obtain on the lat. arc a reading of $35^{\circ} 57 \frac{1}{2}' N.$

$N 0^{\circ} 02' W$ bet. rees. 27 and 28.

Descend N.W. slope over mountainous land through pinion pine and cedar timber

0.50 Dry ravine course N.E. and.

9.00 Top of spur bears N.E. and S.W. decl.

27.00 Deep dry ravine course N.W. side. abruptly over stony land.

30.75 Top of ascent on S. edge of mesa bears N. and W. bears mountainous land bears E. and W. enters rolling sandy land bears E. and 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. $\frac{1}{4}$ S 28 on W. half and S 27, on E. half. from which, A pinion pine 12 ins. in diam. bears $N 78 \frac{1}{2}^{\circ} E$ 12 lks. dist. marked $\frac{1}{4}$ S 27 B.T.

A pinion pine 6 ins. in diam. bears $S 46 \frac{3}{4}^{\circ} W$ 140 lks. dist. marked $\frac{1}{4}$ S 28 B.T.

54.50 Wood road bears E. and W.

60.00 Top of ridge bears N.W. and S.E. decl. over N.E. slope

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

BOOK 2596

- 80.00 Set an iron post 3ft. long 2 ins. in diam. 24 ins. in the ground for cor. of sec. 21, 22, 27 and 28 marked on brass cap T₃₀N R₁₇E 321 in N.W. R₁₇E 322 in N.E. S 27 in S.E. and 328 in S.W. quadrant., from which. A pinon pine 6 ins. in diam. bears N₁₈³/₄° E 62 lbs. dist. marked T₃₀N R₁₇E 322 B.T.
A cedar 10 ins. in diam. bears S₂₁° E 91 lbs. dist., marked T₃₀N. R₁₇E 327 B.T.
A pinon pine 10 ins. in diam. bears S₂₅° W 125 lbs. dist. marked T₃₀N R₁₇E 328 B.T.
A pinon pine 8 ins. in diam. bears N₇₇¹/₂° W 115 lbs. dist. marked T₃₀N R₁₇E 321 B.T.
Land rolling and mountainous.
Soil sandy and stony 3rd and 4th rate.
Timber pinon pine and cedar.
-
- 40.00 Set trip¹/₂ sec. cor.
80.22 Intersect N and S. line 3 lbs. S of ^{true point for} the cor. of sec. 22 23, 26 and 27; Thence W run. S₈₉° 54' E on a random line bet. sec. 22 and 27, Over broken stony land. through scattering cedars and pinon pine timber.
20.00 Leave stony land and timber bears N.W. and S.E.
40.11 Set an iron post. 3ft. long 1 in. in diam. 26 ins. in the ground for ¹/₂ sec. cor. marked on brass cap. N₄₅ 22 on N. half and S 27 on S half.
Dig pits 18x18x12 ins. East W. of post 3ft. dist., and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high. M. of cor.
- 50.00 Top of descent in depression bears N.W. and S.E.
Leave broken stony land bears N.W. and S.E., enter mountainous land bears N.W. and S.E. asc. N.E. slope.
- 68.00 Enter pinon pine and cedar timber bears N.W. and S.E.
- 71.00 Top of rocky spur bears N. and E. desc.
- 77.00 Bottom of rocky dry ravine course N.E. asc. steep S.E. slope.
- 79.00 Top of ascent on E. edge of mesa, leave mountainous land bears N.W. and S.E. enter rolling sandy land. bears N.W. and S.E.

Calamus

21

80.22 The cor. of sees 21, 22, 27 and 28, hereinbefore described.
 Land broken hilly and mountainous.
 Soil sandy and stony 3rd and 4th rate.
 Timber pinion pine and cedar.
 Mountainous land 29.00 chs.

March 31st 1909

April 1st ¹⁹⁰⁹ at 2 h 30 m p.m. l.m. l. v. set off 35° 58 1/2' N,
 on the lat. arc 4 3/4' N, on the decl. arc and determine
 a meridian with the solar at the cor. of sees 21, 22,
 27 and 28 ^{hereinbefore described} Thence Drive

N 0° 02' W bet. sees 21 and 22

Drive N slope over rolling sandy mead land through
 scattering pinion pine and cedar timber

0.70 North edge of mead land rolling land bears
 E and W. descent abrupt rocky N. slope over mountainous
 land bears E and W.

1.00 Foot of rock bluff, 30 ft. high, bears E and W. Land
 mountainous and timber bears E and W. enter
 level about bottom land along the Oasbi Wash.

40.00 Set an iron post 3 ft long 1 in. in diam. 26 in. in
 the ground for 1/4 sec. cor. marked on brass cap 4
 321 on W half and 322 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.

45.00 The dry bed of the Oasbi Wash. 100 lbs. wide
 banks 20 ft. high. Course S.W.

57.00 Dry wash. 25 lbs. wide 8 ft. deep. Course S.W.

80.00 Set an iron post 3 ft. long 2 ins. in diam. 24 ins.
 in the ground for cor. of sees 15, 16, 21 and 22
 marked on brass cap T 30 N S 16 in T.W., R 17 E

315 in N.E 322 in S.E and 321 in S.W. quadrant
 Dig pits 18 x 18 x 12 ins. in each see 5 1/2 ft. dist and
 raise a mound of earth 4 ft. base 2 ft. high.
 W. of cor.

Land level rolling and mountainous
 Soil sandy and stony 3rd and 4th rate.
 Timber pinion pine and cedar.
 Mountainous land 030 chs.

BOOK 2596

- 40.00 NW 1/4 Sec 15 and 22
Set temp 1/4 sec. cor.
- 80.10 Intersect Mand Blue 3 lks. N. of the cor. of sec. 14 15 -
^{heretofore described}
22 and 23 ^{Three Drum}
- 89 54' W. out of true line bet. sec. 15 and 22
Ascend N.E. slope over hilly sandy land, through
scattering sage brush undergrowth.
- 5.50 Dry ravine 40 lks. wide 10 ft. deep trend N.E.
- 18.00 Top of high ridge trend N.W. and S.E. desc. S.W. slope
- 28.00 Foot of descent, leave hilly land trend N.E. and
S.W. enter level adobe bottom land trend N.E.
and S.W.
- 40.05 The point for the 1/4 sec cor falls in the edge of the
Oraibi Wash. where natural cause would mean
the destruction of a corner. therefore @
- 38.00 Set all wire post 3 ft long 1 in. diam. 26 ins. in
the ground for Whites Cor. to the 1/4 sec. cor. marked
on brass cap T 30 N R 17 E S 15 on N half. S 22 on S half
and W. C 1/4 on W half.
Dig pits 18x18x12 ins each W of post. 3 ft. dist. and
raise a mound of earth 3 1/2 ft. tall, 1 1/2 ft. high.
N. of cor.
- 39.00 The Oraibi Wash. 125 lks. wide, banks 20 ft. high.
Course S.W.
- 80.10 The Cor. of sec. 15, 16, 21, and 22, heretofore described.
Land level and hilly.
Soil sandy and adobe 3rd rate.
No timber.

April 1st 1909

- ¹⁹⁰⁹
April 3rd At 7 1/2 30 am. Local True Off. 35° 59' N.
on the lat arc. 5° 15' N. on the decl. arc and
determine a meridian with the solar at the
Cor. Secs 15, 16, 21, and 22 ^{heretofore described}
^{Three Drum}
- N 0° 02' W. bet. sec. 15 and 16
Over level sandy and adobe bottom land through
sage and greasewood bush undergrowth and
bunch grass.
- 7.00 Wood road trend N.E. and S.W.
- 30.00 Dry ravine course S.E. Leave level land trend N.W.
and S.E. Ascend S.W. slope over hilly land trend
N.W. and S.E.

Behavii

- 31.00 Level hilly land bear N.E. and S.W. ascend. S.E. slope over broken stony mountainous land bear N.E. and S.W.
- 40.00 Set an iron post 3ft long 1 in. in diam. 26 ins. in the ground for 4 sec. cor. marked on bears Cop. 4816 on W half and 815 on E half. Place a mound of stone 2ft base, 1 1/2 ft high to W. of cor. Pits impracticable
- 52.00 Top of rocky spur bear E. and W., enter scattering pine and cedar timber bear. E and W. Desc. N. slope
- 61.00 Any ravine course N.E. arc.
- 63.00 Top of spur bear N.E. and S.W. desc.
- 77.00 Foot of steep rocky descent. Leave mountainous land bear N.W. and S.E., enter rolling land bear N.W. and S.E.
- 80.00 Set an iron post 3ft long 2 ins. in diam. 24 ins. in the ground for cor. of sec. 9, 10, 15 and 16 marked on bears Cop. T30N 89 in N.W. R17 E 8 10 in N.E. 815 in S.E. and 816 in S.W. quadrant from which.
- A pine 12 ins. in diam. bear N 55 1/2° E 102 lbs. dist, marked T30N R17E S10 B.T.
- A pine 10 ins. in diam. bear S 13 3/4° E 353 lbs. dist, marked T30N R17E S15 B.T.
- A cedar 10 ins. in diam. bear S 86° W 92 lbs. dist, marked T30N R17E S16 B.T.
- No. other trees available.
- Dig pit 36 x 36 x 12 ins 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 level rolling and mountainous, Soil sandy and stony 3rd and 4th rate. Timber pine and cedar.
- Mountainous land 46.00 chs.
-
- 40.00 Set trap to sec. cor.
- 80.18 Intersect N and S line 3 lbs N of cor. of sec. 10. 11. 14 and 15 ^{herein before described} Hence from
- S 89° 55' W. and true line bet. sec. 10 and 15

BOOK 2596

- Over level sandy land through sage and
greenwood brush and bunch grass.
- 17.00 Wood road bears N.E. and S.W.
- 40.00 Level land bears N.E. and S.W., ascend.
N.E. slope over stony hilly land.
- 40.09 Set an iron post 3 ft. long 1 in. in diam. 26 ins.
in the ground for $\frac{1}{4}$ sec. cor. marked on brass
cap $\frac{1}{4}$ S 100 on N. half, and S 15 on S half.
Raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high,
N. of cor. Pits impracticable.
- 42.00 Top of rocky ridge bears N. and S. due.
- 46.00 Foot of descent, level stony land bears N.W.
and S.E. enter level sandy land bears N.W.
and S.E.
- 73.00 Level land bears N.W. and S.E. asc.
N.E. slope over rolling land bears N.W. and
S.E.
- 73.50 Dry ravine 20 lbs. wide 3 ft. deep course S.E. and
- 74.00 Enter scattering pinon pine and cedar
timber bears N.W. and S.E.
- 80.18 The cor. of sec 9, 10, 15 and 16, heretofore described.
Land level rolling and hilly.
Soil sandy and stony 3rd and 4th rate.
Timber pinon pine and cedar.

N $0^{\circ}02'W$ bet. sec 9 and 10.

Descend N.E. slope over hilly and rolling sandy
land through scattering pinon pine and cedar
timber and sage brush undergrowth.

5.00 Cross timber bears N.W. and S.E.

6.50 Dry sand wash. course E.

20.00 Dry sand wash. 15 lbs wide 2 ft. deep course ^{ascend} S.E.

37.00 Enter pinon pine and cedar 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 brass cap. $\frac{1}{4}$ S.
9 on W half and S 10 on E half, from which
a cedar 8 ins. in diam. bears S 72° E 320 lbs.
dist. marked $\frac{1}{4}$ S 10 B.T.

A cedar 6 ins. in diam. bears S 50° W 158 lbs. dist.
marked $\frac{1}{4}$ S 9 B.T.

41.00 Level hilly land bears N.W. and S.E. Ascend, abrupt rocky. S.W. slope over mountainous land bears N.W. and S.E.

42.50 Top of abrupt rocky ascent at S. edge of mesa bears East W., level mountainous land bears East W., enter rolling sandy land bears East W.

45.00 Top of sand ridges bears East W. desc. middle

50.50 Foot of descent in rocky ravine course W. asc.

80.00 See 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 bear cap T30 N. 34 in N.W., R17 E 33 in N.E., S10 in S.E. and S 9 in S.W. quadrants from which.

A cedar 8 ins. in diam bears S60 3/4° E 421 lbs dist marked T30 N. R17 E S10 B.T.

A cedar 5 ins. in diam, bears S61° W 175 lbs. dist, marked T30 N R17 E S 9 B.T.

A cedar 10 ins. in diam, bears N73° W 347 lbs. dist marked T30 N. R17 E S4 B.T. No other trees available

Dig pit 36x36x12 ins in sec. 3 8 ft. dist, and raised mound of earth 4 ft. base 2 ft. high. W. of cor.

Land rolling hilly and mountainous.

Soil sandy and stony 3rd and 4th rate.

Timber pines, firs and cedar

mountainous land 1.50 lbs.

NOTE On this cor. set off 5° 18' N. on the decl arc. and at 12th 3^m 28^{sec} p.m. l.m.t. observe the sun on the meridian the resulting latitude being 36° 01' N.

40.00 See top of sec. cor.

80.10 Intersect N and S. line, 12 lbs N. of the cor. of sec. 2, 3, 10 and 11, ^{hereinbefore described} (Shenell) Run

West on a true line bet. sec. 3 and 10.

Ascend SE. slope over hilly sandy and stony land through sage and greewood brush undergrowth and bunch grass.

40.05 See an iron post 3 ft. long 1 in, in diam. 26 ins. in the ground for 4 sec. cor. marked on bear cap. 4 S 30 N. half and S10 on S half.

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

46.00 Enter pines, firs and cedar timber bears N and S.

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

80.10 This cor. of sec. 3, 4, 9 and 10, hereinbefore described.

Land hilly.

BOOK 2596

Soil sandy and stony 3rd and 4th rates.
Timber pinon pine and cedar.

- 110.00 No 02 W. on a random line bet. sec. 3 and 4
Set temp 1/4 sec. cor.
- 79.98 Intersect N. bdy. of Np. 21 lks. 589:58' W of the cor. of sec. 3, 4, 33
and 34 ^{recently established by me & described in Exterior Book "U"}
_{Three of run}
- 5.00 No 07 W. on a true line bet. sec. 3 and 4
Ascend gradually over N. slope, over hilly sandy land
through sage and greasewood bush undergrowth and bunch grass.
- 15.00 Enter scattering pinon pine and cedar timber bears NW and S.E.
- 37.25 Top of stony ridge bears E and W. desc S. slope.
- 39.98 Wood road bears E and W.
Set an iron post, 3 ft. long 1 in. in diam, 26 ins. in the ground
for 1/4 sec. cor. marked on bears Cop 4 34 on W half and S 30 on
E half. from which.
A cedar 6 ins. in diam. bears N 73° E 179 lks. dist. marked
1/4 S 3 B.T.
A pinon pine 12 ins. in diam bears S 29 1/2° W 338 lks.
dist. marked 1/4 S 4 B.T.
- 63.50 Dry ravine course S.W. asc
- 19.98 True cor. of sec. 3, 4, 9 and 10, heretofore described.
Land hilly.
Soil sandy 3rd rate.
Timber Pinon pine and cedar.

April 3rd 1909

This 1st day of April 1909. I change the duties of
Jay E. Jellick from those of Chairman to those of
Plagman. those of Chas L. Shanway, from those of
Assman to those of Chairman. and those of Arthur A
Beard from those of Chairman to those of Assman.
No officers authorized to administer oaths, other
than myself, being available, without great
inconvenience, delay and expense, I administer
the required preliminary and final oaths
Sidney C. Bluck
U.S. Examiner of Surveys

April 1st 1909
at 7^h 00^m a.m. l.m. I set off. 35° 57' N. on the
lat. arc. 4° 28 1/2' N. on the decl. arc and determined
a meridian with the solar, at the cor. of sec. 3, 4

Chain

532 and 33 on the S. side of the N. recently estab. by me
 and described in Exterior Book "P"

No 03 W. bet. 1103 32 and 33.

Ascend S.W. slope over stony hilly land through scattering sage
 and greasewood brush undergrowth and bunch grass

4.00 Leave hilly land bears N.W. and S.E. enter mountainous land
 bears N.W. and S.E.

10.00 Top of rocky spur bears N.E. and S.W. desc.

21.00 Bottom of dry stony ravine course S.W. asc.

27.00 Top of rocky spur bears E and W. desc.

35.00 Leave stony land bears N.W. and S.E. enter sandy land bears
 N.W. and S.E.

38.50 Dry ravine course S.W. leave mountainous land bears N.E.
 and S.W., enter hilly land bears N.E. and S.W. asc. 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. $\frac{1}{4}$ 332 on W half
 and 333 on E half.

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

57.50 Dry ravine 10 lbs wide 1 ft. deep course W. asc.

66.00 Top of stony ridge bears E and W. desc.

72.00 Leave hilly land bears N.E. and S.W. enter level land.
 bears N.E. and S.W.

80.00 Set an iron post 3 ft. long 2 in. in diam. 24 ins. in the
 ground for cor. of secs. 28, 29, 32 and 33. marked on brass
 cap. T 30 N. S 29 in N.W. T 17 E S 28 in N.E. S 33 in S.E. and
 S 32 in S.W. quadrants.

Dig pits 18x18x12 ins. in each sec. 5 $\frac{1}{2}$ ft. dirt 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.

No timber

Mountainous land 34.50 chs.

N 89° 53' E on a random line bet. secs. 28 and 33

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

80.14 Intersect N and S. line 14 lbs. N. of the cor. of secs. 27,
 28, 33 and 34 ^{here before described} ~~here before described~~
~~here before described~~ ~~here before described~~

S 89° 59' W. on a true line bet. secs. 28 and 33.

Desc. N.W. slope over stony mountainous land through
 scattering pine and cedar timber

0.75 Dry ravine course N.E. asc. spur.

BOOK 2596

- 1.25' Begin abrupt ascent over sand stone cliffs.
- 3.50 Top of cliffs on E edge of mesa bears NW and SE. Leave stony mountainous land bears NW and SE. enter rolling sandy mesa land bears NW and SE. asc. gradually.
- 15.00 Top of ridge bears N and S. desc.
- 25.00 Dry canal course N. asc.
- 37.00 Top of high ridge bears N and S. desc.
- 40.07 Set an iron post. 3ft. long 1 in. in diam. 26 ins in the ground for $\frac{1}{4}$ sec. cor. marked as bears cap $\frac{1}{4}$ S 28 on N. half and S 33 on S half. from which.
- Copious pine 6 ins. in diam. bears N 37° W 280 lbs. dist. marked $\frac{1}{4}$ S 28 B.T.
- No other trees available.
- Dig pits 18x18x12 ins E and W of post. 3ft. dist. and raise a mound of earth $3\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high. N. of cor.
- 66.90 West edge of mesa bears NE and SW. Leave rolling sandy land bears NE and SW. enter stony mountainous land bears NE and SW. descend abruptly over W. slope.
- 72.00 Top of abrupt rocky descent. Leave mountainous land bears NE and SW., enter level sandy land bears NE and SW., Leave timber bears NE and SW.
- 80.14 The cor. of sec. 28, 29, 32 and 33, heretofore described. Sand level, rolling and mountainous. Soil sandy adobe, and stony 2nd 3rd and 4th rate. Timber pinion pine and cedar. Mountainous land. 8.60 chs.
- NOTE At this cor. set off. 4° 32' N. with the decl. arc and at 12^h 04^m pm can't observe the sun on the meridian the resulting lat. being 35° 57' $\frac{1}{2}$ N.
- N 0° 03' W bet. sec 28 and 29, over level sandy and adobe land, through sage and greasewood brush undergrowth and bunch grass.
- 40.00 Set an iron post. 3ft. long, 1 in in diam. 26 ins in the ground. for $\frac{1}{4}$ sec. cor. marked as bears cap $\frac{1}{4}$ S 29 on W half and S 28 on E. half.
- Dig pits 18x18x12 ins N and S. of post. 3ft. dist. and raise a mound of earth $3\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high. W of cor.
- 60.00 The Crater W. ash. (dy) 125 lbs. wide, banks 25 ft. high. course S.W.

Chain

80.00

Set an iron post 3 ft. long 2 ins. in diam. 24 ins. in the ground for cor. of secs. 20, 21, 28 and 29, marked on brass cap T 30 N S 20 in N.W. R 17 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 ft. high. W. of cor.

Land level.

Soil sandy and adobe. 2nd and 3rd rate.

No timber.

40.00

N 89° 59' E on a random line bet. Secs 21 and 28.

Set temp 1/4 sec. cor.

80.14

Intersect N and S line 5 lks. S of the cor. of secs. 21, 22, 27, and 28, ^{heretofore described} Mineral Creek

S 89° 57' W. on a true line bet. secs 21 and 28.

Due W slope of steep and stony mountainous land, through scattering pinon pine and cedar timber

1,50

Dry ravine course N. around.

15.00

Leaves timber bears N.E. and S.W.

31.00

Top of ascent, on steep bears N.E. and S.W. descend abruptly over N.W. slope.

33.00

Foot of steep descent, leaves mountainous land bears N.E. and S.W. enter rolling land bears N.E. and S.W.

40.07

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. N 321 on N half and S 28 on S half.

Dig pits 18 x 18 x 12 ins E and W of post. 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.

42.00

Leaves rolling land bears N.E. and S.W. descend SW slope over hilly land bears N.E. and S.W.

50.00

Foot of descent, leaves hilly land bears N.E. and S.W. enter level adobe bottom land bears N.E. and S.W.

73.00

The Orabi Wash. 100 lks. wide banks, 20 ft high. Course S.W.

80.14

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

Land level rolling hilly and mountainous.

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

Timber pinon pine and cedar

Mountainous land. 33.00 chs.

April 1st 1909

BOOK 2596

April 5th ¹⁹⁰⁹ Ob. 7^h 30^m a.m. Lmt. S. sec. 17. 35° 58' 1/2" N.
on the lat. arc 6° 00' 1/2" N. on the decl. arc and
determine a meridian with the solar at the
cor. of sec. 20 21 28 and 29¹ ^{heretofore described.} ~~Thence~~ run
N 0° 03' W bet. sec 20 and 21

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

30.00 Wood road bears N.E. and S.W.

37.50 Same road bears N.W. and S.E.

40.00 Set an iron post 3 ft long 1 in. in diam. 26 in. in
the ground for 1/4 sec. cor. marked on brass cap.
1/2" S 20 on W. half and 3 21 on E. half.

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

41.00 Same road bears N.E. and S.W.

57.00 Same road bears N.W. and S.E.

66.50 Dry ranine 15 lbs. wide 2 ft. deep course S.E.

80.00 Set an iron post 3 ft. long 2 in. in diam. 24 in.
in the ground for cor. of sec. 16, 17 20 and 21
marked on brass cap T 30 N S 17 in. N.W. R 17 E.
3 16 in N.E. 3 21 in S.E. and 3 20 in S.W. quadrants.

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

Soil sandy and adobe 2nd and 3rd rate.
No timber.

N 89° 57' E on a random line bet. sec. 16 and 21

40.00 Set temp. 1/4 sec. Cor.

80.08 Intersect N and S line at the cor. of sec. 15, 16 21
and 22¹ ^{heretofore described} ~~Thence~~ run

S 89° 57' W on a true line bet. sec. 16 and 21.

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

8.00 Wood road bears N.E. and S.W.

18.00 Over level land bears N.E. and S.W., enter mountainous
land bears N.E. and S.W., ascend abrupt rocky E.
slopes of mesa

Chain

- 25.80 Top of abrupt descent on E. edge of mesa. Leave mountainous land bears N.E. and S.W., enter rolling sandy mesa land and scattering juniper pine and cedar timber bears N.E. and S.W., ascend gently
- 40.04 Set an iron post 3ft. long 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on brass exp. $\frac{1}{4}$ S16 on N. half and S21 on S half., from which. A cedar 6 ins. in diam. bears S31°W 124 lbs. dist. marked $\frac{1}{4}$ S21 B.T.
No other trees available.
Pair of a mound of stone 2ft. base 1 1/2ft. high N. of cor. Pits impracticable.
- 47.00 Top of ridge bears N.E. and S.W. desc. N.W. slope.
- 52.50 Wood road bears N.W. and S.E.
- 67.00 West edge of mesa leave rolling sandy land bears N.W. and S.E., enter mountainous land bears N.W. and S.E. descend abruptly over S.W. slope of mesa
- 72.00 Foot of abrupt descent. Leave mountainous land and timber bears N.W. and S.E. enter level sandy land bears N.W. and S.E.
- 80.08 Top cor. of sec. 16 17 20 and 21, heretofore described. Land level rolling and mountainous. Soil sandy adobe and stony 2nd 3rd and 4th rate. Timber juniper pine and cedar
Mountainous land 1280 chs.,

- N10°03' W. 1/2 sec. 16 and 17.
Ascend S.W. slope over rolling sandy land through sage and greasewood brush undergrowth and bunch grass
- 22.00 Enter scattering juniper pine and cedar timber bears N.W. and S.E.
- 30.00 Enter stony land bears N.W. and S.E.
- 32.00 Wood road bears E and W.
- 35.00 Dry round 6 lbs. wide 3ft. deep corner S.W.
- 40.00 Set an iron post 3ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on brass exp. $\frac{1}{4}$ S17 on W half and S16 on E half., from which. A cedar 12 ins. in diam. bears S58 $\frac{3}{4}$ °E 183 lbs. dist. marked. $\frac{1}{4}$ S.16 B.T.
A cedar 8 ins. in diam. bears N78 $\frac{3}{4}$ °W 132 lbs. dist. marked $\frac{1}{4}$ S17 B.T.

BOOK 2596

52.00 Leave rolling sandy and stony land at foot of mixed
beams N.W. and S.E., enter mountainous land
beams N.W. and S.E., ascend abruptly over SW slope.

55.80 Top of steep ascent beams N.W. and S.E., leave mountainous
land beams N.W. and S.E. enter hilly land beams
N.W. and S.E.

59.50 A point 100 lks. E of Indian hogan.

62.50 A point 100 lks W of Indian hogan.

64.00 Top of ridge beams N.E. and S.W. desc. NW slope.

69.00 Wood road beams N.W. and S.E.

80.00 Set an iron pin 3ft. long 2 ins. in diam. 2 1/2 ins.
in the ground for cor. of sec. 8, 9, 16 and 17 marked
on Brass Cap T30N R17E 88 in N.W. 89 in N.E. 816
in S.E. and 817 in S.W. quadrant, from which.

A cedar 14 ins. in diam. beams N62 1/2° E 89 lks. dist.
marked T30N R17E 89 B.T.

A pinion pine 8 ins. in diam. beams S57 1/4° E 136 lks.
dist. marked T30N R17E 816 B.T.

A cedar 4 ins. in diam. beams S11 1/4° W 64 lks. dist.
marked T30N R17E 817 B.T. and

A cedar 8 ins. in diam. beams N21° W 44 lks. dist.
marked T30N R17E 88 B.T.

Land rolling hilly and mountainous.

Soil sandy and stony 3rd and 4th rate

Timber pinion pine and cedar

Mountainous land. 380 chs.

NOTE At this cord set off 6° 04' N. on the decl. arc and at 12th
3rd p.m. limit observe the sun on the meridian, and
obtain on the lab. arc a reading of 36° 00' N.

N89° 57' E on a random line bet. sec. 9 and 16.

140.00 Set temp. 1/4 sec. cor.

80.12 Distance N and S line 12 lks. S of the cor. of sec. 9, 10
15 and 16 ^{heretofore described} three runs

S89° 52' W. on a true line bet. sec. 9 and 16.

Ascend NE slope over hilly sandy land, through scattering
pinion pine and cedar timber and scattering sage brush
undergrowth.

80.00 Top of rocky spur beams N. and S. desc.

16.00 Dry ravine course N. asc.

17.00 Top of sand spur beams N and S. desc.

Chassis

- 19.00 Dry ravine Course N.E. are.
- 22.00 Leave hilly land head N.W. and S.E. ascend abruptly over stony mountainous land head N.W. and S.E.
- 24.60 Top of abrupt ascent on E edge of mead, leave mountainous land head N.W. and S.E., enter hilly sandy mesa land head N.W. and S.E.
- 40.06 Set an iron post 3ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap. $\frac{1}{4}$ S 9 on N. half and S 16 on S half., from which.
A cedar 14 ins. in diam. head N 57° E 50 lks. dist marked $\frac{1}{4}$ S 9 B.T.
- A pinion pine 6 ins. in diam. head S 27 $\frac{3}{4}$ W 83 lks. dist marked $\frac{1}{4}$ S 16 B.T.
- 47.50 Top of sand stone ledge 15 ft. high head N and S.
- 58.00 Top of sand stone ledge 15 ft. high head N and S
- 70.00 Top of ledge head N and S. descend steep W slope.
- 74.00 Foot of steep descent desc. gradually.
- 80.12 The cor. of sec. 8, 9, 16 and 17, heretofore described.
Land hilly and mountainous.
Soil sandy and stony 3rd and 4th rate.
Timber pinion pine and cedar
Mountainous land. 260 chs.

- N 0° 03' W. bet. sec. 8 and 9,
descend N.W. slope over hilly sandy land through scattering pinon pine and cedar timber and scattering sage brush undergrowth.
- 3.00 Dry ravine 10 lks. wide 3ft deep course S.W.
 - 11.50 Dry ravine 15 lks. wide 3ft deep course S.W.
 - 21.00 Dry ravine 10 lks. wide 3ft deep course S.W.
 - 34.00 Dry ravine 8 lks. wide 2ft deep course S.W.
 - 40.00 Set an iron post 3ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap. $\frac{1}{4}$ S 8 on W half and S 9 on E. half. from which.
A cedar 4 ins. in diam. head N 36 $\frac{1}{2}$ E. 63 lks. dist. marked $\frac{1}{4}$ S 9 B.T.
A cedar 12 ins. in diam. head S 74 $\frac{1}{2}$ W 112 lks. dist. marked $\frac{1}{4}$ S 8 B.T.
 - 41.00 Dry ravine course S.W. are. gradually.
 - 41.50 Leave hilly land head N.W. and S.E. enter stony mountainous land head N.W. and S.E. ascend abruptly

BOOK 2596

- over S. slope
- 43.00 Top of abrupt rocky crests on S. edge of mesa, level mountainous land bears E and W. enter rolling sandy mesa land bears E and W.
- 46.50 Wood road bears E and W.
- 54.50 North edge of mesa level rolling sandy mesa land bears NW and S.E. enter stony mountainous land bears NW and S.E. descend abruptly over NE slope
- 56.00 Top of abrupt descent. level stony mountainous land bears NW and S.E. enter rolling sandy land. bears NW and S.E.
- 59.00 Level timber 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. 4, 5, 8 and 9. marked on base cap T 80 N 35 in NW. R17 E 34 in N.E. 39 in S.E. and 38 in S.W. quadrant.
- Dig pits 18 x 18 x 12 ins. in each sec. 5 1/2 ft. dia. and raise a mound of earth 4 ft. base 3 ft. high. W. of cor.
- Land hilly rolling and mountainous.
- Soil sandy and stony 3rd and 4th rate.
- Timber pinon pine and Cedar.
- mountainous land. 3.00 chs.
-
- 40.00 Set temp 1/4 sec. cor.
- 80.06 Intersect N and S - line 5 lbs S of the cor. of sec. 3, 4, 9 and 10. ^{hereinbefore described} fence line
- S 89° 50' W on a true line bet. sec. 4 and 9
- Descend SW slope over hilly sandy land through scattering sage and greasewood brush undergrowth and bunch grass and Cedar timber
- 8.00 Dry ravine course S. asc
- 12.00 Top of rocky spire bears N and S due.
- 17.00 Level timber bears NW and S.E.
- 39.00 Dry ravine course S.E. ascend. N.E. slope
- 40.03 Set an iron post. 3 ft. long 1 in. in diam. 26 ins. in the ground for 1/4 sec. cor. marked on base cap. 34 on N half and 39 on S half.
- Dig pits 18 x 18 x 12 ins E and W of post. 3 ft. dia. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high. N. of cor.

Chavis

80.06 The Cor. of sec. 4, 5, 8 and 9, heretofore described.
Land hilly.
Soil sandy and stony 3rd and 4th rate.
Timber Cedar.

April 5th 1909

1909
April 7th At 1^h 30^m p.m. Com. Dist. off. 36° 01' N. on
the lat. arc and 6° 50 1/2' N. on the decl. arc. and determine
a meridian with the solar on the cor. of sec. 4, 5,
8 and 9, ~~heretofore described~~ ^{Thence} Drum

40.00 No° 03' W. on a random line bet. sec. 4 and 5 -
Set temp. 1/4 sec. cor.

80.14 Distance N. by of Np. 18 lks 5.89° 58' W. of the Cor. of sec.
4, 5, 32 and 33, recently estab. by me & described in Exterior
Book "U"
Thence Drum

So° 05' W. on a true line bet. sec. 4 and 5 -
Descend S.W. slope over hilly land, through scattering
pinon pine and cedar timber, and bunch grass

19.50 Wood road head N.W. and S.E.

35.00 A point 200 lks. W. of Indian Hogan.

38.00 Leave hilly land head E and W. enter stony mountainous
land head E and W. descend abrupt S. slope of
mesa.

40.14 Set an iron post 2 ft long 1 in. in diam, 26 ins. in the
ground for 1/4 sec. cor. marked on brass cap 1/4 S 5 on
W. half and 3/4 on E half. from which.

A pinon pine 18 ins. in diam head S 28 1/4° E 355 lks.
dist marked 1/4 S 4 B.T.

A pinon pine 12 ins. in diam. head S 40 1/2° W 214
lks. dist. marked 1/4 S 5 B.T.

44.00 Descend sand stone ledge 15 ft. high head E and W.
Leave timber head E and W.

47.00 Foot of abrupt rocky descent. Leave mountainous
land head E and W. enter rolling hilly land
head E and W. descend gradually

62.76 Dry ravine course S.E. ascend N.E. slope

80.14 The Cor. of sec. 4, 5, 8 and 9, heretofore described.
Land rolling hilly and mountainous.

Soil sandy and stony 3rd and 4th rate.
Timber pinon pine and cedar.
Mountainous land. 9/4 lks.

April 7th 1909

BOOK 2596

- April 2nd 1909 Ab. 7^h 30^m a.m. L. and D. reb.
 off $35^{\circ} 57'$ N. on the lat. arc and $4^{\circ} 51\frac{1}{2}'$ N. on the
 decl. arc and determine a meridian with the
 solar ab. the true point for cor. of sec. 5, 6, 31 and
 32. on the S. side of the N.P. ^{W.C. to cor. 2.00 chs. $58^{\circ} 53' W.$ recently} estab. by me & described in Exterior Book "P"
 Thence D run, from true point for cor.
 $N 0^{\circ} 03' W.$ lat. sec 31 and 32
 On the Craib Wash. Course S.
 17.00 Leave the Craib Wash. Course from N.E. Enter level
 adobe and sandy bottom land. Covered with sage
 and greasewood brush undergrowth.
 38.00 Road to Craib. Any head N.E. and S.W.
 40.00 Set an iron post. 3ft. long 1 in. in diam. 26 in. in
 the ground for $\frac{1}{4}$ sec. cor. marked on bears Cap '14
 S 31 on W. half and S 32 on E half.
 Dig pits 18x18x12 in. N and S of post. 3ft. dist.
 and raise a mound of earth 4 ft. base. 2 ft. high,
 W. of cor.
 59.00 Leave level land head N.E. and S.W., enter
 mountainous land head N.E. and S.W. ascend
 abrupt rocky S. slope of mesa.
 62.00 Top of abrupt rocky ascent. on S. edge of mesa
 leave mountainous land head E. and W., enter
 rolling sandy mesa land. head E. and W.
 80.00 Set an iron post. 3ft. long 2 in. in diam. 24 in.
 in the ground for cor., of sec. 29, 30, 31, and 32,
 marked on bears Cap T 30 N., S 30 in NW. R 17 E. S 29
 in N.E. S 32 in S.E. and S 31 in S.W. quadrant.
 Raise a mound of earth and stone 2 ft. base $1\frac{1}{2}$ ft. high
 W. of cor. Pits impracticable
 Land level rolling and mountainous.
 Soil sandy adobe and stony 2nd 3rd and 4th rate.
 No timber
 Mountainous land. 3.00 chs.
- $N 89^{\circ} 53' E$ on a random line lat. sec. 29 and 32
 40.00 Set $\frac{1}{4}$ sec. Cor.
 80.20 Intersect N and S. line 12 chs. N. of the cor. of sec.
 28, 29, 32 and 33, hereinbefore described,
 Thence D run
 $S 89^{\circ} 58' W.$ on a true line lat. sec. 29 and 32.
 Cross level sandy and adobe land through sage and

Chains

- 29.50 greasewood brush undergrowth and bunch grass. The Craib Wash. Colks, wide banks. 20 ft. high Course S.W.
 - 40.10 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for 1/4 sec. cor. marked on bears cap. 4 S 29 on N. half and 332 on S half. Dig pit 18 X 18 X 12 ins. E and W. of post 3 ft. dist. and raise a mound of earth 3 1/2 ft. long, 1 1/2 ft. high. N. of cor.
 - 43.00 Prod to Craib Orig bears N.E and S.W.
 - 45.00 Bears level land bears N.E. and S.W. enter hilly land bears N.E. and S.W. ascend gradually over S.E. slope of mesa.
 - 56.00 Bears hilly land bears N.E and S.W., enter stony mountainous land bears N.E and S.W. ascend abruptly.
 - 61.30 Top of abrupt ascent on E. edge of mesa bears N.E. and S.W. bears mountainous land bears N.E and S.W. enter rolling sandy land bears N.E and S.W.
 - 73.00 Top of sand ridge bears N.E. and S.W. desc. gently.
 - 80.20 The cor. of sec. 29, 30, 31 and 32, heretofore described. Level level rolling hilly and mountainous. Soil sandy adobe and stony 2nd 3rd and 4th rate. No timber
-
- Mountainous land 5.30 chs.
- 40.00 S 89° 53' W. on a random line bet. sec 30 and 31 Set temp 1/4 sec.
 - 79.86 Intersect 4th Guide Meridian Cor. 8 lbs S. of the cor of sec. 25 30, 31 and 36, recently estab. by me & described in Standard Book "B" Three Drums
 - On 89° 56' E on a true line bet. sec. 30 and 31. Over hilly sandy mesa land through scattering piñon pine and cedar timber.
 - 2.00 Beg. in gradual descent over N.E. slope.
 - 26.49 Bears hilly land bears N.W. and S.E., descend abruptly over stony mountainous land bears N.W. and S.E.
 - 30.00 Foot of abrupt rocky descent, bears mountainous land and timber bears N.W. and S.E. enter hilly land bears N.W. and S.E.
 - 39.86 Dry ravine 20 lbs wide 3 ft deep course N.E. Set an iron post 3 ft long 1 in. in diam. 26 ins in

BOOK 2596

- the ground for $\frac{1}{4}$ sec. cor. marked on brass cap $\frac{1}{4}$ 330 on W. half and 331 on S. half.
- Dig pits 18 X 18 X 12 ins. East W. of post 3 ft. dia., and raise a mound of earth $3\frac{1}{2}$ ft. base 11 ft. high N. of cor.
- 41.90 Wood road bears N.W. and S.E.
- 46.50 Dry wash course S.E., asc. S.W. slope.
- 53.00 Level hilly sandy land bears N.W. and S.E., enter stony mountainous land and scattering cedar timber bears N.W. and S.E. ascend abruptly over cliffs
- 55.20 Top of cliffs on W. edge of mesa level mountainous land and timber bears N.W. and S.E., enter rolling sandy land bears N.W. and S.E.
- 79.86 The cor. of sec. 29, 30, 31 and 32, heretofore described. Land rolling hilly and mountainous. Soil sandy and stony 3rd and 4th rate. Timber piñon pine and cedar mountainous land. 571 Chs.
-
- N 0° 03' W. bet. sec. 29 and 30.
- Over rolling sandy mesa land, through bachel. grass
- 30.50 Level sandy land bears N.E. and S.W. enter stony land and scattering piñon pine and cedar timber bears N.E. and S.W.
- 35.00 Top of ridge bears N.E. and S.W. desc. N.W. slope.
- 40.00 Iron iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ 330 on W. half and 339 on E. half from which
- A cedar 12 ins. in diam. bears S 20° E 170 lbs. dia., marked $\frac{1}{4}$ S 29 B.T.
- A piñon pine 10 ins. in diam. bears N 83 $\frac{1}{2}$ ° W 155 lbs. dia. marked $\frac{1}{4}$ S 30 B.T.
- 43.00 Dry gulch course E. asc.
- 50.00 Top of ridge bears E and W. desc.
- 54.00 Sand stone ledge bears E and W. desc. abruptly
- 64.00 North edge of mesa. Level rolling sand bears N.E. and S.W. desc. abrupt. N.W. slope and stony mountainous land bears N.E. and S.W.
- 67.00 Top of abrupt desc. level mountainous land.

Chain

39

and timber bears N.E. and S.W., enter rolling sandy 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. 19, 20, 29 and 30. marked on brass cap T 30 N S 19 in N.W. R 17 E S 20 in N.E. S 29 in S.E. and S 30 in S.W. quadrant. Dig pits 18x18x12 ins. in each sec. 5 1/2 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high. W of cor.

Land rolling hilly and mountainous. Soil sandy and stony 3rd and 4th rate. Timber pinon pine and Cedars. Mountainous land. 3.00 chs

40.00 W 89° 58' E on a level line bet. sec. 20 and 29. Set trap to sec. cor.

80.06 Distinct N and S. line 14 lks. S of the cor. of sec. 20, 21, 28 and 29, heretofore described.

Thence down

S 89° 52' W. in a true line bet. sec. 20 and 29,

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

19.00 Road to Oraibi. Orig bears N.E. and S.W., level land bears N.E. and S.W. ascend slope over rolling land bears N.E. and S.W.

29.00 Top of low ridge bears N.E. and S.W.

40.03 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 N 3.20 on N. half and S 29 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.

53.50 Dry ravine course S.E. ascend N.E. slope.

80.06 The cor. of sec. 19, 20, 29 and 30, heretofore described.

Land level and rolling. Soil sandy and adobe 3rd rate.

No timber.

April 2nd 1909.

NOTE. Clouds obscure the sun at noon today rendering an observation for latitude with the star impossible.

BOOK 2596

April 6th 1909 ^{l.m.t.} At 7^h 00^m a m. D. set. off. 35° 58½' N. on the lat arc c. 623' N on the decl. arc and determine a meridian with the solar at the cor. of sec. 19, 20, 29 and 30, heretofore described,

Thence Drum

S 89° 56' W on a random line bet. sec. 19 and 30

40.00 Set temp ¼ sec. Cor.

79.80 Intersect the 4th Guide Meridian East. 16 lks. S of the cor. of sec. 19, 24, 25 and 30. ^{recently established by me and described in Standard Book "B"} Thence Drum

S 89° 57' E on a true line bet. sec. 19 and 30.

Descend N.E. slope over hilly sandy land through scattering pinion pine and cedar timber.

2.00 Dry ravine 8 lks. wide 2 ft. deep Course S.E.

3.00 Leave timber trail N.E. and S.W.

9.50 Road to Oraibi Ariz. head N.W. and S.E.

17.50 Road to Oraibi Ariz. head N.E. and S.W.

28.00 Foot of descent in depression head N.W. and S.E.

drains to the S.E. ascend N.W. slope of mesa, Enter cedar

and pinion pine timber head N.W. and S.E.

31.00 Top of mesa. head N.E. and S.W. thence over rolling land.

39.80 Set out iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for ¼ sec. cor. marked out head Cop ¼ S 19 on N. half and S 30 on S half, from which.

A pinion pine 8 ins. in diam. head N 47° W 142 lks. dist. marked ¼ S 19 B.T.

A pinion pine 6 ins. in diam. head S 14½° E 76 lks. dist. marked ¼ S 30 B.T.

47.70 East edge of mesa. head N.W. and S.E. descend abruptly over steep N.E. slope.

54.00 Foot of abrupt descent. head N.E. and S.W., leave timber head N.E. and S.W. desc. gradually

79.80 The cor. of sec. 19, 20, 29 and 30, heretofore described. Land rolling and hilly.

Soil sandy and stony 3rd and 4th rate.

Pinion pine and cedar.

N 70° 03' W. bet. sec. 19 and 20

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

24.00 Dry ravine at foot of descent Course S.E. arc. S.W.

Chains

- Slope
- 30.00 Level rolling land bears NW and S.E., enter stony hilly land bears NW and S.E.
- 32.75 Top of steep ascent level broken stony hilly land bears NW and S.E., enter rolling sandy land and scattering pinion pine and cedar timber bears NW and S.E.
- 40.00 Saw iron post 3 ft. long, 1 in. in diam, 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap. $\frac{1}{4}$ S 19 on W half, and S 20 on E half, from which. A cedar 20 ins. in diam, bears S 46° E 111 lbs dist marked $\frac{1}{4}$ S 20 B.T.
- A cedar 12 ins. in diam, bears N 84 $\frac{3}{4}$ ° W 106 lbs dist, marked $\frac{1}{4}$ S 19 B.T.
- 40.50 Wood road bears E and W.
- 47.00 Level rolling land bears E and W, enter stony mountainous land bears E and W. Ascent abrupt S. slope.
- 49.00 Top of abrupt ascent on S. edge of mead bears NW and S.E. level mountainous land bears NW and S.E. enter rolling sandy land bears NW and S.E. are gradually over S. slope.
- 80.00 Saw iron post 3 ft. long 2 ins. in diam 24 ins. in the ground for cor. of sects. 17, 18, 19 and 20. marked on brass cap T 30 N R 17 E S 18 in NW, R 17 E S 17 in NE, S 20 in SE and S 19 in SW quadrant. from which.
- A pinion pine 8 ins in diam bears N 87 $\frac{1}{2}$ ° E 70 lbs dist marked T 30 N R 17 E S. 17 B.T.
- A cedar 6 ins. in diam. bears S 46 $\frac{1}{2}$ ° E. 102 lbs dist marked T 30 N R 17 E S. 20 B.T.
- A pinion pine 10 ins in diam. bears S 28 $\frac{3}{4}$ ° W 199 lbs. dist marked T 30 N R 17 E S 19 B.T.
- A cedar 26 ins. in diam. bears N 46° W 250 lbs. dist, marked T 30 N R 17 E S 18 B.T.
- Land rolling hilly and mountainous.
Soil sandy and stony 3rd and 4th rate.
Timber pinion pine and cedar.
Mountainous land 2.00 chs.

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N 89° 52' E on a random line bet. sec. 17 and 20
 40.00 Set temp¹/₄ sec. cor.
 80.10 Intersect N and S line 16 lks. N. of the cor. of sec.
 16, 17, 20 and 21 ^{heretofore described} Hence I run
 S 89° 59' W. on a true line bet. sec. 17 and 20.
 Over rolling sandy land, through scattering sage
 and greasewood brush including growth and bunch
 grass.
 3.50 Dry ravine 10 lks. wide 2 ft. deep. Course S. E.
 5.50 Road bears N. W. and S. E.
 16.00 Leave rolling land bears N. W. and S. E., enter broken
 hilly land bears N. W. and S. E. ascend abruptly over
 N. E. slope Enter scattering cedar trees bears N. W. and S. E.
 30.00 Top of rocky spur bears N. W. and S. E. desc.
 36.50 Dry ravine Course N. asc.
 40.05 Set an iron post 3 ft. long 1 in. in diam., 26 ins. in
 the ground: for ¹/₄ sec. cor. marked on bear cap. ¹/₄
 S 17 on N half and S 20 on S half., from which.
 A pinion pine 12 ins. in diam., bears N 29° W 216
 lks. dist., marked ¹/₄ S 17 B. T.
 A pinion pine 18 ins. in diam bears S 15° E 152 lks
 dist., marked ¹/₄ S 20 B. T.
 46.00 Dry ravine Course N. asc.
 51.00 Top of rocky spur, bears N. and S. desc.
 55.00 Dry ravine Course N. asc.
 70.00 Top of steep ascent. leave stony land bears N. and S.
 ascend gradually over sandy land.
 80.10 The cor. of sec. 17, 18, 19 and 20, heretofore described.
 Land rolling and hilly.
 Soil sandy and stony 3rd and 4th rate.
 Many pinion pine and cedar.
 NOTE On this cor. I set off. 69 26 ¹/₂' N. on the decl. arc and
 at 12^h 2^m 35^{sec} pm. I observe the sun on the
 meridian the resulting latitude being 35° 59' N.

N 89° 57' W on a random line bet. sec. 18 and 19
 40.00 Set temp¹/₄ sec. cor.
 79.70 Intersect the 4th Guide Meridian E. 8 lks. N. of cor. of
 sec. 13, 18, 19 and 24, recently estab. by me & described in ^{Standard}
 Hence I run ^{Book "B"}
 East on a true line bet. sec. 18 and 19

Colours

43

- Over rolling sandy land through scattering pinon pine and cedar timber.
- 5.00 East edge of mesa toward NW and SE, leave rolling sandy land toward NW and SE, enter broken hilly stony land toward NW and SE descend abruptly over NE slope of mesa.
- 7.00 Foot of abrupt rocky descent: leave broken hilly land and timber toward NW and SE. enter rolling sandy land toward NW and SE.
- 39.70 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 $\frac{1}{4}$ 318 on W half and 319 on E half.
- Dig pits 18x18x12 in East W of post 3 ft. dist. and raise a mound of earth $3\frac{1}{2}$ ft. base. $1\frac{1}{2}$ ft. high N. of cor.
- 41.50 Wood road toward NW and SE.
- 43.50 Wood road toward N and S.
- 55.00 Foot of descent in depression toward NW and SE. ascend abruptly over W. slope of mesa.
- 69.00 Top of ascent on W. edge of mesa toward NW and SE. Leave stony land toward NW and SE, enter rolling sandy land and pinon pine and cedar timber toward NW and SE.
- 79.70 The cor. of secs. 17, 18, 19 and 20, hereinbefore described. Land rolling hilly and broken. Soil sandy and stony 3rd and 4th rate. Timber pinon pine and cedar.

N^o 03 W. Secs. 17 and 18

- Ascend SW. slope over rolling sandy land through scattering sage and greasewood brush undergrowth and bunch grass
- 2.50 Top of sand ridge toward NE and SW. desc NW. slope
- 10.00 Wood road toward NW and SE.
- 18.00 Dry ravine course NE. asc.
- 26.00 Top of ridge toward NE and SW. desc.
- 35.50 Dry ravine course NE. asc.
- 40.00 Set an iron post 3 ft long 1 in. in diam. 26 in. in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap $\frac{1}{4}$ 318 on W half and 317 on E half. from which. A pinon pine 10 in. in diam. bears S $75\frac{1}{2}$ ° E 102 lbs. dist. marked $\frac{1}{4}$ 317 B.T.

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- A pinion pine 14 ins. in diam. bear S 52 $\frac{3}{4}$ ° W 75 lbs dist. marked $\frac{1}{4}$ S 18 B.T.
- 63.00 Top of sand ridge bear N.W. and S.E. desc. N.E. slope
- 72.00 Enter stony land bear N.W. and S.E. desc. abruptly.
- 77.00 Foot of abrupt descent. Leave stony land bear N.W. and S.E., Enter rolling sandy land bear N.W. and S.E. desc. gradually.
- 80.00 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground, for cor. of sec. 7, 8, 17 and 18. marked on brass cap. T 30 N S 7 in N.W. R 17 E 38 in N.E. 317 in S.E. and 318 in S.W. quadrants, from which.
- A cedar 12 ins. in diam. bear N 75 $\frac{1}{4}$ ° E 119 lbs. dist. marked T 30 N R 17 E 38 B.T.
- A cedar 8 ins. in diam. bear S 74 $\frac{1}{2}$ ° E 90 lbs. dist. marked T 30 N R 17 E 317 B.T.
- A cedar 10 ins. in diam. bear S 62 $\frac{1}{4}$ ° W 131 lbs. dist. marked T 30 N R 17 E S. 18 B.T.
- A cedar 8 ins. in diam. bear N 83 $\frac{1}{2}$ ° W 126 lbs. dist. marked T 30 N R 17 E S. 7 B.T.
- Land rolling hilly and broken
Soil sandy and stony 3rd and 4th rate.
Timber pinion pine and cedar.

- N 89° 59' E on a random line bet. sec. 8 and 17
- 40.00 Set temp $\frac{1}{4}$ sec. cor.
- 80.08 Intersect N and S. line 5 lbs. S. of the cor. of sec. 8, 9, 16 and 17, heretofore described,
Thence I run
- S 89° 57' W on a true line bet. sec. 8 and 17.
- Descend W. slope over stony land. Cliffs and ledges through sage brush undergrowth and bunch grass.
- 15.00 Sandstone ledge 10 ft. high. bear N. and S.
- 23.00 Dry ravine course S.W. 10 lbs. wide 3 ft. deep.
- 29.50 Wood road bear N.E. and S.W.
- 40.04 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap. $\frac{1}{4}$ S 8 on N half and 317 on S half.
- Rig pits 18 x 18 x 12 ins. E and W. of post. 3 ft. dist. and raise a mound of earth 3 $\frac{1}{2}$ ft. long 1 $\frac{1}{2}$ ft. high N. of cor.

Chains

45

- 4500 Flood of descent in depression toward N.E. and S.W. drains to the S.W. over N.E. slope.
- 74.00 Ridge of sand spur, toward N. and S. desc.
- 79.50 Dry ravine course N.E. over gradually. Enter cedar timber toward N.E. & S.W.
- 80.08 The cor. of secs. 7, 8, 17 and 18, heretofore described.
Land rolling hilly and broken.
Soil sandy and stony 3rd and 4th rate.
Number Cedar

April 6th 1909

- April 7th ¹⁹⁰⁹ Ch. 7³⁰ am. Lat. Det. off. 36° 00' N.
on the lat. arc 6° 46' N. 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
West on a random line bet. secs. 7 and 18.
- 46.00 Set temp. 1/4 sec. cor.
- 79.68 Distance the 4th Guide meridian East 8 lks S.
of the cor. of secs. 7, 12, 13 and 18, recently established by me
and described in Standard Book "B"
Thence Drive
S 89° 57' E on a true line bet. secs. 7 and 18.
Over rolling sandy land through scattering sage
brush under growth and touch grass.
- 20.00 Leave rolling land toward N.W. and S.E. enter stony
hilly land toward N.W. and S.E. ascend N.W. slope.
- 21.50 Enter scattering pine on pine and cedar timber
toward N.W. and S.E.
- 30.00 High ridge toward N.E. and S.W. desc.
- 39.68 Set an iron post 3 ft. long 1 in. in diam 26 ins. in
the ground for 1/4 sec. cor. marked on base cap 1/4
S 70° N. half and S 18 on S half. From which
a cedar 6 ins. in diam toward N 45 1/2° W 98 lks. dist.
marked 1/4 S 7 P.T.
A cedar 14 ins in diam. toward S 45 1/2° E 118 lks. dist.
marked 1/4 S 18 P.T.
- 44.00 Dry ravine course S.W. ascend N.W. slope.
- 44.50 Wood road toward N. and S.
- 52.50 Wood road toward N.E. and S.W.
- 75.00 Summit of high sand ridge toward N. and S. desc. E. slope.
- 79.68 The cor. of secs. 7, 8, 17 and 18, heretofore described.
Land rolling and hilly.

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Soil sandy 3rd rate.
Timber pinon pine and Cedar.

N 0° 03' W bet. sec. 7 and 8.

Over hilly sandy land through to pinon pine and cedar timber and sage brush under growth.

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

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

12.00 Dry ravine course N.E. asc.

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

40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for 1/4 sec. cor. marked on brass cap. 1/4 S 7 on W half and S 8 on E half.

Pig pits 18x18x12 ins. N and S of post 3 ft. dist. and have a mound of earth 3 1/2 ft. base, 1 1/2 ft. high. W of cor.

46.00 Foot of descent in depression bears N.W. and S.E. drains to the S.E. ascend South slope.

73.00 Enter scattering pinon pine and Cedar 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. 5, 6, 7 and 8. marked on brass cap T 30 N 36 in N.W. R 17 E S 5 in N.E. S 8 in S.E. and S 7 in S.W. quadrants. from which

A cedar 8 ins. in diam bears N 65 1/4° E 483 lbs. dist. marked T 30 N R 17 E S 5 B.T.

A cedar 6 ins. in diam. bears S 29 1/2° E 390 lbs. dist. marked T 30 N R 17 E S 8 B.T.

A cedar 6 ins. in diam. bears S 17 3/4° W 220 lbs. dist. marked T 30 N R 17 E S. 7 B.T.

A cedar 8 ins. in diam. bears N 31° W 307 lbs. dist. marked T 30 N R 17 E S. 6 B.T.

Land hilly.

Soil sandy 3rd rate.

Timber pinon pine and Cedar.

N 89° 57' E on a random line bet. sec. 5 and 8.

40.00 Set temp. 1/4 sec. cor.

Reclaim

- 80.04 Intersect N and S. line 7 lks N. of the cor. of secs. 4, 5, 8 and herebefore described, ^{Thence I run}
 West on a true line bet. secs. 5 and 8.
 Ascend gradually over N.E. slope through scattering sage brush and greasewood bush under growth and bunch grass.
- 29.00 Enter cedar and pinion pine timber tract N.W. and S.E.
 Ascend steeply over stony land.
- 40.02 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap $\frac{1}{4}$ 35 on N. half and 38 on S. half, from which.
 A pinion pine 12 ins. in diam. bears N 40° W 306 lks. dist. marked $\frac{1}{4}$ 35 B.T.
 A cedar 8 ins. in diam. bears S 83 $\frac{1}{2}$ ° W 137 lks. dist. marked $\frac{1}{4}$ 38 B.T.
- NOTE At this cor. I set off 6 $\frac{1}{4}$ 49' N. on the decl. arc. and at 12 $\frac{1}{2}$ 02 on pan. l.m.l. observed the sun on the meridian the resulting latitude being 36° 01' N.
- 48.00 Top of rocky ridge bears N and S., descend abruptly over W. slope.
- 55.00 Dry ravine course S.W. ascend.
- 57.50 Wood road bears N and S.
- 59.00 Top of ascent in sand stone ledge bears N.W. and S.E.
 descend abruptly over stony land
- 62.00 Top of steep descent leaves stony land bears N.W. and S.E.
 enter rolling sandy land bears N.W. and S.E., desc gradually.
- 63.00 Dry ravine course S.W. asc.
- 78.00 Top of spur, bears N.E. and S.W. desc.
- 80.04 The cor. of secs. 5, 6, 7 and 8, herebefore described.
 Land rolling and hilly.
 Soil sandy and stony 3 $\frac{1}{2}$ and 4 $\frac{1}{4}$ rate.
 Timber pinion pine and cedar.

- 40.00 N 89° 57' W. on a random. line bet. secs. 6 and 7,
 Set trap $\frac{1}{4}$ sec. cor.
- 79.50 Intersect the 4 $\frac{1}{4}$ Guide Meridian East. At the cor. of secs. 1, 6, 7 and 12, recently estab. by me & described in
^{Thence I run} Standard Book "B"
 S 89° 57' E on a true line bet. secs. 6 and 7

BOOK 2596

- Around W. slope of ridge over stony land through scattering pinion pine and cedar timber and scattering sage and greasewood brush undergrowth and bunch grass.
- 9.00 Top of rocky ridge bears N. and S. desc.
- 10.50 Dry canal course N.E. asc.
- 16.50 Top of sand ridge bears N.E. and S.W. desc.
- 39.50 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 cap $\frac{1}{4}$ S 6 on N. half and S 7 on S half., from which.
A cedar 6 ins. in diam. bears $N 80^{\circ} \frac{3}{4} E 74$ lbs. dist. marked $\frac{1}{4}$ S 6 B.T.
A cedar 12 ins. in diam. bears $S 10^{\circ} \frac{3}{4} E 187$ lbs. dist. marked $\frac{1}{4}$ S 7 B.T.
- 43.00 Leave timber bears N.W. and S.E.
- 58.00 Prob. of descent in depression bears N.W. and S.E. drains to the S.E. asc.
- 78.50 Wood road. bears N.E. and S.W.
- 79.50 The cor. of sec 5, 6, 7 and 8, heretofore described.
Land rolling and hilly.
Soil sandy and stony 3rd and 4th rate.
Timber pinion pine and cedar.
-
- 40.00 Set temp $\frac{1}{4}$ sec. cor.
- 80.20 Intersect N. bdy of Twp. 3 lbs. ^{S 89.58 W.} of the cor. of sec. 5, 6, 31 and 32, recently estab. by me & described in Exterior Book "U"
Thence run $S 0^{\circ} 02' E$ on a true timber. Sec 5 and 6.
Descent S.E. slope over hilly sandy land through scattering pinion pine and cedar timber and sage brush undergrowth.
- 17.00 Depression bears E. and W. drains E. asc.
- 28.00 Top of rocky ridge bears E. and W. desc.
- 40.20 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 cap $\frac{1}{4}$ S 6 on W half and S 5 on E half., from which.
A pinion pine 6 ins. in diam. bears $S 65^{\circ} \frac{1}{4} E 48$ lbs. dist. marked $\frac{1}{4}$ S 5 B.T.
A cedar 14 ins. in diam. bears $S 39^{\circ} \frac{1}{2} W 41$ lbs. dist. marked $\frac{1}{4}$ S 6 B.T.

Behavies

72.50

Dry ravine 8 lks. wide 3 ft. deep course 8 W.

75.50

Wood road bears N. E. and S. W.

80.20

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

Land rolling and hilly.

Soil sandy 3rd and 4th rate.

Timber pinon pine and cedar.

April 7th 1909

General Description

This township is very broken and contains every variety of land, from level to mountainous. The soil ranging from stony to sandy loam. The soil of the bottom land along the Cras Cr. Wash. which flows through the center of the township in a south westerly direction is a sandy loam, producing crops without irrigation. The soil of the remaining portion of the township except the stony mountainous portion can nearly all be classed as 3rd rate, is covered with a heavy growth of sage brush and bunch grass and is valuable for grazing purposes.

Pinon pine and cedar timber is found on the top and along the sides of the mesa portion of the township, the trees however are too small to be of any value except for fuel and posts for fencing. The sand stone which in large bodies underlies all of the mesas is very soft and disintegrates upon exposure to the wind and rain.

No mineral was found in the township.

The township is poorly watered, the only living water found in the township being two small springs in sec. 23.

There are two Hogans in sec. 6, three in sec. 2, one in sec. 16, one in sec. 17 and three in sec. 23, which are occupied by the Navajo Indians, who are the only settlers in the township.

Virduy E. Blous

US Examiner of Surveys

NOTE

Final affidavits in book 4 of subdivision.

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

LIST OF NAMES.

A list of the names of the individuals employed by Sidney E. Blouk
Examiner of Surveys
....., United States ~~Deputy Surveyor~~, to assist in running, measuring, and
marking the lines and corners described in the foregoing field notes of the survey of the Subdivision Lines
of Twp. 30 N. R. 17 E. of the Gila & Salt River Basin and Meridian in the Territory of Arizona

- showing the respective capacities in which they acted:
- Jay E. Jellick, and David P. White Carpenter
 - Charles L. Shumway Chainman
 - Lloyd Jennings and Arthur A. Beard Chainman
 - Fred A. Warner Moundman
 - Moundman
 - Charles L. Shumway and Arthur A. Beard Armen
 - Armen
 - Harry Lake May and Charles L. Shumway 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

See Subdivision Book "V"

-, Chainman.
-, Chainman.
-, Moundman.
-, Moundman.
-, Armen.
-, Armen.
-, Flagman.

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



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EXAMINER OF SURVEYS
FINAL OATH OF UNITED STATES DEPUTY SURVEYOR

2508

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 Subdivisional 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 1904

The foregoing field notes of the survey of *the subdivision lines of*
Township 30 North, Range 17 East of the
Gila and Salt River Base and Meridian, Arizona

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

Frank S. Ingalls
United States Surveyor General
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.