

MAR 28 1911

Subdivisional
BOOK-V

2600

BOOK 2600

FIELD NOTES

OF THE SURVEY OF THE

Subdivision lines of Twp. No. 30 North of Range

No. 16 East

of the Gila and Salt River Basins and Meridian,

in the Territory of Arizona

EXECUTED
AS SURVEYED BY

Widney E. Blount

United States ^{Commissioner of Surveys} ~~Deputy Surveyor~~

Special Instructions from the Commissioner of the General Land Office.

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

Survey commenced May 25th 1909

Survey completed June 7th 1909

BOOK 2600 NAMES AND DUTIES OF ASSISTANTS.

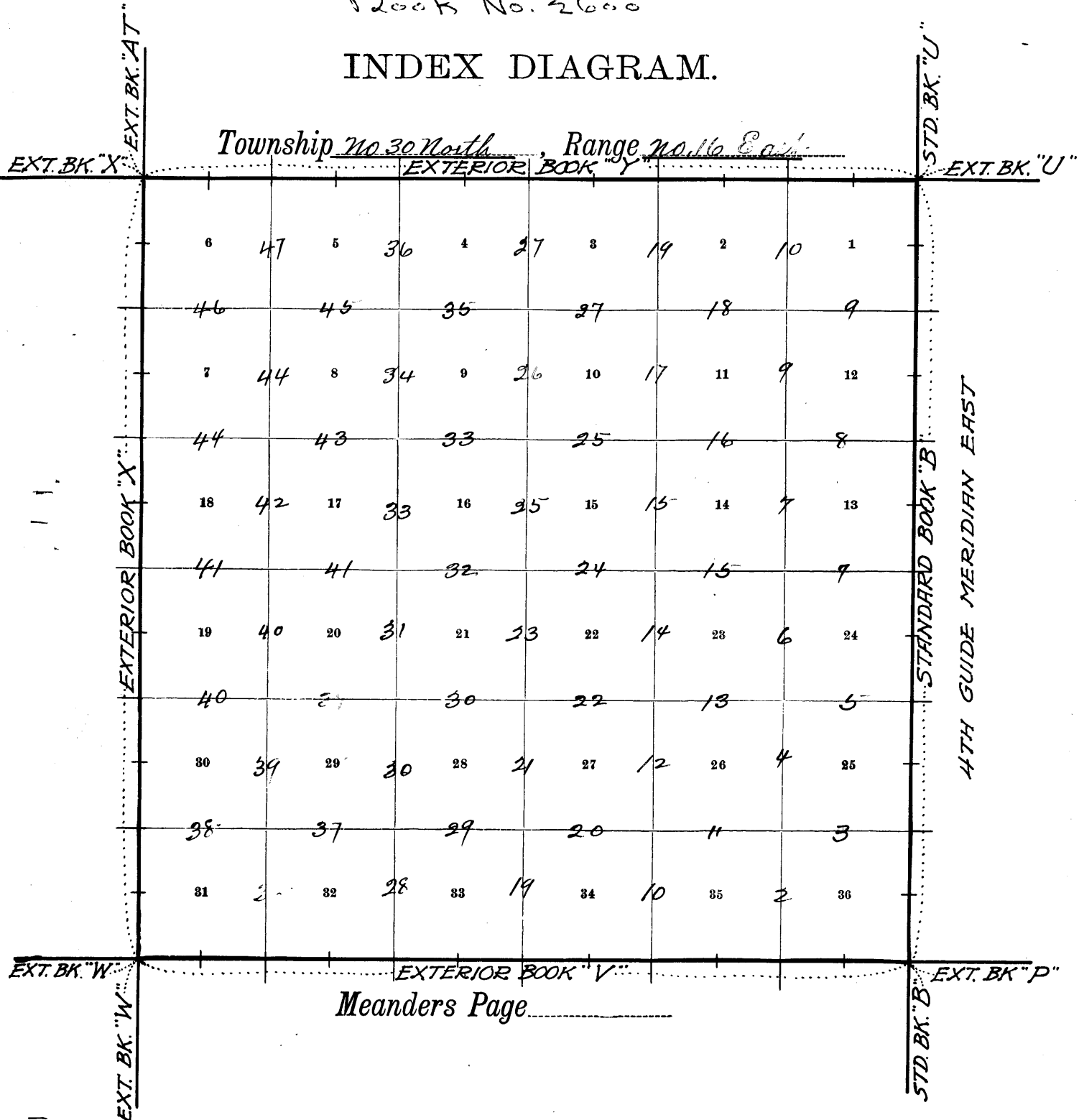
<u>Van L. White</u>	<u>Compassman</u>
<u>Lafayette Jennings</u>	<u>Chainman</u>
<u>Chas L. Shumway</u>	<u>Chainman</u>
<u>Fred L. Warner</u>	<u>Moundman</u>
<u>Arthur A. Beard</u>	<u>Uxman</u>
<u>Jay E. Jellick</u>	<u>Flagman</u>

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INDEX DIAGRAM.

Township No 30 North, Range No. 16 East



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 May 25th 1909 and executed with a W & L. E. Gurly engineers transit No. 76 with a Burt Solar attachment. The horizontal limb, is provided with one double vernier reading to single minutes of arc. the verniers of the latitude and declination are reading to 0' 30" of arc.

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

At my Camp which is located near the corner of Secs 15, 16, 21 and 22 Twp. 30 N, R16 E., Latitude 35° 59' N. Longitude 110° 37' W. I set off 35° 59' N on the lat. arc 20° 59' N on the decl. arc. and at 3^h 57^m p.m. l.m.t. determine a meridian with the solar and mark a point thereof by a nail driven in a stake set firmly in the ground 5 chs. N. of my instrument.

At 7^h 27^m p.m. l.m.t. by my watch which is correct local mean time. I observe Polaris 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.

Astronomical time of observation May 25 th 1909	7 ^h 27
Equivalent to time of May 24 th	31 27

Astron time U.C. Polaris May 15 th	31 54.4	
Reduction to May 24 th subtract	35.3	
Astron. time U.C. May 24 th	21 19.1	Subtract
Hour angle Polaris at observation	21 19.1	
	10 08	

Azimuth of Polaris at observation 0° 40' W

May 25th 1909

1909
 May 26th At 6^h 30^m a.m. l.m.t. Lay off the azimuth of Polaris 0° 40' to the East and mark the meridian thus determined by a tack driven in the stake already set,

Subdivision of T₃₀ N. R16 E.

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ow which the meridian falls, 0.4 ins west of the point determined by the solar observation
 At 7^h 00^m am. I m.c. Deb. off. 35° 59' N. on the lab arc. 21° 06' N. on the decl arc and determine a meridian with the solar, and mark a point thereof, by a nail driven in the stake already set. 5 chs N. of my instruments, this point, falls 0.3. ins. west of the point determined by the Polaris observation
 The solar apparatus by p.m. and a.m. observations defined positions for meridian, respectively about 0' 21" East and 0' 16" West of the meridian established by the Polaris observation; therefore I conclude that the adjustments of the instruments are satisfactory.

I begin at the cor. of Secs. 1, 2, 35 and 36 on the S. try. of T₃₀ N. R16 E. which I established April 10, 1909, at 35° 56' 41" N. Longitude 110° 34' 23" W., At this cor. I set off 35° 56 1/2' N. on the lab. arc. 21° 06' N. on the decl. arc and at 8^h 00^m a.m. L.m. determine a meridian with the solar. There I run N 0° 01' W. between Secs. 35 and 36.

Ascend N. slope of ridge over hilly sandy land through scattering cedar and prairie pine timber

- 0.75 Dry ravine Course E asc. S. slope.
- 11.50 Top of high ridge head E and W. desc steeply
- 16.00 Dry ravine Course N.E. asc.
- 28.00 Top of ridge head E and W. desc
- 36.50 Enter stony land head E and W.
- 40.00 Set an iron post 3ft. long. 1 in diam 26 ins. in the ground for 1/4 sec. ch. marked on head cap. 1/4 S 36 -
 on W. half and S 36 on E half. from which.
 A prairie pine 6 ins. in diam. head S 62 1/2° E 47 lbs. dist. marked 1/4 S 36 B.T.
- A prairie pine 10 ins. in diam. head S 60 1/2° W 117 lbs. dist. marked 1/4 S 35 B.T.
- 42.00 Dry ravine Course N.E. asc.
- 45.00 Top of low ridge head E and W. desc
- 47.00 Dry ravine 20 lbs. wide 3ft. deep Course S.E. ascend gradually.
- 50.00 Begin steep rocky ascent over S.E. slope.
- 53.60 Top of steep rocky ascent on S. edge of mesa. head hilly land head N.E. and S.W., enter rolling sandy mesa land head N.E. and S.W. ascend gently over S.E. slope.

Chains

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60.00 Top of ascent on mesa bears NW. and SE. desc gradually over N.E. slope.

73.60 Leave rolling land bears NW and SE. enter broken stony land bears NW. and SE. descend steeply over sand stone ledges

80.00 The point for the Cor. of sec. 25, 26, 35 and 36 falls in the bottom of a dry ravine course SE. where natural causes would insure the destruction of a corner therefore at.

80.50 Set an iron post 3/4 ft. long, 2 ins. in diam. 24 ins. in the ground for witness Cor. to Cor. of sec. 25, 26, 35 and 36. marked on brass cap. W.C. in N. half. T₃₀ N. S₂₆ in NW. R₁₆ E S₂₅ in N.E. S₃₆ in SE. and S₃₅ in S.W. quadrants, from which.

Opinion pine 8 ins. in diam. bears S₃₄° E 207 lbs. dist. marked W.C. T₃₀ N. R₁₆ E S₃₆ B.T.

Opinion pine 6 ins. in diam. bears S₅₀° W 147 lbs. dist. marked W.C. T₃₀ N. R₁₆ E S₃₅ B.T.

No other trees available.

Dig pits 24x24x12 ins. N.E. and N.W. of post 6 ft. deep and raise a mound of earth 4 ft. base 2 ft. high W of Cor.

Land rolling and hilly.

Soil sandy and stony 3rd and 4th rate.

Timber pinion pine and Cedar.

From the true point for Cor. of sec. 25, 26, 35 and 36.

I run

S₈₉° 59' E on a random line bet. sec. 25 and 36.

40.00 Set temp. 1/4 sec. Cor.

79.80 Intersect the 4th Guide Meridian East. 8 lbs. S. of the Cor. of sec. 25, 30, 31 and 36, recently estab. by me & described in Standard Book "B" thence I run.

S₈₉° 58' W on a true line bet. sec. 25 and 36.

Ascend N.E. slope over sandy mesa land through scattering pinion pine and Cedar timber

3.00 Top of ridge bears NW. and SE. desc S.W. slopes

12.50 Foot of descent in depression bears N and S. drains to the N. asc. gradually

35.00 Top of rocky ridge bears N and S. desc.

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

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- $\frac{1}{4}$ S 25 on W. half and S 36 on E. half, from which
 A pinion pine 5 ins. in diam., bears N. 15° E 45 lbs. dist.
 marked $\frac{1}{4}$ S 25 B.T.
 A pinion pine 10 ins. in diam., bears S 40 $\frac{1}{2}$ ° E 43 lbs. dist.
 marked $\frac{1}{4}$ S 36 B.T.
- 59.25 Leave rolling sandy mesa land bears N.E. and S.W., enter
 stony hilly land bears N.E. and S.W. desc. steeply over
 sand stone ledges.
- 63.00 Top of steep rocky descent, leave broken hilly land
 bears N. and S. Enter rolling sandy land
- 66.75 Dry ravine 40 lbs. wide 3 ft. deep course S. asc.
 gently
- 68.75 Wood road bears N. and S.
- 79.70 Enter dry ravine course S.E. comes from W.
- 79.80 The fourth for Cor. of sec. 25, 26, 35 and 36, ^{herebefore} described.
 Land rolling hilly and broken,
 Soil sandy and stony 3rd and 4th rate.
 Timber pinion pine and Cedar
-
- N 0° 01' W, bet. Secs 25 and 26, from true cor. point.
 Ascend S.W. slope over broken stony hilly land through scattering
 pinion pine and Cedar timber
- 0.50 The Witness Cor. to Cor. of sec. 25, 26, 35 and 36.
- 7.00 Top of Mesa, leave hilly land bears N.E. and S.W.
 Enter stony mountainous land bears N.E. and S.W.
 ascend abrupt S.E. slope.
- 9.40 Top of ascent on S. edge of mesa, leave mountainous
 land bears N.E. and S.W. Enter rolling sandy mesa
 land bears N.E. and S.W. ascend gradually.
- 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 Cop $\frac{1}{4}$ S 26
 on W. half and S 25 on E. half. from which.
 A cedar 10 ins. in diam., bears S 80 $\frac{1}{2}$ ° E 182 lbs. dist.,
 marked $\frac{1}{4}$ S 25 B.T.
 A pinion pine 10 ins. in diam., bears S 9° W 185 lbs. dist.,
 marked $\frac{1}{4}$ S 26 B.T.
- 48.00 Wood road bears N.W. and S.E.
- 66.00 Top of sand ridge bears N.W. and S.E. desc. over N.E.
 slope.
- 70.00 Old. Wood road bears N. and S.E.
- 73.00 Leave Wood road bears N.W. and S.

Chaus

76.50 Dry ravine 70 lks. wide 3 ft. deep course S.E. asc.

80.00 Saw 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 brass cap. T₃₀N S 23 in NW. T₁₆E S 24 in NE. S 25 in SE and S 26 in SW. quadrant. from which.

A Cedar 20 ins in diam. bears N 23 1/2° E 101 lks. dist marked T₃₀N, R₁₆E S 24 B.T.

A Cedar 8 ins in diam. bears S 49 1/4° E 308 lks. dist marked. T₃₀N, R₁₆E S 25 B.T.

A Cedar 14 ins. in diam. bears S 65° W 118 lks. dist marked T₃₀N, R₁₆E S 26 B.T. and

A Cedar 10 ins in diam bears N 62° W 304 lks dist marked T₃₀N, R₁₆E S 23 B.T.

Land rolling hilly and mountainous.
Soil sandy and stony 3rd and 4th rate.
Timber principally cedar.
mountainous land. 2.40 chs.

On this cor. Obs off. 21° 07' N on the decl arc and at 11^h 57^m am. C.M.C. observed the sun on the meridian the resulting latitude being 35° 58 1/2' N.

40.00 W 89° 58' E on a random line bet. sec 24 and 25 -
Soh temp 1/4 sec. Cor.

79.90 Intersect the 4th Guide Meridian East. 3 lks. N of the cor. of sec. 19, 24, 25 and 30, recently estab. by me and described in Standard Book "B" Thence I run

29.00 S 89° 59' W. on a true line bet. sec. 24 and 25 -
Ascend gradually E. slope over rolling sandy land through scattering pines and cedar timber

35.00 Leave rolling sandy land bears NE. and SW. Enter stony mountainous land bears NE. and SW. ascend steep rocky E. slope of mesa.

39.95 Top of steep rocky ascent on E edge of mesa. Leave mountainous land bears NE. and SW. Enter rolling sandy mesa land bears NE. and SW. ascend gently.

Saw iron post 3 ft. long, 1 in in diam. 26 ins in the ground for 1/4 sec. cor. marked on brass cap 1/4 S 24 on N. half and S 25 on S. half. from which.

A Cedar 4 ins. in diam, bears N 66 1/4° E 13 lks. dist marked 1/4 S 24 B.T.

Subdivision of T₃₀N, R₁₆E

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Aspen pine 12 ins. in diam. bears S 19° W 151 lbs. dist marked $\frac{1}{4}$ S 25 B.T.

41.00 Top of high ridge bears N and S. desc steeply over W. slope.

73.75 Dry ravine 20 lbs. wide 1 ft. deep course S. are. ~~are~~

77.90 Wood road bears N. and S.

79.90 The Cor. of secs. 23, 24, 25 and 26, hereinbefore described. Land rolling hilly and mountainous. Soil sandy and stony 3rd and 4th rates. Timber pinion pine and cedar, mountainous land 6.00 Chs.

N 0° 01' W Secs. 23 and 24

Ascend gradually S. slope over hilly sandy land through heavy pinion pine and cedar timber

31.00 Leave hilly land and timber bears N.E. and S.W. Enter rolling land bears N.E. and S.W.

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

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

61.00 Leave rolling land bears N.E. and S.W., descend gently over NW. slope over hilly land bears N.E. and S.W.

75.80 Dry ravine course S.W. Ascend S.E. slope.

76.00 Enter scattering pinion pine and cedar 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 ~~secs.~~ ^{secs. 13, 14, 23 and 24} marked on base of T₃₀N, S 14 in N.W. R₁₆E S 13 in N.E. S 24 in S.E. and S. 23 in S.W. quadrant. from which.

A cedar 12 ins in diam, bears N 75 $\frac{1}{2}$ ° E 52 lbs. dist mkt. T₃₀N R₁₆E S 13 B.T.

A cedar 14 ins. in diam, bears S 47 $\frac{1}{2}$ ° E 107 lbs. dist, marked T₃₀N, R₁₆E, S 24 B.T.

A cedar 10 ins. in diam, bears S 25° W 190 lbs. dist, marked T₃₀N, R₁₆E S 23 B.T. and

A cedar 10 ins. in diam, bears N 37 $\frac{1}{2}$ ° W 87 lbs. dist, marked T₃₀N, R₁₆E S. 14 B.T.

Land rolling and hilly

Subdivision of T₃₀N, R16E

Chains

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

NOTE This cor. is situated on point of ridge bears NE. and SW.

40.00 N 89° 59' E on a random line bet. sec 13 and 24
Sth temp. 4 sec. cor.

79.96 Intersect 4th Guide Meridian East. 5 lks. S. of the
Cor. of sec. 13, 18, 19 and 24, recently estab. by me &
Thence Drive. described in Standard Book "B"

N 89° 57' W, on a true line bet. sec. 13 and 24
Descend N.W. slope over rolling, sandy, and stony
mead land, through scattering Juniper pine and
Cedar timber

23.00 Wood road bears N and S, at foot of descent.
Ascend E. slope of sand ridge

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

39.98 Sth an iron post, 3 ft. long 1 in in diam., 26 ins.
in the ground for 1/4 sec. cor. marked on base
C of 1/4 S 13 on N. half and S 24 on S. half.
From which.

A Cedar 28 ins. in diam., bears N 70° E 67 lks. dist.,
marked 1/4 S 13 B.T.

A Juniper pine 6 ins. in diam., bears S 60 1/2° W 34 lks.
dist. marked 1/4 S 24 B.T.

65.00 Dry ravine Course N. asc.

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

79.00 Dry ravine Course S.W. asc.

79.96 The Cor. of Secs. 13, 14, 23 and 24, hereinbefore described.
Land rolling and hilly

Soil sandy and stony 3rd and 4th rate.
Timber Juniper pine and Cedar.

May 26th 1907

1909
June 1st Ap. 7^h 30^m a.m. ^{limit} Sth off. 3559' N, on
the lat arc. 22° 02' N, on the decl arc and determine
a meridian with the solar at the Cor. of sec 13,
14, 23, and 24, ^{hereinbefore described} Thence Drive

N 0° 01' W, bet. Sec 13 and 14
Descend N.E. slope over rolling sandy land through
scattering Juniper pine and Cedar timber and
Sage Brush undergrowth

23.00 Foot of descent in dry ravine Course N.E. asc.

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23.50 Level timber land NE. and SW.

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 1/4 S 14 on W half and S 13 on E half. Dig pits 18x18x12 ins. N and S. of post 3 ft. dia. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.

80.00 Set an iron post 3 ft. long 2 in. in diam. 24 in. in the ground for cor. of Secs 11, 12, 13 and 14 marked on brass cap T 30 N S 11 in NW. T 16 E S 12 in NE. S 13 in SE and S 14 in SW quadrants. Dig pits 18x18x12 ins. in each sec. 5 1/2 ft. dia. and raise a mound of earth 4 ft. base, 2 ft. high W. of cor. Land rolling and hilly. Soil sandy 3rd rate. Timber pinon pine, and Cedar

N 89° 57' E on a random line to sec 12 and 13

40.00 Set temp. 1/4 sec. cor.

79.98 Intersect the 4th Guide Meridian East. 5 lbs. S recently estab. by me & described in Standard Book "B" of this Cor. of Secs. 7, 12, 13 and 18. Thence run S 89° 55' W. on a true line to sec. 12 and 13. Descend gently SW. slope over rolling sandy land through scattering sagebush undergrowth.

8.50 Old Wood road bears N. and S.

10.00 Depression bears NW. and SE. drains SE. asc.

13.50 Wood road bears NW. and SE.

39.99 Set an iron post 3 ft. long 1 in. in diam. 26 in. in the ground for 1/4 sec. cor. marked on brass cap 1/4 S 12 on W. half and S 13 on E half. Dig pits 18x18x12 ins. E and W. of post 3 ft. dia. and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high N. of cor.

47.00 Top of sand ridge bears N. and S. desc gradually

54.00 Foot of descent in depression bears NW. and SE. drains to the SE. asc.

79.98 The cor. of secs. 11, 12, 13 and 14, heretofore described. Land rolling Soil sandy 3rd rate No timber

Chains

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N⁰01' W. bet. Secs 11 and 12.

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

34.00 Top of sand ridge bears N.E. and S.W. due N.W. slope

35.00 Enter juniper and Cedar timber bears E and W.

40.00 Set a Cedar post 3 ft. long 3 ins. sq. 24 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ S 11 on W face and S 12 on E. face. from which.A Cedar 4 ins. in diam. bears S 57° E 98 lbs. dist. marked $\frac{1}{4}$ S 12 B.T.A Cedar 12 ins. in diam. bears N 83 $\frac{1}{2}$ ° W 41 lbs. dist. marked $\frac{1}{4}$ S 11 B.T.At this cor. D set off 22° 03' N on the decl. arc and at 11^h 57 $\frac{1}{2}$ ^m a.m. L.M.T. observe the sun on the meridian the resulting latitude being 36° 00 $\frac{1}{2}$ ' N.

43.00 Leave timber bears E and W.

80.00 Set an iron post 3 ft. long 2 ins. in diam. 24 ins. in the ground for cor. of sec. 1, 2, 11 and 12 marked on brass cap T₃₀N S₂ in N.W. R₁₆E.

S 1 in N.E. S 12 in S.E. and S 11 in S.W. quadrants.

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

W. of cor.

Land rolling

Soil sandy 3rd rate.

Timber juniper and Cedar

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

40.00 Set temp. $\frac{1}{4}$ sec. cor.80.08 Intersect the 4th Guide Meridian East. 10 lbs. N. of the cor. of sec. 1, 6, 7 and 12, recently estab. by me and described in Standard Book "B"

Thence run

S 89° 59' W. on a true line bet. sec. 1 and 12.

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

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

40.04 Set a cedar post 3 ft. long 3 ins. sq. with marked stone

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24 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ S 1 on N face and S 12 on E face
Dig pits 18 x 18 x 12 ins. E and W. of both 3 ft. deep, and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.

80.08 The cor. of sec. 1, 2, 11 and 12, heretofore described.
Land rolling.
Soil sandy 2nd and 3rd rate.
No timber.

40.00 No 0' 0" W. on a random line bet. sec. 1 and 2.
Set temp. $\frac{1}{4}$ Sec. Cor.

80.12 Intersec N. l. of Twp. 30 N. ^{N 89° 58' W} of the cor. of recently estab. by me and described in Exterior Book "V" sec. 1, 2, 35 and 36. Thence S run

South on a true line bet. sec. 1 and 2.

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

40.12 Set a cedar post 3 ft. long, 3 ins. sq. with marked stone 24 ins. in the ground for $\frac{1}{4}$ sec. cor marked $\frac{1}{4}$ S 2 on W. face and S 1 on E face.

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

68.00 Begin gradual ascent over N.W. slope.

80.12 The cor. of sec. 1, 2, 11 and 12, heretofore described.
Land rolling.
Soil sandy 2nd and 3rd rate.
No timber

June 1st 1909

1909
May 27th A.M. 7^h 00^m l.m.t. on the lat. arc, 21° 16' N. on the decl. arc. and determine a meridian with the solar at the cor. of sec. 23, 34 and 35 on the S. l. of the Twp. recently estab. by me and described in Exterior Book "V" Thence S run.

No 0' 0" W. bet. sec. 34 and 35

Over broken stony land through scattering pine and cedar timber

3.50 Dry ravine course S.W. Leave broken stony land. head

Chaus

N.E. and S.W., Enter mountainous land toward N.E. and S.W.
Ascend abruptly over S. slope of mesa.

22.30 Top of abrupt ascent on S. edge of mesa, leave
stony mountainous land toward E. and W., enter rolling
sandy mesa land toward E. and W.

40.00 Set an iron post 3 ft. long 1 in. in diam., 26 ins.
in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap.
N₄S 84 on W. half and S. 35 on E. half., from which.
A pinion pine 16 ins. in diam. toward S 67 $\frac{1}{2}$ ° E 64 lbs.
diam. marked $\frac{1}{4}$ S 35 B.T.

A Cedar 18 ins. in diam. toward N 39 $\frac{1}{2}$ ° W 15 lbs. diam.
marked $\frac{1}{4}$ S. 34 B.T.

73.00 Top of ridge toward E. and W. desc. N. slope.

79.00 Leave rolling mesa land toward N.E. and S.W., Enter
broken stony land toward N.E. and S.W., desc.
abruptly over N.W. slope.

80.00 Set an iron post 3 ft. long 2 ins. in diam. 24 ins.
in the ground for cor. of sec. 26, 27, 34 and 35
marked on brass cap T₃₀ N., R₁₆ E. S₂₇ in N.W. R₁₆ E.
S₂₆ in N.E. S₃₅ in S.E. and S. 34 in S.W. quadrants.
from which.
A pinion pine 6 ins. in diam. toward S 2° E 73 lbs. diam.
marked T₃₀ N., R₁₆ E. S. 35 B.T.

A Cedar 8 ins. in diam. toward S 54° 45' W 27 lbs. diam.
marked T₃₀ N., R₁₆ E. S. 34 B.T.

A Cedar 8 ins. in diam. toward N 58 $\frac{1}{2}$ ° W 85 lbs. diam.
marked T₃₀ N., R₁₆ E. S. 27 B.T.

No other trees available.

Dig pit 36x36x12 ins. in sec. 26 N.E. of post. 5 $\frac{1}{2}$ ft.
diam. and raise a mound of earth 4 ft. diam 2 ft.
high. W. of cor.

Land rolling broken and mountainous
Soil sandy sand stony 3rd and 4th rate.
Pine pinion pine and cedars.
Mountainous land. 1880 Chs

40.00 S 89° 59' E on a random line bet. sec. 26 and 36 -
Set temp $\frac{1}{4}$ sec. cor.

79.90 Intersect N. and S. line 3 lks. N. of the point for
cor. of sec. 25, 26, 35 and 36, heretofore described,
Thence Drum.

BOOK 2600

- N 89° 58' W on a true line bet. sec. 26 and 35
Ascend E slope over stony hilly land through scattering
pinon pine and cedar timber and bunch grass
- 8.00 Top of rocky ridge bears N. and S. desc. steeply.
- 12.00 Dry ravine course N.E. asc. steeply leave hilly land
bear N.E. and S.W. Enter mountainous land bear
E and W.
- 15.00 Top of steep ascent on E. edge of mesa, leave
mountainous land bear N.W. and S.E. enter rolling
land bear N.W. and S.E. ascend gently
- 38.00 Top of high sand ridge bear N.E. and S.W. desc
over N.W. slope.
- 39.95 Set an iron post 3/4 ft. long 1 in in diam. 26 ins.
in the ground for 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 14 ins. in diam bear N 57 1/2 W 165
lks. dist. marked 1/4 S 26 B.T.
- A pinion pine 12 ins. in diam. bear S 86 1/2 W 256
lks. dist. marked 1/4 S 35 B.T.
- 42.00 Dry ravine course N.E. asc.
- 46.00 Wood road bear N.W. and S.E.
- 51.00 Top of ridge bear N and S. desc.
- 57.00 Dry ravine course N.E. asc
- 67.50 Begin steep ascent over stony land.
- 75.00 Top of high ridge bear N.E. and S.W. desc.
- 79.00 Top of sand stone ledge 10 ft. high. bear N.E. and S.W.
- 79.90 The cor. of sec. 26, 27, 34 and 35, heretofore described.
Land rolling broken hilly and mountainous.
Soil sandy and stony 3rd and 4th rate.
Numerous pinon pine and cedar
mountainous land. 3.00 Chs.

- W 0° 01' W. bet. sec. 26 and 27,
Ascend S slope over hilly stony land through
scattered pinon pine and cedar timber
- 10.00 Top of high ridge bear E and W. desc. steeply
- 19.00 Dry ravine 25 lks. wide course S.W. asc.
- 40.00 Set an iron post 3/4 ft. long 1 in in diam. 26 ins.
in the ground for 4 sec. cor. marked on brass
cap S. 27 on W. half and S 26 on E half.
from which.

Chains

41.00 W. Cedar 5 ins. in diam. bears N 53 1/2° E 203. Chs. dist marked
 1/4 S 26 B.T.
 68.25 W. Cedar 12 ins. in diam. bears S 86° W. 51 lks. dist. marked
 1/4 S 27 B.T.
 75.00 Top of ridge bears East W. desc.
 78.40 Dry ravine course E. asc.
 80.00 Leaves hilly land bears N.E. and S.W. Enter mountainous land bears N.E. and S.W.
 Top of ascent on S. edge of mesa bears mountainous land bears N.E.
 and S.W. Enter rolling sandy mesa land bears N.E. and S.W.
 Set an iron post. 2 1/2 ft. long 2 ins. in diam. 24 ins. in the ground
 for cor. of sec. 22, 23, 26 and 27, marked on base of T 30 N.
 S 22 in N.W., R 16 E S 23 in N.E. S 26 in S.E. and S 27 in S.W. quadrants.
 from which.
 A pinion pine 6 ins. in diam. bears N 52 1/2° E 73 lks. dist.
 marked T 30 N. R 16 E S 23 B.T.
 A cedar 12 ins. in diam. bears S 61 1/2° E 229 lks. dist. marked
 T 30 N R 16 E S 26 B.T.
 A pinion pine 8 ins. in diam. bears S 49 1/2° W 58 lks. dist.
 marked T 30 N R 16 E S 27 B.T.
 A pinion pine 7 ins. in diam. bears N 47° W 33. Chs. dist
 marked T 30 N. R 16 E S 22 B.T.
 Land rolling hilly and mountainous.
 Soil sandy and stony 3rd and 4th rate.
 Timber pinion pine and cedar.
 Mountainous land 3,40 Chs.
 NOTE At this cor. I set off 21° 17 1/2' N. on the decl. arc, and at 11 57^{am}
 l.m.t. observe the sun on the meridian and obtain on
 the lat. arc a reading of 35° 58 1/2'.
 S 89° 58' E on a random line bet. sec 23 and 26
 40.00 Set temp 1/4 sec. cor.
 79.90 Intersect N and S. line 8 lks. S. of the cor. of sec 23, 24 25 and
 26, ^{formerly described} Three Drum
 S 89° 59' W on a true line bet. sec 23 and 26.
 Around E. slope over hilly sandy land through scattering cedar
 and pinion pine timber and sage brush undergrowth.
 1.00 Top of ridge bears N. and S. desc.
 3.00 Dry ravine course S.E. asc. gradually.
 21.90 Wood road bears N.W. and S.E.
 28.00 Top of sand ridge bears N.W. and S.E. desc.
 31.00 Dry ravine course S.W. asc.
 32.00 Top of sand ridge bears N.E. and S.W. desc. gently

Subdivision of T₃₀ N₆ R₁₆ E.

Chain

BOOK 2600

- 35.90 Wood road from N and S.
- 39.95- Set an iron post 3 ft. long 1 in. in diam. 26 ins in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap $\frac{1}{4}$ S 23 on N. half and S 26 on S. half. from which.
- A cedar 10 ins. in diam. bears N 46° E. 279 lks. dist. marked $\frac{1}{4}$ S 23 B.T.
- A cedar 12 ins. in diam. bears S 78° E 188 lks. dist. marked $\frac{1}{4}$ S 26 B.T.
- 41.00 Dry ravine Course S. asc.
- 74.00 Low sandy land from N and S, Ester stony land from N and S. ascend abruptly over E. slope.
- 79.90 The cor. of sec. 22, 23, 26 and 27, heretofore described. Land hilly.
- Soil sandy and stony 3rd and 4th rate.
- Timber pinion pine and cedar.
-
- No. 01' th. Sec. 22 and 23.
- Ascend S.E. slope over hilly sandy and stony land through pinion pine and cedar timber and bunch grass.
- 5.00 Top of sand ridge bears N.E. and S.W. desc. N.W. slope
- 19.50 Dry ravine Course S.E. asc.
- 24.00 Top of sand ridge bears E and W. desc.
- 37.00 Dry ravine Course S.E. 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 22 on W. half and S 23 on E. half., from which.
- A pinion pine 5 ins. in diam. bears N 13° W 72 lks. dist. marked $\frac{1}{4}$ S 22 B.T.
- A pinion pine 4 ins. in diam. bears S 51° E 116 lks. dist. marked $\frac{1}{4}$ S 23 B.T.
- 44.00 Top of sand ridge bears N.E. and S.W. desc.
- 49.00 Dry ravine Course E. asc.
- 63.00 Top of divide bears N.E. and S.W. desc. N.W. slope.
- 74.00 Dry ravine 40 lks. wide 3 ft. deep. Course N.W.
- 80.00 Set an iron post 3 ft. long 2 ins. in diam. 24 ins in the ground for cor. of sec. 14, 15, 22 and 23. marked on brass cap. T 30 N S 15 in N.W. R 16 E S 14 in N.E. S 23. in S.E. and S 22 in S.W. quadr. out. from which.
- A cedar 10 ins. in diam. bears N 23 $\frac{1}{4}$ ° E 97 lks. dist. marked T 30 N, R 16 E S 14 B.T.
- A cedar 6 ins. in diam. bears S 76° E 138 lks. dist. marked T 30 N R 16 E S 23 B.T.

A cedar 7 ins. in diam. bears S 51 1/2° W 86 lbs dist marked
T 30 N R 16 E S 22 B.T.

A cedar 10 ins. in diam. bears N 40 1/2° W 102 lbs dist marked
T 30 N. R 16 E S 15 B.T.

Land hilly.

Soil sandy and stony 3rd and 4th rate.

Number piñon pine and cedar.

N 89° 59' E on a random line bet. sec 14 and 23

40.00 Set tarp. 1/4 sec. cor.

79.86 Intersect N and S. line, 12 lbs. S. of the cor. of sec. 13, 14, 23
and 24, ^{heretofore described} Thence S run

S 89° 54' W. on a true line bet. sec. 14 and 23.

Ascend N.E. slope over rolling sandy land through scattering
piñon pine and cedar timber and bunch grass.

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

29.80 Dry ravine course N.E. asc.

39.93 Set a cedar post 3 ft. long 3 ins. sq. 24 ins. in the ground
for 1/4 sec. cor., marked 1/4 S 14 on N face. and S 23 on S face
from which

A piñon pine 6 ins. in diam. in diam. bears N 25° W 124 lbs. dist.
marked 1/4 S 14 B.T.

A cedar 6 ins. in diam. bears S 33 1/2° W 103 lbs. dist., marked
1/4 S 23 B.T.

50.70 Old wood road bears N and S.

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

61.00 Top of sand stone ledge 10 ft. high. bears N.E. and S.W. desc. abruptly.

64.50 Dry ravine course N.W. asc.

75.75 Road to Tuba Arizona, bears N.W. and S.E.

79.86 The cor. of sec. 14, 15, 22 and 23, heretofore described.

Land rolling and hilly.

Soil sandy and stony 3rd and 4th rate.

Number piñon pine and cedar!

May 27th 1909.

June 2nd 1909
At 8^h 00^m a.m. l.m.t. I set off 35° 59' N. on
the lat. arc. 22° 10' N. on the decl. arc. and
determined meridian with the solar at the
Cor. of sec. 14, 15, 22 and 23, ^{heretofore described} Thence S run,
N 0° 01' W bet. sec. 14 and 15.

Ascend S.E. slope of ridge over hilly sandy and
stony land through scattering piñon pine

Subdivision of T₃₀N, R₁₆E.

BOOK 2600

- and cedar timber and bunch grass
- 2,50 Top of sand ridge bears N.W. and S.E. desc.
- 6,35 Road to Tuba, Arizona bears N.W. and S.E.
- 15,00 Dry sand wash 40 lks wide 2ft. deep. Course W ascend. S. slope.
- 32,00 Leave sandy land bears E and W., Enter stony land bears E and W. ascend abruptly
- 34,00 Top of abrupt. ascent., leave stony land bears E and W. Enter level sandy land bears E and W.
- 40,00 Set an iron post 3ft. long 1 in in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap $\frac{1}{4}$ S 15 on W. half and S 14 on E half, from which.
A cedar 12 ins. in diam. bears S 20 $\frac{3}{4}$ ° E 153 lks. dist. marked $\frac{1}{4}$ S 14 B.T.
- A cedar 10 ins. in diam. bears S 40 $\frac{1}{2}$ ° W. 77 lks. dist. marked $\frac{1}{4}$ S 15 B.T.
- 50,00 Leave level land bears E and W., Enter hilly land bears E and W., Desc. N. slope.
- 57,00 Dry ravine 40 lks. wide 3ft. deep course N.W.
- 80,00 Set an iron post 3ft. long 2 ins. in diam. 24 ins. in the ground for cor. of secs. 10, 11, 14 and 15 marked on brass cap., T 30 N. S 10 in N.W. R 16 E S 11 in N.E. S 14 in S.E. and S 15 in S.W. quadrants, from which.
A cedar 8 ins. in diam. bears N 18° E 218 lks. dist. marked T 30 N R 16 E S 11 B.T.
- A cedar 8 ins. in diam. bears S 7 $\frac{1}{2}$ ° E 152 lks dist. marked T 30 N R 16 E S 14 B.T.
- A cedar 6 ins. in diam. bears S 34 $\frac{1}{2}$ ° W 245 lks. dist. marked T 30 N R 16 E S 15 B.T. and
A cedar 16 ins. in diam. bears N 7 $\frac{3}{4}$ ° W 225 lks dist. marked T 30 N. R 16 E S 10 B.T.
- Land level and hilly.
Soil sandy and stony 3rd and 4th rate,
Timber pinon pine and cedar.

40,00 N 89° 54' E on a random line bet. secs. 11 and 14.
Set temp $\frac{1}{4}$ sec. cor.
79,86 Intersect N and S. line 2 lks S. of cor. of sec.

Chain

17

- 11, 12, 13 and 14 ^{heretofore described} Thence Drive
 S89°53'W on a true line 1/2 ch. sec 11 and 14
 Ascend S.E. slope over rolling sandy land through
 sage brush undergrowth and bunch grass.
- 36.00 Top of ascent; leave rolling land head N.E. and S.W.
 Enter level land and scattering pinion pine and
 Cedar timber head N.E. and S.W.
- 37.93 Set an iron post 3/4 ch. long 1 in in diam. 26 ins
 in the ground for 1/4 sec. Cor. marked on base of
 1/4 S 11 on N. half and S 14 on S. half. From which
 A Cedar 6 ins. in diam. head N 22° E 228 lbs. dist.
 marked 1/4 S 11 B.T.
 A Cedar 4 ins in diam head S 27 1/4° E 210 lbs. dist.
 marked 1/4 S 14 B.T.
- 56.50 Depression head N.W. and S.E. drains to N.W.
 Leave level land head N.W. and S.E. Enter hilly land
 head N.W. and S.E. ascend gently over N.E. slope of ridge
- 73.00 Top of low ridge head N.W. and S.E. desc. gently
- 79.86 The cor. of sec 10, 11, 14 and 15, heretofore described.
 Land level rolling and hilly.
 Soil sandy 3rd rate.
 Timber pinion pine and cedar.
-
- N 0° 01' W 1/2 ch. sec. 10 and 11
 Descend gradually over N.W. slope through
 scattering pinion pine and Cedar timber and
 bunch grass
- 2.00 Leave timber head E and W.
- 18.10 Dry sand wash 50 lbs. wide 4 ft. deep course N.W.
 ascend gently S.W. slope.
- 40.00 Set a Cedar post 3/4 ch. long 3 ins. sq. with marked
 stone 24 ins. in the ground for 1/4 sec. cor.,
 marked 1/4 S 10 on W. face and S 11 on E face
 Dig pits 18x18x12 ins. N and S. of post 3/4 ch. dist.
 and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high
 W. of cor.
- 68.00 Enter scattering pinion pine and Cedar timber
 head E and W.
- 79.00 Top of low sand ridge head E and W. desc. gently.
- 80.00 Set an iron post 3/4 ch. long 2 ins. in diam. 24 ins.
 in the ground for cor. of sec 2, 3, 10 and 11, marked

Subdivision of T₃₀ N. R. 16 E

BOOK - 2600

on bear cap T₃₀ N. & 3 mi N.W. R16 E. S 8 in N.E.
 S 11 in S.E. and S 10 in S.W. quadrant from which.
 A cedar 8 ins. in diam, bear N 4° E 170 lbs. dish.
 marked T₃₀ N. R16 E S 2 B.T.
 A cedar 16 ins. in diam, bear S 3 1/2° E 101 lbs. dish
 marked T₃₀ N. R16 E S 11 B.T.
 A cedar 8 ins. in diam. bear S 48° W 97 lbs. dish.
 marked T₃₀ N. R16 E S 10 B.T.
 A cedar 10 ins. in diam bear N 53 1/2° W 146 lbs dish
 marked T₃₀ N. R16 E S 3 B.T.
 Land rolling and hilly.
 Soil sandy 3rd rate.
 Timber pinion pine and cedar.

NOTE - At the cor of sec 2, 3, 10 and 11 D set off 22° 11' N.
 on the decl arc and at 11^h 58^m a.m. L.M.C
 observe the sun on the meridian the resulting
 latitude being 36° 01' N.

N 89° 53' E on a random line bet. sec. 2 and 11
 40.00 Set temp. & sec. cor.
 79.90 Intersect N and S. line 6 lbs. S. of the cor. of sec 1,
 2, 11 and 12 ^{hereinbefore described} ₁ Thence D run
 S 89° 50' W, on a true line bet. sec. 2 and 11
 Descend gradually over N.W. slope, through scattering
 sage brush undergrowth.
 24.00 Foot of descent in depression bear N and S. drains
 to the north. ascend gradually over N.E. slope
 39.95 Set a cedar post 3 ft. long, 3 ins. dia. with marked
 stone 24 ins. in the ground for 4 sec. cor. marked
 1/4 S 2 on N. and S 11 on S. faces.
 Dig pits 24 x 24 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.
 65.00 Enter scattering pinion pine and cedar timber
 bear N and S
 74.00 Top of sand ridge bear N.E. and S.W. desc over
 N.W. slopes
 79.90 The cor. of sec. 2, 3, 10 and 11, hereinbefore described.
 Land hilly.
 Soil sandy 3rd rate.

Timber pinion pine and cedar.

40.00 N 0° 01' W on a random line bet. sec. 2 and 3. Set temp 1/4 sec. cor.

80.16 Intersect N. bdy. of the 3 lks. N 89° 58' W. of the cor. of sec. 2, 3, 34 and 35, recently estab. by me & described in Exterior Book "Y" Thence Drive

South on a true line bet. sec. 2 and 3.

20.00 Ascend N. slope of sand ridge over hilly land, through scattering cedar and pinion pine timber. Top of sand ridge bears E and W. desc. S. slope.

37.00 Dry ravine course N.E. asc.

40.16 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 3/4 W half and S. 3/4 W E half. from which.

A Cedar 4 ins. in diam. bears N 47° E 88 lks. dist marked 1/4 S 2 B.T.

A Cedar 5 ins. in diam. bears S 22 3/4 W 143 lks. dist. marked 1/4 S. 3 B.T.

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

63.75 Top of sand stone ledge 15 ft. high bears N.W. and S.E. desc. abruptly

78.00 Foot of descent in depression bears N.E. and S.W. drains to the S.W. asc.

80.16 The cor. of sec. 2, 3, 10 and 11, heretofore described. Land hilly.

Soil sandy and stony 3rd and 4th rate.

Timber pinion pine and cedar.

June 2nd 1909

May 28th 1909. Ab. 7^h 00^m a.m. l.m.t. Set off 35° 56 1/2' N. on the lat. arc. 21° 26 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. bdy. of the Twp, recently estab. by me & described in Exterior Book "V" Thence Drive

N 0° 02' W. bet. sec. 33 and 34

Over hilly sandy land through heavy cedar and pinion pine timber

4.00 South edge of depression bears N.W. and S.E.

Chain

BOOK 2600

- 4.60 Center of depression drains S.E.
- 9.00 North edge of depression bears N.E. and S.W. ascend steep S.E. slope.
- 35.00 Top of sand ridge bears N.E. and S.W. desc. N.W. slope
- 40.00 Set an iron post 3 ft. long 1 in in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap. $\frac{1}{4}$ S. 33 on W half and S 34 on E half., from which a pinion pine 8 ins. in diam. bears S $55\frac{1}{2}^{\circ}$ E 237 lks. dist. marked $\frac{1}{4}$ S 34 B.T.
- A pinion pine 7 ins. in diam. bears S $86\frac{3}{4}^{\circ}$ W 149 lks. dist. marked $\frac{1}{4}$ S 33 B.T.
- 46.50 Foot of descent in S. edge of depression bears N.W. and S.E. &
- 48.80 North side of depression bears N.E. and S.W. ascend S.E. slope of ridge.
- 58.00 Top of ridge bears N.E. and S.W. desc steeply.
- 63.00 Dry ravine Course East. asc.
- 75.00 Top of ridge bears N.W. and S.E. desc
- 79.00 Dry ravine Course S.E. asc.
- 80.00 Set an iron post 3 ft. long 2 ins. in diam. 24 ins. in the ground for cor. of recs. 27. 28. 33 and 34 marked on brass cap. T 30 N. S. 28 in N.W. R 16 E S 27 in N.E. S 34 in S.E. and S 33 in S.W. quadrants. from which a Cedar 6 ins. in diam. bears N $43\frac{1}{4}^{\circ}$ E 139 lks. dist. marked T 30 N. R 16 E S 27 B.T.
- A pinion pine 12 ins. in diam. bears S $30\frac{1}{2}^{\circ}$ E 118 lks. dist. marked T 30 N. R 16 E S 34 B.T.
- A pinion pine 16 ins. in diam. bears S $46\frac{1}{2}^{\circ}$ W 139 lks. dist. marked T 30 N. R 16 E S. 33 B.T. and
- A pinion pine 6 ins. in diam. bears N 74° W 171 lks. dist. marked T 30 N. R 16 E. S. 28 B.T.
- Land broken and hilly.
- Soil sandy and stony 3rd and 4th rate.
- Timber pinion pine and cedar

- S $89^{\circ} 59' E$ on a random line bet. recs. 27 and 34
- 40.00 Set temp $\frac{1}{4}$ sec. cor.
- 80.00 Intersect N and S. line 3 lks. S. of the Cor. of recs. 26, 27, 34 and 35 ^{heretofore described} Three Drum.
- West, on a true line bet. recs. 27 and 34

Chain

- Descend steep rocky W. slope over hilly land through heavy piñon pine and cedar timber
- 13.60 East edge of rocky depression bears N.W. and S.E. drains to the S.E.
- 24.00 West edge of depression bears N.W. and S.E. asc.
- 39.75 Top of sand ridge bears N.W. and S.E. desc
- 40.00 Set an iron post 3/4 long 1 in in diam. 26 ins. in the ground for 1/4 sec. cor. marked on brass cap. 1/4 S 27 on N. half and S 34 on S half - from which
- A piñon pine 6 ins. in diam bears N 50 1/2° E 173 lks. dist. marked 1/4 S 27 B.T.
- A cedar 10 ins. in diam. bears S 38 1/2° E 87 lks. dist. marked 1/4 S 34 B.T.
- 53.00 East edge of rocky depression bears N.E. and S.W. drains to the S.W.
- 61.60 West edge of depression, ascend S.E. slope over sandy land.
- 80.00 The cor. of sec. 27, 28, 33 and 34, heretofore described. Land hilly.
Soil sandy and stony 3rd and 4th rate.
Timber piñon pine and cedar.
-
- N 70° 02' W Sec. 27 and 28
- ascend S.E. slope over hilly sandy land through heavy piñon pine and cedar timber
- 15.00 Top of sand ridge bears E and W. desc N. slope
- 31.50 Leave sandy land bears E and W. Enter stony land. bears N.E. and S.W. desc. abruptly over ledge.
- 40.00 Set an iron post 3/4 long 1 in in diam. 26 ins. in the ground for 1/4 sec. cor. marked on brass cap. 1/4 S 28 on W half and S 27 on E half, from which
- A cedar 5 ins. in diam. bears N 38 1/2° E 45 lks. dist. marked 1/4 S 27 B.T.
- A cedar 6 ins. in diam. bears N 75 1/2° W 84 lks. dist. marked 1/4 S 28 B.T.
- 48.00 Dry ravine N.W. asc.
- 50.00 Top of ridge bears N.W. and S.E. desc.
- 61.00 Dry ravine course W. asc.
- 65.00 Top of ridge bears E and W desc.
- 68.00 Dry ravine 30 lks. wide 3/4 deep. course W. Leave

BOOK 2600

timber bears E and W, ascend S. slope of ridge
 73.00 Top of ridge bears E and W. due.
 80.00 Set an iron post. 3 ft. long 2 ins. in diam. 2 1/4 ins.
 in the ground for cor. of sec. 21, 22, 27 and 28.
 marked on brass cap. T₃₀N. S₂₈ in N.W. R₁₆E S₂₂
 in N.E. S₂₇ in S.E. and S₂₈ in S.W. quadrants.
 from which.

A Cedar 14 ins. in diam, bears N₂₂^{3/4}W 168 lbs. dist.
 marked T₃₀N. R₁₆E S₂₁ B.T.

No other trees available.

Dig pits 24x18x12 ins. in each sec. N.E., S.E. and
 S.W. of post 5 1/2 ft. dist. and raise a mound of earth
 4 ft. base 2 ft. high W. of cor.

This cor. is situated at foot of descent in depression
 bears E and W.

Land hilly and broken.

Soil sandy and stony 3rd and 4th rate

Timber pinion pine and cedar.

On this cor. I set off 21^o 27 1/2' N. on the decl. arc.
 and at 11^h 57^m a.m. l.m.t. observed the sun on the
 meridian the resulting latitude being 35° 58 1/2'.

40.00 Cash on a random line bet. Secs. 22 and 27
 Set temp 1/4 sec. cor.
 79.90 Intersect N and S. line at the cor. of Secs. 22, 23,
 26 and 27 ^{heretofore described} _{Shenel Drum}

Wash on a true line bet. Secs. 22 and 27.

Ascend rocky E slope of ridge over hilly land through
 heavy pinion pine and cedar timber

5.00 Top of steep rocky ascent bears N and S. asc. gradually

22.00 Top of ridge bears N.E. and S.W. due N.W. slope.

39.95 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 S₂₂ on N. half and S₂₇ on S. half. from which.

A Cedar 12 ins. in diam, bears N₅₅^oE 105 lbs. dist.
 marked 1/4 S₂₂ B.T.

A Cedar 10 ins. in diam bears S₄₉^{3/4}W 58 lbs. dist.
 marked 1/4 S₂₇ B.T.

40.10 Dry ravine. Course S.W. ascend sand stone ledge

48.00 Top of ledge bears N.E. and S.W. decl. abruptly.

Chains

53.00 Foot of ledge bears NW. and SE. Enter sandy land bears NW. and SE. desc gradually.

58.00 Dry ravine 35 lks. wide 3 ft. deep course S.W. Mence over rolling land.

60.00 Leave timber bears NE and SW.

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

N 0° 02' W bet. secs. 21 and 22.
Over rolling sandy land through sage and greasewood brush undergrowth and scattering bunch grass

11.00 Dry sand wash 40 lks. wide 2 ft. deep course W. ascend S. slope of sand ridge,

13.00 Enter prairie pine and Cedar timber bears NE. and SW.

13.25 Top of ridge bears NE and SW. desc.

16.50 Dry ravine 20 lks. wide Course S.W. asc. gently

39.95 Dry ravine 20 lks. wide 2 ft. deep course S.W.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ Sec. cor. marked on brass cap $\frac{1}{4}$ S 21 on W half and S 22 on E half from which.
A prairie pine 10 ins. in diam. bears N 21 $\frac{1}{2}$ ° E 76 lks. dia. marked $\frac{1}{4}$ S 22 B.T.
A Cedar 10 ins. in diam. bears N 88 $\frac{1}{4}$ ° W 16 lks. dia. marked $\frac{1}{4}$ S 21 B.T.

47.50 Top of sand ridge bears NE. and SW. desc NW. slope

79.90 Dry sand wash 30 lks. wide, 2 ft. deep. Course W. asc

80.00 Set an iron post. 3 ft. long 2 ins. in diam 24 ins. in the ground for cor. of secs 15, 16, 21, and 22. marked on brass cap. T 30 N 15 16 in NW. R 16 E S 15 in NE. S 22 in SE. and S 21 in SW. quadrants. from which.
A Cedar 6 ins. in diam bears N 74° E 131 lks. dia.

BOOK 2600

marked T30N R16E S. 15 B.T.
A Cedar 14 ins. in diam. bears S 43 1/4° E 217 lks. dist
marked T30N R16E S 22 B.T.

A Cedar 10 ins. in diam. bears N 46 1/2° W. 441 lks.
dist. marked T30 N R16 E S. 16 B.T.

No other trees available

Dig pit 36x36x12 ins in sec. 21 8 ft. dist. and
raise a mound of earth 4 ft. base, 2 ft. high.

W of cor.
Land hilly.

Soil sandy and stony 3rd and 4th rate.

Timber pinon pine and cedar.

Each on a random line bet. sec. 15 and 22.

40.00 Set temp 1/4 sec. cor.

80.00 Intersect N and S. line 18 lks. S. of the cor. of sec.
14, 15, 22 ^{hereafter described.} and 23. Thence Drum

S 89° 53' W on a true line bet. sec. 15 and 22

Descend NW. slope over hilly sandy land through
heavy pinon pine and cedar timber

1.50 Dry ravine course NW. asc.

10.00 Top of sand ridge bears NW. and S.E. desc

19.00 Dry ravine course North asc.

21.00 Top of sand ridge bears N and S. desc

38.00 Dry ravine course North 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 brass cap 1/4 S 13°
on N. half. and S 22° on S. half., from which.

A cedar 8 ins. in diam. bears S 27 1/2° W 101 lks. dist.
marked 1/4 S 22 B.T.

No other trees within limits

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

42.00 Top of rocky ridge bears N and S. desc. W. slopes

49.00 Foot of descent in rocky ravine course N. asc.
steeply

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

58.50 Sand stone ledge 15 ft high bears N.E. and S.W.

60.50 Leave stony land bears N and S. Enter sandy land
bears N and S.

Chain

80.00 The cor. of secs. 15, 16, 21 and 22, heretofore described.
 Land hilly.
 Soil sandy and stony 3rd and 4th rate.
 Timber prairie pine and cedar

May 28th 1909.

June 3rd 1909 At 8^h 00^m a.m. ^{l.m.t.} Set off. 35° 59' n. on
 the lat. arc. 22° 18' n. on the decl. arc. and determine
 a meridian with the solar at the cor. of secs. 15, 16
 21 and 22, ^{heretofore described} hence S run

N 0° 02' W bet. secs 15 and 16.

Over hilly sandy land, through heavy prairie pine and
 cedar timber and bunch grass

4.50 Dry ravine 15 lks. wide 5 ft. deep course S.W.

5.50 Dry ravine 15 lks wide 5 ft. deep course S.W. asc.
 S.E. slope of sand ridge

18.00 Top of sand ridge bears n.w. and S.E., bears timber
 bears n.w. and S.E. descend n.e. slope of ridge

40.00 Set a cedar post 3 ft. long, 3 ins sq. with marked
 stone 24 ins. in the ground for $\frac{1}{4}$ sec. cor. marked
 14 S 16 on W. face and S 15 on E face.

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.

74.00 Dry sand wash 75 lks. wide, 2 ft. deep course n.w.
 ascend S.W. slope of sand ridge.

74.90 Road to Tuba, Arizona, 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 secs. 9, 10, 15 and 16.
 marked on brass cap. T 20 n. S. 9 in n.w. T 16 E. S 10
 in n.e. S 15 in S.E. and S. 16 in S.W. quadrants.

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

Land hilly.
 Soil sandy 3rd rate.
 Timber prairie pine and cedar

N 89° 52' E on a random line bet. secs. 10 and 15

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

80.00 Intersect n. and S. line 21 lks. n. of the cor. of secs

Chain

BOOK 2600

10, 11, 14 and 15 ^{heretofore described} Thence down
 N 89° 59' W on a true line bet. sec. 10 and 15
 Ascend gradually N.E. slope of sand ridge
 through scattering pinion pine and cedar timber
 26.00 Top of ridge bears N.W. and S.E. desc. S.W. slope
 40.00 Set a cedar post 3 ft. long 3 ins. sq. with marked
 stone 24 ins. in the ground for $\frac{1}{4}$ sec. cor. marked
 $\frac{1}{4}$ S 10 on N. face and S 15 on S. face., from which
 A cedar 12 ins. in diam. bears N 70 $\frac{1}{2}$ ° W 68 lbs. dist.
 marked $\frac{1}{4}$ S 10 B.T.
 A cedar 8 ins. in diam. bears S 44 $\frac{1}{2}$ ° E 27 lbs. dist. marked
 $\frac{1}{4}$ S 15 B.T.
 40.25 An Indian Hogan bears north 120 lbs. dist.
 42.00 An Indian Hogan bears north 50 lbs. dist.
 66.00 Dry ravine course S.W. asc.
 67.00 Top of low ridge bears N.E. and S.W. desc. gently.
 75.00 Leave timber bears N.W. and S.E.
 80.00 The cor. of sec 9, 10, 15 and 16, heretofore described.
 Land hilly.
 Soil sandy 3rd rate.
 Timber pinion pine and cedar

N 0° 02' W. bet. sec. 9 and 10.
 Descend N.W. slope over hilly sandy land, through
 scattering sage and greasewood brush and bunch
 grass
 9.00 Enter pinion pine and cedar timber bears N.W. and
 S.E.
 40.00 Set a cedar post 3 ft. long 3 ins. sq. 24 ins. in
 the ground for $\frac{1}{4}$ sec. cor. marked, $\frac{1}{4}$ S 9 on W
 face and S 10 on E. face. from which
 A cedar 6 ins. in diam. bears N 83 $\frac{1}{4}$ ° W 269 lbs. dist.
 marked $\frac{1}{4}$ S. 9. B.T.
 A cedar 7 ins. in diam. bears S 22 $\frac{1}{4}$ ° E 77 lbs. dist.
 marked $\frac{1}{4}$ S 10 B.T.
 NOTE At this cor. I set off 22° 19' N. on the decl. arc and
 at 11^h 57^m 50^{sec} am. I set & observe the sun on the
 meridian, and obtain on the lat. arc, a reading
 of 36° 01' N. nearly for the latitude of this place.
 50.00 Top of sand ridge bears N.E. and S.W. desc. N.W. slope
 55.00 Leave timber bears East W

80.00 Set an iron post 3ft. long 2 ins. in diam., 24 ins. in the ground for cor. of secs. 3, 4, 9 and 10 marked on brass cap. T₃₀N. S. 4 in N.W. T₁₆E S 3 in N.E. S 10 in S.E. and S. 9 in S.W. quadrant.
 Dig pits 18x18x12 ins. in each sec. 5 1/2 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
 Land hilly.
 Soil sandy 3rd rate.
 Timber few pine and cedar

40.00 S 89° 59' E on a random line bet. sec. 3 and 10
 Set temp. 1/4 sec. cor.

80.02 Intersect N and S. line 2 lks. N. of the cor. of sec. 2, 3, 10, and 11^{heretofore described} Thence Drum

N 89° 58' W. on a true line bet. sec. 3 and 10.
 Descend N.W. slope over rolling sandy land through scattering sage brush and bunch grass.

28.25 Dry ravine 30 lks wide 2 ft. deep course S.W.

40.01 Set a cedar post 3ft. long 3 ins. sq. with marked stone 24 ins. in the ground for 1/4 sec. cor marked 1/4 S 3 on N. face and S 10 on S. face.

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

49.75 Dry sand wash 100 lks. wide, 4 ft. deep course N.W.
 Ascend gently over N.E. slope,

80.02 The cor. of sec. 3, 4, 9 and 10, heretofore described.

Land rolling
 Soil sandy 3rd rate
 No timber

40.00 N 0° 02' W. on a random line bet. sec. 3 and 4
 Set temp 1/4 sec. cor.

80.20 Intersect N. l. l. of T₃₀N. S. 4 lks. N 89° 58' W. of the cor. of sec. 3, 4, 3B and 34^{recently estab. by me & described in Exterior Book "Y"} Thence S. line

South on a true line bet. sec. 3 and 4

Over level sandy land, through sage and greasewood brush undergrowth

32.10 Right bank of the De Nebito Wash. 25 ft. high. base

BOOK 2600

- N.E. and S.W.
- 32.60 Center of Wash. Course S.W.
- 33.20 Left bank of the De Nebeto Wash. 25 ft. high beam
N.E. and S.W.
- 40.20 Set a Cedar post 3 ft. long 3 ins. sq. with marked
stone 24 ins. in the ground for $\frac{1}{4}$ sec. cor. marked
 $\frac{1}{4}$ S 4 on W. face and S 3 on E. face.
Dig pits 18x18x12 ins N. and S. of post 3 ft. dist. and
raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high
W. of cor.
- 41.00 Leave level land beam N.E. and S.W. Enter rolling
land beam N.E. and S.W. Ascend gently over
N.E. slope
- 80.20 The cor. of sees, 3, 4, 9 and 10, heretofore described.
Land level and rolling
Soil sandy 2nd and 3rd rate.
No timber

June 3rd 1909

- May 29th 1909 At 7^h 30^m a.m. ^{l.m.t.} set off. 35° 57' N.
on the lat. arc. 21° 36' N. on the decl. arc. and determine
a meridian with the solar on the cor. of sees, 4, 5,
32 and 33, on the S. side of the Tp., recently estab. by me
and described in Exterior Book "V"
Thence I run
- N 0° 03' W. for sees, 32 and 33.
Descend N. slope over stony land, through heavy
pinon pine and cedar timber
- 9.50 Dry rocky ravine Course N.E., Leave stony land
beam N.E. and S.W., Ascend S.E. slope.
- 19.50 Top of sand ridge beam N.E. and S.W. desc.
- 24.00 Dry ravine Course N.E. asc.
- 26.50 Top of sand ridge beam N.E. and S.W. desc.
- 27.50 Dry ravine Course N.E. asc.
- 28.00 Top of ridge beam E and W, desc.
- 40.00 Set an iron post 3 ft. long 1 in. in diam, 26 ins. in the
ground for $\frac{1}{4}$ sec. cor. marked on brass cap $\frac{1}{4}$ S 32
on W. half and S 33 on E. half, from which
A Cedar 8 ins. in diam, beam N. 72 $\frac{1}{2}$ ° E 274 lbs. dist
marked $\frac{1}{4}$ S 33 B.T.
- No other trees suitable for bearing trees available
Dig pits 18x18x12 ins N. and S. of post 3 ft. dist. and
raise a mound of earth 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high

chains

- 53.00 W of cor. Leave timber bears N.W. and S.E.
Dry sand wash 30 lbs. wide 3ft deep course N.W.
Ascend S.W. slope
- 80.00 Set an iron post 3ft long 2 ins. in diam. 24 ins. in the ground for cor. of sec. 28, 29, 32 and 33 marked on brass cap. T 30 N, S 29 in N.W. R 16 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 1/2 ft. deep and raise a mound of earth 4 ft. base 2 ft. high. W. of cor.
Land hilly.
Soil sandy and stony 3rd and 4th rate
Timber pinion pine and cedar
- 40.00 S 89° 59' E on a random line bet. sec. 28 and 33
Set temp 1/4 sec. cor.
- 80.08 Intersect N and S. line 3 lbs. S. of the cor. of sec. 27, 28, 33 and 34 ^{heretofore described} Thence Drive
Work on a true line bet. sec. 28 and 33
Over hilly sandy land through scattering pinion pine and cedar timber and bunch grass.
- 1.50 Dry ravine 10 lbs wide course S.E. asc.
- 14.00 Top of high sand ridge bears N.E. and S.W. desc.
- 29.50 Dry ravine course N. asc.
- 40.04 Set an iron post 3ft long 2 ins. in diam. 26 ins. in the ground for 1/4 sec. cor. marked on brass cap. 1/4 S 28 on N. half and S 33 on S. half., from which, A pinion pine 12 ins. in diam. bears N. 56° E 106 lbs. dist. marked 1/4 S. 28 B.T.
A pinion pine 4 ins. in diam. bears S 39 1/2° E 127 lbs. dist. marked 1/4 S 33 B.T.
- 41.00 Top of rocky spur, bears N. and S. desc. abruptly over rock ledge 15 ft. high.
- 43.00 Dry ravine course course North. asc.
- 56.00 Top of ridge bears N.E. and S.W. desc steeply.
- 61.00 Leave timber bears N.E. and S.W.
- 80.08 The cor. of sec. 28, 29, 32 and 33, heretofore described.
Land hilly.
Soil sandy and stony 3rd and 4th rate.
Timber pinion pine and cedar

BOOK 2600

- No° 03' W. bet. sec 28 and 29
 Descend N.W. slope over rolling sandy land through
 sage and greasewood bush and bunch grass
 40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins.
 in the ground for $\frac{1}{4}$ sec. cor. marked on brass
 cap $\frac{1}{4}$ S. 29 on W half and S 28 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.
- 60.10 Dry sand wash 75 lbs wide 10 ft. deep course
 W. W.
- 61.90 Dry sand wash 100 lbs. wide 10 ft. deep course
 E. W.
- 68.00 Dry sand wash 50 lbs. wide 6 ft. deep course
 S. W. are S. E. slope.
- 80.00 Set an iron post 3 ft. long 2 ins. in diam. 24 ins.
 in the ground for cor. of sec. 20, 21, 28 and 29,
 marked on brass cap. T 30 N. S 20 in N.W. R 16 E.
 S 21 in N.E. S 28 in S.E. and S 29 in S.W. quadrants.
 Dig pits 18x18x12 ins in each sec. 5 $\frac{1}{2}$ ft. dia. and
 raise a mound of earth 4 ft. base, 2 ft. high W. of
 cor.
 Land rolling
 Soil sandy and stony 3rd and 4th rate.
 No timber
 At this cor. I set off 21 $\frac{1}{2}$ 37' N. on the decl. arc and
 at noon observed the sun on the meridian, the
 resulting latitude being 35° 58 $\frac{1}{2}$ '.
-
- East on a random line bet. sec. 21 and 28.
 40.00 Set temp $\frac{1}{4}$ sec. cor.
 79.94 Intersect N and S. line 3 lbs. N. of the cor. of sec.
 21, 22, 27 and 28. ^{here before described.} Hence D run.
 N 89° 59' W. on a true line bet. sec. 21 and 28.
 Descend N.W. slope over rolling sandy land through
 scattering sage and greasewood brush undergrowth
 and bunch grass.
- 21.50 Dry sand wash 30 lbs. wide 2 ft. deep. course S.W.
- 39.97 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the
 ground for $\frac{1}{4}$ sec. cor. marked on brass cap $\frac{1}{4}$ S 21
 on N. half and S 28 on S. half.

Chains

- Dig pits 18x18x12 ins. E and W. of post. 3 ft. dia. and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
- 51.50 Dry runnel 30 lbs. wide 1 ft. deep course South.
- 69.50 Dry runnel course south. ascend gradually over E. slope
- 79.94 The cor. of sec. 20, 21, 28 and 29, heretofore described.
Land rolling,
Soil sandy 3rd rate,
No timber
-
- N $0^{\circ}03'$ W. bet. sec. 20 and 21
Ascend gradually over S. slope through sage and greasewood brush undergrowth and bunch grass
- 10.00 Enter scattering pinon pine and cedar timber bears E and W.
- 27.00 Begin steep rocky ascent.
- 36.75 Top of steep ascent, ascend gradually.
- 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 20 on W half and S 21 on E half, from which
A pinon pine 18 ins. in diam., bears S $74^{\circ}4'$ E 51 lbs. dist. marked $\frac{1}{4}$ S 21 B.T.
A pinon pine 12 ins. in diam., bears S $41\frac{1}{2}^{\circ}$ W 93 lbs. dist. marked $\frac{1}{4}$ S 20 B.T.
- 44.00 Top of high sand ridge bears E and W. desc steeply.
- 48.00 Leave sandy land bears NW. and S.E. Enter stony land bears NW. and S.E.
- 74.00 Leave stony land bears N.E. and S.W. Enter 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. 16, 17, 20 and 21 marked on brass cap. T 30 N S 17 in NW R 16 E S 16 in N.E. S 21 in S.E. and S 20 in S.W. quadrants from which.
A cedar 6 ins. in diam., bears N $26\frac{1}{2}^{\circ}$ E 51 lbs. dist. marked T 30 N. R 16 E S 16 B.T.
A cedar 6 ins. in diam bears S $40\frac{1}{2}^{\circ}$ E 246 lbs. dist. marked T 30 N R 16 E S 21 B.T.

BOOK

2600

A Cedar 4 ins. in diam. bears $S 10^{\circ} W$ 130 lks. dist. marked T 30 N, R 16 E S 20 B.T. and

A Cedar 4 ins. in diam. bears $N 75^{\circ} W$ 79 lks. dist. marked T 30 N, R 16 E S 17 B.T.

Land rolling and hilly.

Soil sandy and stony 3rd and 4th rate.

Timber prairie pine and cedar.

$S 89^{\circ} 59' E$ on a random line bet. sec. 16 and

21.

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

80.02 Intersect N. and S. line 3 lks N. of the cor. of sec. 15, 16, 21 and 22, heretofore described.

Thence from

$N 89^{\circ} 58' W$, on a true line bet. sec. 16 and 21

Descend S.W. slope over hilly sandy land through prairie pine and cedar timber

1.50 Dry ravine course N.W. asc.

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

17.00 Dry ravine course N.W. asc.

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

35.00 Dry ravine course N.W. asc.

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

40.01 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked out brass

Cap $\frac{1}{4}$ S 16 on N. half and S 21 on S. half, from which

A Cedar 5 ins. in diam. bears $N 77^{\circ} W$ 107 lks. dist. marked $\frac{1}{4}$ S 16 B.T.

A Cedar 6 ins. in diam bears $S 4^{\circ} W$ 123 lks. dist. marked $\frac{1}{4}$ S 21 B.T.

42.50 Dry ravine course North asc.

44.00 Top of ridge bears N and S. desc.

63.00 Dry ravine course North asc.

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

76.00 An Indian Hogan bears South 80 lks. dist.

78.00 An Indian Hogan bears South 100 lks. dist.

80.02 The cor. of sec. 16, 17, 20 and 21, heretofore described.

Land hilly.

Soil sandy 3rd rate.

Timber prairie pine and cedar

Chains

May 29th 1909

June 4th 1909. Ab. 8^h 30^m a.m. ^{l.m.t.} D set. of 35° 59' N.
on the lat. arc. 22° 25 1/2' N on the decl. arc, and
determine a meridian with the solar on the
cor. of sees 16, 17, 20 and 21, heretofore described,
Thence I run

N 0° 03' W. bet. sees. 16 and 17.

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

5:00 Leave timber bear N.E. and S.W.

40:00 Set a cedar post 3 ft. long 3 ins. sq. with marked
stone 24 ins. in the ground for 1/4 sec. cor. marked
1/4 S. 17 on W. face and S 16 on E. face, from which
a cedar 5 ins. in diam bear. S 62 1/2° E 67 lks. dist.
marked 1/4 S. 16 B.T.

No other trees available.

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.

40:50 Dry ravine 75 lks. wide 2 ft. deep course W. and

52:00 Top of sand ridge bears NE and S.W. desc NW
slope.

80:00 Set an iron post. 3 ft. long 2 ins. in diam. 24
ins. in the ground for cor. of sees. 8, 9, 16 and
17, marked on brass cap. T 30 71 S 8 in NW,
R 16 E. S 9 in NE. S 16 in SE. and S. 17 in SW.
quadrant.

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

Land hilly

Soil sandy 3rd rate.

Timber pinion pine and cedar.

S 89° 58' E over random line bet. sees 9 and 16.

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

80:04 Intersect N and S. line 3 lks. N. of the cor. of
sees. 9, 10, 15 and 16 ^{heretofore described} Thence I run

N 89° 57' W on a true line bet. sees. 9 and 16

BOOK

2600

- Descend S.W. slope of ridge over sandy land through scattering sage and greasewood brush, undergrowth and bunch grass.
- 1.20 Road to Tuba, Arizona, bears N.W. and S.E.
- 4.50 Dry sand wash 30 lvs. wide, 2 ft deep. course N.W. ascend N.E. slope of ridge
- 28.00 Top of sand ridge bears N.W. and S.E. desc.
- 38.00 Foot of descent in depression. bears N.W. and S.E. drains N.W. Enter prairie pine and cedar timber bears N.W. and S.E. ascend N.E. slope of sand ridge.
- 40.02 Set a Cedar post 3 ft long 3 ins. sq. 24 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ S 9 on N. face and S 16 on S. face, from which a cedar 5 ins. in diam. bears $N 76\frac{1}{2}^{\circ} W 127$ lvs. dist. marked $\frac{1}{4}$ S 9 B.T.
- A cedar 10 ins in diam. bears $S 48\frac{1}{4}^{\circ} E 151$ lvs. dist. marked $\frac{1}{4}$ S 16 B.T.
- 42.00 Top of sand ridge bears N and S. desc.
- 74.00 Leave timber bears N and S.
- 80.04 The cor. of sees 8, 9, 16 and 17, hereinbefore described.
- Land hilly
Soil sandy 3rd rate.
Timber prairie pine and cedar.
- On this cor. I set off $22^{\circ} 26'$ N. on the decl. arc and at noon observe the sun on the meridian the resulting latitude being $36^{\circ} 00'$ N.
-
- $N 0^{\circ} 03' W$, bet. sees. 8 and 9.
- Descend N.W. slope over rolling sandy land through scattering sage and greasewood brush and bunch grass.
- 30.00 Foot of descent, leave rolling land bears N.E. and S.W. enter level land bears N.E. and S.W.
- 39.05 Left bank of the De Nebeto Wash 20 ft high bears N.E. and S.W.
- 40.00 The point for the $\frac{1}{4}$ sec. cor. falls in the bottom of the De Nebeto Wash. where natural causes would insure the destruction of the corner therefore an.
- 38.50 Set a Cedar post 3 ft long 3 ins. sq. 24 ins. in the ground for witness cor. to the $\frac{1}{4}$ sec. cor.

Chains

marked W.C. $\frac{1}{4}$ S 8 on the W. face and S 9 on E. face.

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.

- 42.50 Center of De Nebito Wash. dry. course S W
 - 46.10 Right bank of the De Nebito Wash 20 ft. high bears N.E. and S.W. thence on level bottom land.
 - 46.50 Road to Blue Canyon Ariz bears E and W.
 - 53.10 Right bank of Sand Wash. bears N.W. and S.E. thence in dry bed of wash.
 - 60.00 Right bank of Wash 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 brass cap. T 30 N 35 in N.W. R 16 E S 4 in N.E. S 9 in S.E. and S 8 in S.W. quadrant.
- Dig pits 18x18x12 ins. in each. sec. 5 $\frac{1}{2}$ ft. dia. and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
- Land rolling and level.
Soil sandy 2nd and 3rd rate.
No timber

- 40.00 Set temp $\frac{1}{4}$ sec. cor.
- 79.98 Intersect N and S line 2 lbs. S. of the cor. of sec. 3, 4, 9 and 10, hereinbefore described,
Thence I run

N 89° 58' W. on a true line bet. sec. 4 and 9. Around E slope of sand ridge over hilly sandy land through scattering sage brush and bunch grass

- 6.00 Top of sand ridge bears N and S. desc. W. slope
 - 39.00 Foot of descent, leave hilly land bears N.E. and S.W. enter level bottom land
 - 39.99 Set a cedar post 3 ft. long 3 ins. sq with marked stone 24 ins in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ S 4 on N. face and S 9 on S. face.
- Dig pits 18x18x12 ins. E and W. of post 3 ft. dia. and raise a mound of earth 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high N. of cor

BOOK 2600

58.35 Left bank of the De Nebito Wash 20 ft. high. from N.E. and S.W.
 59.20 Center of dry bed of Wash course S.W.
 60.15 Right bank of the De Nebito Wash. 20 ft. high from N.E. and S.W. thence on level bottom land
 79.98 The cor. of secs. 4, 5, 8 and 9, heretofore described. Land level and hilly. Soil sandy 2nd and 3rd rate. No timber

N 0° 03' W. on a random line bet. secs. 4 and 5.
 40.00 Set temp $\frac{1}{4}$ sec. cor.
 80.28 Intersect N. side of Twp. 3 lks. N. 89° 58' W. of the cor. of secs. 4, 5, 32 and 33, recently estab. by me & described in Exterior Book "Y" Thence I run
 S 0° 02' E on a true line bet. secs. 4 and 5
 Ascend N.W. slope of ridge over hilly land.
 1.00 Top of rocky ridge from N.E. and S.W. desc. gradually over S.W. slope
 30.00 Foot of descent, leave hilly land from N.W. and S.E. Enter level bottom land from N.W. and S.E.
 40.78 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. $\frac{1}{2}$ S 5° W half and S 4° on E half. Dig pits 18x18x12 ins N and S. of post. 3 ft. dist. and raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high W. of cor.
 80.28 The cor. of secs. 4, 5, 8 and 9, heretofore described. Land level and hilly. Soil sandy and stony 2nd 3rd and 4th rates. No timber

June 4th 1909

May 31st 1909. Ab. 7^h 15^m a.m. l.m.t. S sep off. 35° 57' N. on the lat. arc. 21° 54' N. on the decl. arc. and determine a meridian with the solar at the cor. of secs. 5, 6, 31 and 32 on the S. side of the Twp, recently estab. by me & described in Exterior Book "V" Thence I run
 N 0° 3' W. bet. secs. 31 and 32.
 Ascend steep rocky S.E. slope over hilly land through

Chains

- scattering pinion pine and cedar timber and bunch grass.
- 2.00 Top of ascent on point of mesa toward N.E. and S.W. Leave hilly stony land toward N.E. and S.W., enter rolling sandy mesa land.
- 10.00 North edge of point of mesa, leave rolling land toward N.W. and S.E., descend abrupt rocky N. slope over broken hilly land toward N.W. and S.E.
- 13.50 Leave stony land toward N.W. and S.E., enter sandy land toward 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 31° 0' W face and S 32° on E. face from which.
A cedar 5 ins. in diam toward N 9° 30' E. 269 lbs. dist. marked $\frac{1}{4}$ S. 32 B.T.
A cedar 12 ins. in diam, toward N. 43 $\frac{1}{2}$ ° W 285 lbs. dist. marked $\frac{1}{4}$ S. 31 B.T.
- 76.00 Leave timber toward 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 secs. 29, 30, 31 and 32. marked on brass cap. T 30 N. S. 30 in N.W. R 16 E. S. 29 in N.E. S 32 in S.E. and S 31 in S.W. 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 rolling and hilly.
Soil sandy and stony 3rd and 4th rate.
Timber pinion pine and cedar
-
- 40.00 S 89° 59' E on a random line bet. secs. 29 and 32 Set temp. $\frac{1}{4}$ sec. cor.
- 79.92 Intersect N. and S. line 3 lbs. S. of the cor. of secs. 28, 29, 32 and 33; heretofore described,
Three Drum
Went out at true line bet. secs. 29 and 32.
Descend gradually over N.W. slope, through sage brush undergrowth and bunch grass.
- 35.00 Dry sand wash 100 lbs. wide 5 ft. deep. Course N.W.
- 39.96 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.

BOOK 2600

1/4 S 29 on N. face. and S 32 on S. face
Dig pits 18x18x12 in E and W. of post 3 ft. dia. and
raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high. N.
of cov.

59.00 Dry sand wash 50 lbs. wide 4 ft. deep. Course N.E.

79.92 The cov. of secs. 29, 30, 31 and 32, heretofore described.

Land rolling.

Soil sandy 3rd rate.

No timber

N 89° 59' W. on a random line bet. sec. 30 and 31

40.00 Set temp 1/4 sec. cov

49.52 Intersect W. dry of Twp at the cor. of secs. 25, 30, 31
and 36, recently estab. by me & described in Exterior Book "X"

Turned Drum

S 89° 59' E on a true line bet. sec. 30 and 31

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

32.00 Enter scattering fir, low pine and cedar timber
bear N.E. and S.W.

39.52 Set an iron post 3 ft. long 1 in in diam 26 ins. in
the ground for 1/4 sec. cov. marked on brass cap.
1/4 S 30 on N. half and S 31 on S half, from which
A cedar 5 ins. in diam. bears N 69° 15' E. 76 lbs dia.
marked 1/4 S. 30 B.T.

A cedar 8 ins. in diam. bears S 56° E 72 lbs dia.
marked 1/4 S. 31 B.T.

49.20 Foot of rocky knoll bears N. and S. ascend steep W
slope, over hilly land

51.00 Top of knoll. bears N. and S. desc. N.E. slope.

52.20 Foot of descent. bears hilly land and timber bears

N. and S. enter rolling sandy land bears N. and S.

79.52 The cov. of secs. 29, 30, 31 and 32, heretofore described.

Land rolling and hilly.

Soil sandy and stony 3 and 4th rate.

Timber fir, low pine and cedar

NOTE

At the cor. of secs. 29, 30, 31 and 32, ^{heretofore described.} set off 21° 55' N. on
the decl. arc. and at 11^h 57^m 28^{sec.} am. could observe the
sun on the meridian the resulting latitude being 35° 57 1/2' N.

Chaus

39

N 8° 03' W, bet. secs. 29 and 30.

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

40.00 Set an iron post 3 ft. long 1 in in diam, 26 in in the ground for $\frac{1}{4}$ sec. cov. marked on brass cap. 1/4 S. 30 on W. face and S 29 on E. faceDig pits 18x18x12 in N and S. of post 3 ft. dia. and raise a mound of earth 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high W. of cov.

80.00 Set an iron post 3 ft. long 2 in in diam 24 in in the ground for cov. of secs. 19, 20, 29 and 30, marked on brass cap. T 30 N. S 19 in N.W. N 16 E S 20 in N.E. S 29 in S.E. and S 30 in S.W. quadrants

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

East on a random line bet. secs. 20 and 29.

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

79.90 Intersect N. and S. line 5 lbs. N. of the cov. of secs. 20, 21, 28 and 29, heretofore described,

Thence Drive

N 89° 58' W, on a true line bet. secs. 20 and 29.

Over rolling sandy land. Slopes to S.W. through sage and greasewood brush and bunch grass

33.00 Dry sand wash 30 lbs. wide, 2 ft. deep course S.W.

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

39.96 Set a cedar post 3 ft. long 3 in. sq. with marked stone 24 in. in the ground for $\frac{1}{4}$ sec. cov. marked $\frac{1}{4}$ S 20 on N. face and S 29 on S. face.Dig pits 18x18x12 in. 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 cov.

64.00 Dry sand wash 120 lbs. wide 3 ft. deep course N.W.

72.50 Dry sand wash 50 lbs. wide 2 ft. deep course N.W.

40

Chains

BOOK 2600

79.90

The cov of sec. 19. 20. 29 and 30, heretofore described.
Land rolling.
Soil sandy 3rd rate.
No timber

40.00

N 89° 54' W. on a random line bet. sec. 19 and 30
Set temp $\frac{1}{4}$ sec. cov.

79.36

Intersect W. ldy of Tps 8 lkw. S. of the cov. of sec.
19. 24. 25 and 30, recently estab. by me and described in
Thence Drum Exterior Book "X"

S 89° 56' E on a true line bet. sec. 19 and 30

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

39.36

Set an iron post 3 ft. long 1 in in diam. .26 in.
in the ground for $\frac{1}{4}$ sec. cov. marked on brass cap
 $\frac{1}{4}$ S 19 on N. half and S 30 on S. half

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

79.36

The cov. of sec. 19. 20. 29 and 30, heretofore described.
Land rolling
Soil sandy 3rd rate
No timber

May 31st 1909

June 5th 1909
At 7^h 30^m A.M. ^{l.m.t.} set off 35° 59' N. on the
lat. arc. 22° 32' N. on the decl. arc. and determine a
meridian with the solar at the cov. of sec. 19. 20. 29
and 30, heretofore described,

Thence Drum

N 90° 03' W. bet. sec. 19 and 30

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

8.00

Dry sand wash 100 lbs. wide 6 ft. deep course N.W.

40.00

Set an iron post 3 ft. long 1 in in diam. .26 in. in
the ground for $\frac{1}{4}$ sec. cov. marked on brass cap, $\frac{1}{4}$ S.
19 on W half and S 30 on E half.

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

Chains

64.00 Top of sand ridge bears E and W. desc. N. slope
 80.00 Set an iron post 3 ft. long 2 ins. in diam, 24 ins. in the ground for cor. of secs 17, 18, 19 and 20 marked on brass cap. T 30 N. S 18 in NW, N 16 E. S 17 in NE, S 20 in SE. and S 19 in SW. quadrants. Dig pits 18 x 18 x 12 ins in each sec. 5 1/2 ft. dia and raise a mound of earth 4 ft. base 2 ft. high. W. of cor
 Land rolling,
 Soil sandy 3rd rate.
 No timber

S 89° 58' E on a random line bet. secs 17 and 20
 40.00 Set temp. 1/4 sec. cor.
 79.94 Intersect N and S. line 10 lbs N. of the cor of secs 16, 17, 20 and 21, heretofore described,
 Three Drum

N 89° 54' W. on a true line bet. secs 17 and 20. Ascend SE. slope of ridge over hilly sandy land through scattering cedar timber
 10.50 Top of sand ridge bears NE and SW. desc NW. slope
 25.00 near timber bears NE. and SW.

26.00 Dry ravine 10 lbs. wide 2 ft. deep course NW. Run hilly land bears NE. and SW., Enter rolling land bears NE. and SW.
 39.97 Set a cedar post 3 ft. long 3 ins. sq. with marked stone 24 ins. in the ground for 4 sec. cor. marked 1/4 S 17 on N. face, and S 20 on S. face, 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.

79.94 The cor. of secs 17, 18, 19, and 20, heretofore described. Land rolling and hilly. Soil sandy 3rd rate. Timber Cedar.

N 89° 56' W. on a random line bet. secs 18 and 19.
 40.00 Set temp. 1/4 sec. cor.

BOOK 2600

- 79.20 Intersect W. ldy of $\frac{1}{4}$ Sec. 2 lks. N. of the cor. of
Secs. 13, 18, 19 and 24, recently estab. by me & described
in Exterior Book "X"
Thence down
S $89^{\circ} 57' E.$ on a true line bet. Secs. 18 and 19,
Over level sandy bottom land through sage and
greasewood brush undergrowth and bunch grass.
- 39.20 Set a cedar post 3 ft. long 3 ins. sq. with marked
stone 24 ins. in the ground for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ S 18 on N. face and S 19 on S. face.
Dig pits 18x18x12 ins. E and W. of post. 3 ft. diam.
and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft.
high N. of cor.
- NOTE On this cor. I set off $22^{\circ} 33' N.$ on the decl. arc
and at 11^h 58^m am. l.m.t. observe the sun on the
meridian, and obtain on the lat. arc a reading of
 $35^{\circ} 59' N.$
- 45.00 Leave level land bears N.E. and S.W., Enter rolling
land bears N.E. and S.W. are N.W. slope.
- 79.20 The cor. of Secs. 17, 18, 19 and 20, heretofore described.
Land level and rolling.
Soil sandy 2nd and 3rd rate.
No timber
-
- W $0^{\circ} 03' W.$ bet. Secs. 17 and 18
Descend N.W. slope over rolling sandy land through
sage and greasewood brush undergrowth and bunch
grass
- 22.00 Foot of descent, leave rolling land bears N.E. and S.W.
Enter level land bears N.E. and S.W.
- 40.00 Set a cedar post 3 ft. long 3 ins. sq. with marked stone 24
ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ S 18 on W.
face and S 17 on E. face.
Dig pits 18x18x12 ins. N and S. of post. 3 ft. diam. and
raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of
cor.
- 56.70 Right bank of the De Nebito Wash, 20 ft. high. bears N.E.
and S.W.
- 58.20 Center of dry bed of Wash Course S.W.
- 59.00 Right bank of the De Nebito Wash 20 ft. high bears
N.E. and S.W., thence over level land
- 80.00 Set an iron post 3 ft. long, 2 ins. in diam 24 ins.

Chamie

in the ground for cor. of secs 7, 8, 17 and 18, marked
 on brass cap T 30 on S 7 in N.W., T 16 E S 8 in N.E., S 17 in
 S.E. and S 18 in S.W. quadrants.

Dig pits 18 x 18 x 12 ins. in each. sec. 5 1/2 ft. dia.
 and raise a mound of earth 4 ft. base, 2 ft.
 high. W. of cor.

Land level and rolling
 Soil sandy 2nd and 3rd rate.
 No timber.

S 89° 54' E on a random line between S and 17,
 40.00 Set temp. 1/4 sec. cor.

79.90 Intersect N and S. line 5 lbs. N. of the cor. of secs 8
 9, 16 and 17, hereinafter described,

Thence / Drun

N 89° 52' W. on a true line bet. secs. 8 and 17

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

30.00 Foot of gradual descent, level rolling land.
 bear N.E. and S.W. Enter level sandy and adobe
 bottom land bear N.E. and S.W.

39.98 Set a cedar post 3 ft. long, 3 ins. sq. with marked
 stone 24 ins. in the ground for 1/4 sec. cor,
 marked 1/4 S 8 on N face and S 17 on S face.
 Dig pits 18 x 18 x 12 ins. E and W. of post 8 ft. dia.
 and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft.
 high. N. of cor.

57.78 Rgn. bank of the De Nebito Wash. 2 ft. high. bear N.E.
 and S.W.

59.50 Center of dry bed of wash. course S.W.

61.25 Right bank of the De Nebito Wash 20 ft. high.
 bear N.E. and S.W., thence over level land.

79.90 The cor. of secs 7, 8, 17 and 18, hereinafter described.
 Land level and rolling.
 Soil sandy and adobe 2nd and 3rd rate.
 No timber

BOOK 2600

N 89° 57' W. on a random line bet. sec 7 and 18.
 40.00 Set temp. 1/4 sec. cor.
 79.18 Intersect W. ldy. of Twp. 30 N. S. of the cor. of sec.
 7, 12, 13 and 18, recently estab. by me & described in Exterior
 Book "X"
 Thence Run
 S 89° 56' E. on a true line bet. sec 7 and 18
 Ascend steeply over S.W. slope of point of mesa
 through scattering sage and greasewood bush.
 undergrowth and bunch grass.
 8.00 Top of ascent on W. edge of mesa bears N.W. and S.E.
 Continue gradual ascent.
 32.00 Top of mesa bears N.W. and S.E. desc. steeply over
 E. slope
 39.18 Set a cedar post 3 ft. long 3 in. sq. with marked
 stone 24 ins. in the ground for 1/4 sec. cor. marked
 1/4 S 7 on W. face and S 18 on S. face.
 Raise a mound of stone 2 ft. base, 1 1/2 ft. high N. of cor.
 Pits impracticable
 44.00 Foot of descent, leave hilly stony land bears N. and S.
 Enter level sandy bottom land bears N. and S.
 79.18 The cor. of sec 7, 8, 17 and 18, heretofore described.
 Land level and hilly.
 Soil sandy and stony 3rd and 4th rate.
 No timber

June 5th 1909

1909
 June 7th At 8^h 00^m a.m. ^{cont.} Set off. 36° 00' N. on the lab.
 arc. 22° 45' N. on the decl. arc. and determine a
 meridian with the solar at the cor. of sec.
 7, 8, 17 and 18, heretofore described,
 Thence Run
 N 0° 03' W. bet. sec 7 and 8.
 Over level sandy land through sage and greasewood
 bush undergrowth and bunch grass.
 40.00 Set a cedar post 3 ft. long 3 in. sq. with marked
 stone 24 ins in the ground for 1/4 sec. cor. marked
 1/4 S 7 on W. face and S 8 on E. face.
 Dig pits 18 x 18 x 12 ins, N. and S. of post; 3 ft. dish
 and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft.
 high W. of cor.
 53.50 Road to Tuba, Arizona, bears N.W. and S.E.

Chains

61.00 Leave level land bears N.W. and S.E. enter broken stony land and scattering cedar timber bears N.W. and S.E. ascend S.W. slope

61.50 Top of sand stone ledge 20 ft. high bears N.W. and S.E. Continue gradual ascent over S.W. slope

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 16 E 35 in N.E. 38 in S.E. and 37 in S.W. quadrant, from which.
 A Cedar 8 ins. in diam. bears N 87° E 89 lbs. dist. marked T 30 N. R 16 E 35 B.T.
 A Cedar 6 ins. in diam. bears S 71½° E 156 lbs. dist. marked T 30 N. R 16 E 38 B.T.
 A Cedar 6 ins. in diam. bears S 43° W 209 lbs. dist. marked T 30 N. R 16 E 37 B.T. and
 A Cedar 5 ins in diam. bears N 86½° W 125 lbs. dist. marked T 30 N. R 16 E 36 B.T.
 Land hilly broken and level.
 Soil sandy and stony 2nd 3rd and 4th rates.
 Timber Cedar

40.00 Set temp 4 cor. cor.

79.88 Distances N. and S. line 18 lbs. S. of the cor. of sec. 4, 5, 8 and 9, herebefore described.
 Thence Draw
 We show a true line bet. sec. 5 and 8
 Over level sandy and adobe bottom land through sage and greasewood bush undergrowth and bunch grass

39.93 Set a cedar post. 3 ft. long 3 ins. sq. with marked stone 24 ins in the ground for 4 cor. marked 1/4 S 5 on N. face and S 8 on S. face
 Raise a mound of stone 2 ft. base 1½ ft. high. N. of cor.
 It's impracticable

41.30 Top of sandstone bluff 45 ft high. leave level land bears N.E. and S.W. ascend bluff over stony hilly land.

42.00 Top of bluff bears N.E. and S.W. ascend gradually

BOOK 2600

- 73.00 Top of high ridge bears N.E. and S.W., desc. steeply over N.W. slope
- 73.25 Enter Cedar timber bears N. and S.
- 79.86 The cor. of sees. 5, 6, 7, and 8, heretofore described. Land hilly and level.
Soil sandy adobe and stony, 2nd 3rd and 4th rate.
Number Cedar.
-
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 78.90 Intersect W. ldy. of Np. 18 lks. S. of the cor. of sees. 1, 6, 7 and 8, recently estab. by me & described in Exterior Book "X"
Thence S run
S 89° 48' E. on a true line bet. sees 6 and 7.
Descend E slope over rolling sandy land through sage and greasewood bush undergrowth and bunch grass.
- 5.00 Road to Blue Canyon Arizona bears N.W. and S.E.
- 9.00 Foot of descent in depression, bears N.W. and S.E. drain to S.E. ascend gradually over S.W. slope
- 33.50 Top of rocky ridge bears N and S. desc. Enter Cedar timber bears N and S.
- 38.90 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap $\frac{1}{4}$ S 6 on N half and S 7 on S half, from which.
A Cedar 8 ins. in diam. bears N 17 $\frac{1}{4}$ ° W 155 lks. dist. marked $\frac{1}{4}$ S 6 B.T.
A Cedar 4 ins. in diam. bears S 0 $\frac{1}{2}$ ° E 222 lks. dist. marked $\frac{1}{4}$ S 7, B.T.
- 56.40 Dry ravine course S. asc.
- 65.00 Bear sandy land bears N. and S. enter stony land bears N. and S.
- 78.90 The cor. of sees 5, 6, 7, and 8, heretofore described. Land broken and hilly.
Soil sandy and stony 3rd and 4th rate.
Number Cedar
- NOTE At this cor. set off 22° 45 $\frac{1}{2}$ ' N. on the decl. arc. and at noon observe the sun on the meridian the resulting latitude being 36° 1' N.

Subdivision of Twp. 30 N. R 16 E.

Chains

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- N¹⁰°03' W on a random line bet. sec. 5 and 6.
 40.00 Set temp $\frac{1}{4}$ sec. cor.
 80.20 Intersect N. bdy of Twp. 14 lks. 589⁵⁸° E of the cor. of sec 5, 6, 31 and 32, recently estab. by me & described in Exterior Book "Y"
 Thence Draw
 S⁰°09' E on a true line bet. sec. 5 and 6.
 Descend S. slope over broken stony hilly land, through scattering cedar timber
 9.00 Dry ravine Course S.W. ascend
 9.10 A spring flows E. 350 lks. dist.
 12.00 Top of rocky ridge bears E and W desc.
 25.00 Dry ravine Course W. asc.
 40.20 Set an iron post 3¹/₂ m long 1 in in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on brass caps $\frac{1}{4}$ S 6 on W half and S 5 on E half. from which
 A cedar 6 ins. in diam bears N 86 $\frac{1}{4}$ ° E 179 lks. dist marked $\frac{1}{4}$ S 5 B.T.
 A cedar 5 ins in diam. bears N 79° W 206 lks. dist. marked $\frac{1}{4}$ S. 6 B.T.
 This cor. is situated at top of ascent on rocky ridge bears E and W. desc
 41.75 Dry ravine Course S.W. ascend broken stony N.W. slope of point of mesa
 61.60 Top of point of mesa bears N.E and S.W. desc S.E. slope
 80.20 The cor. of sec. 5, 6, 7 and 8, heretofore described.
 Land broken and hilly
 Soil sandy and stony 3rd and 4th rate
 Timber Cedar.

June 7th 1909

General Description

This township contains nearly every variety of land from level to mountainous and the soil ranges from stony to sandy loam. The soil of the bottom land along the De Nebo Wash which is in the north western portion of the Twp. is of a rich sandy loam and will produce some kinds of crops without irrigation. The soil of the remaining portion of the township except the stony mountainous portions, can nearly all be

BOOK 2600

classified as 3rd rate. is covered with, sage and greasewood brush and bunch grass. This land is being farmed to some extent by the Navajo and Hopi Indians and produces crops without irrigation. The mesa portion of the township is covered with a scattering growth of pinion pine and scrub cedars, too small to be of any commercial value except for firewood and fence posts. —

The sandstone which in such quantities underlies the mesa is too soft to be of any commercial value as a building stone. No mineral was discovered in this township, but from the evidence discovered in the adjoining townships to the east and west it is quite probable that the mesas are all underlain by extensive beds of bituminous coal, but at a greater depth than found elsewhere. There is no living water in the township, however water can be developed by digging wells along the De Nebo Wash.

There are several Navajo Hogans in the township which are used during the winter seasons when the snows come to furnish water for their sheep, but at the present time these are deserted, there being no actual settlers in the township.

Ordway E. Blouh

U.S. Examiner of Surveys

June 7-1909

U.S. Examiner of Surveys
FINAL OATHS OF ~~DEPUTY SURVEYOR~~ AND HIS ASSISTANTS.
Same applies to Subdivisional Books A, B, G, J, M, N, O, P, Q, R, S, T and U.

LIST OF NAMES.

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

Examiner of Surveys
~~Deputy Surveyor~~, United States, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of The Subdivisional lines of Tps. 26 N., Rs. 16, 17 and 18 E., Tps. 29 N., R. 17 E. and Tps. 30 N., Rs. 15, 16, 17, 18 and 19 East, and of the survey and resurvey of the Subdivisional lines of Tps. 26 N., R. 19 E. and Tps. 29 N., R. 15, 16, 17, 18, 19 East of the Gila and Salt River Base and Meridian, Arizona.
showing the respective capacities in which they acted:

- Van L. White Chainman and Compassman
- Ralph T. Westraud & Lafayette Jennings Chainman.
- Jay E. Jellick & Chas. L. Shumway Chainman.
- Charles L. Shumway Moundman & Harry J. Hassler Moundman.
- Arthur A. Beard Chainman & Henry Jennings Moundman & W.A. Swaffer Chainman & Moundman.
- Lafayette Jennings Axman & Chas. L. Shumway Axman & Arthur A. Beard Axman.
- Sam R. Longestewa and Charles A. Dutton Axman.
- Harry Lake Nay Flagman & Compassman & Jay E. Jellick Flagman & Felix Manning Flagman.
- R.E. Claborn Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Sidney E. Blout

Examiner of Surveys
~~Deputy Surveyor~~, United States, in surveying or resurveying all those parts or portions of the Subdivisional lines of Townships 26 North of Ranges 16, 17, 18 and 19 East, and Tps. 29 and 30 North, Rs. 15, 16, 17, 18 and 19 East,

of the Gila and Salt River Base & Meridian, within the Territory of Arizona, which are represented

and notes in Sub. books A, B, G, J, M, N, O, P, Q, R, S, T and U in the foregoing field notes, as having been surveyed, and resurveyed by him and under his direction; and that said surveys and resurveys have been in all respects, to the best of our knowledge and belief, well and faithfully executed and the corner monuments established or reestablished according to the instructions furnished by the United States Surveyor General

of the General Land Office

- Lafayette Jennings and Van L. White - Compassman and Chainman.
- Ralph T. Westraud and Chas. L. Shumway Chainman.
- W.A. Swaffer and Jay E. Jellick Chainman & Moundman.
- Fred L. Harney Chainman & Moundman & Chas. L. Shumway & Harry J. Hassler Moundman.
- Lafayette Jennings Axman & Charles A. Dutton Axman.
- Arthur A. Beard Axman & Chas. L. Shumway Axman & Flagman.
- Harry Lake Nay Flagman & Compassman & Jay E. Jellick Flagman & Axman.
- Felix Manning and R.E. Claborn Flagmen.
- Henry Jennings Moundman.

Subscribed and sworn to before me this 11th day of June 1909

Sidney E. Blout
U.S. Examiner of Surveys



BOOK 2600

EXAMINER OF SURVEYS
FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.
Same applies to Subdivisional Books M, N, O, P, Q, R, S, T and U

I, Sidney E. Blout, United States ^{Examiner of Surveys} ~~Deputy Surveyor~~, do solemnly swear that, in pursuance of ^{Special Instructions} ~~the Manual for~~ received from the ^{Commissioner of the "General Land Office"} ~~United States Surveyor General for~~, bearing date of the 2nd day of Oct. 1907 ~~day of~~ and the 15th day of May, 1908, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the ^{Commissioner} ~~United States Surveyor General for~~ of the ^{"General Land Office"} ~~"General Land Office"~~, the Manual of Surveying Instructions, and the laws of the United States, surveyed, ^{or resurveyed} ~~or resurveyed~~ all those parts or portions of the Subdivision lines of Township No. 29 and 30 North of Ranges No. 15, 16, 17, 18 and 19 East

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

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

Subscribed by said Sidney E. Blout, and sworn to before me }
this 12th day of December, 1909.
Further sworn to before me
by Sidney E. Blout, U.S. Surveyor
this 28th day of March, 1911.

W. H. Burbage
Notary Public

Frank A. Ingalls
U.S. Surveyor General for Arizona.
APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona **APR 25**, 1914

The foregoing field notes of the survey of the Subdivision lines of
Township 30 North, Range 16 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} ~~his contract No.~~, dated Oct. 2, 1907 and May 15th, 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 A. 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.