

Subdivisional
BOOK "ZR"

2622

91
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BOOK 2622

FIELD NOTES

OF THE SURVEY OF THE

Subdivision lines of Tps 31 N. R. 16 E -

Series of horizontal dashed lines for handwritten notes.

Of the *Gila and Salt River Bas. 2d* Meridian,

in the Territory of Arizona

EXECUTED
AS SURVEYED BY

Sam L. White, U.S. Surveyor, United States Deputy Surveyor,

Special Instructions from the Commissioner of the General Land Office

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

Survey commenced *March 28th*, 1911

Survey completed *April 10th*, 1911

NAMES AND DUTIES OF ASSISTANTS.

T. G. White	Chairman
Richard L. Shumway	Chairman
George B. Seig	Moundman
Herbert Yestewg	Moundman
Nelson Polacca	Axman
Earl Albright	Axman
William R. Carson	Flagman

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Book No. 2622

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PRELIMINARY OATHS OF ASSISTANTS.

WE, T. Y. White and Richard L. Shumway
 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 the Subdivision lines of Tp 31 N. R. 16 E. G. & S. P. B. & M., Arizona.

T. Y. White, Chainman.
Richard L. Shumway, Chainman.

Subscribed and sworn to before me this 24th
 day of March, 1911



Van L. White
 U.S. Transitman

WE, George B. Seig and Herbert Yestewa
 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 the Subdivision lines of Tp 31 N. R. 16 E. G. & S. P. B. & M., Arizona.

George B. Seig, Moundman.
Herbert Yestewa, Moundman.

Subscribed and sworn to before me this 24th
 day of March, 1911



Van L. White
 U.S. Transitman

WE, Nehon Polacca and Carl Albright
 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 the Subdivision lines of Tp 31 N. R. 16 E. G. & S. P. B. & M., Arizona.

Nehon Polacca, Axman.
Carl Albright, Axman.

Subscribed and sworn to before me this 24th
 day of March, 1911



Van L. White
 U.S. Transitman

I, William R. Carson, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the Subdivision lines of Tp 31 N. R. 16 E. G. & S. P. B. & M., Arizona.

William R. Carson, Flagman.

Subscribed and sworn to before me this 24th
 day of March, 1911



Van L. White
 U.S. Transitman

Survey commenced March 28th 1911, and executed with a W. & L. E. Gurley engineer transit No. 76, with a Burt solar attachment. The horizontal limb is provided with one double vernier reading to single minutes of arc. The verniers of the latitude and declination arcs read to 0'30" of arc.

I examined the adjustments of the transit and find them correct and know from recent tests of the solar apparatus by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, that the instrument is in satisfactory adjustment. For last complete test of the instrument see the field notes of the survey of the 4th Guide Meridian East through Twp 31 N., R. Ranges 16 and 17 East in Standard Book "U"

I begin at the cor. of secs. 12, 35, and 36, on S. 1/2 of Twp. ^{estab. by Sidney E. Blout, May 25, 1909} which is an iron post 3 ins. in diam. 12 ins. above ground, firmly set, marked on brass cap. T 16 E. in E. half. T 31 N. S 36 in N.E. T 30 N. S 1 in S.E. S 2 in S.W. and S 35 in N.W. quadrant with pits 18x18x12 ins. in each sec. 5 1/2 ft. dist. and a mound of earth 4 ft. base 2 ft. high. W. of cor. latitude. 36° 01' 54" N., longitude 110° 35' 27" W. At 7^h 05^m a.m. limb set off 36° 02' N. on the lat. arc. 2° 44 1/2' N. on the decl. arc and determine a meridian with the solar at the above described cor., thence I run,

N. 0° 01' W., 1/4 sec. 35 and 36,

Over rolling sandy land covered with sage and greasewood brush undergrowth and bunch grass

40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for cor. marked on brass cap. S 35 on W. half and S 36 on E. half.

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

53.30 Road to Navajo well 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 secs. 25, 26, 35 and 36. marked on brass cap. T 31 N S 26 in N.W.

Subdivision of Twp. 31 N., R 16 E.

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R 16 E S 25 in N.E., S 36 in S.E. and S 35 in S.W. quadrants.

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

Land rolling.

Soil sandy 3rd rate.

No timber

S 89° 58' E., on a random line, bet. secs. 25 and 36.

40.00 Set temp. 1/4 sec. cor.

79.96 Intersect the 4th Guide Meridian East, 5 lks. N. of the cor. of secs. 25, 30, 31 and 36, recently established by me as described in Standard Book "U", thence I run,

N. 89° 56' W., on a true line, bet. secs. 25 and 36,

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

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

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

79.96 The cor. of secs. 25, 26, 35 and 36, hereinbefore described.

Land rolling.

Soil sandy 3rd rate.

No timber

N. 0° 01' W., bet. secs. 25 and 26;

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

5.85 Left bank of the De Nebito Wash. 20 ft. high. bear N 45° E. and S 45° W. Leave undergrowth.

7.25 Right bank of the De Nebito Wash. 20 ft. high. bear N 45° E. and S 45° W. Enter level land and undergrowth bear N.E. and S.W.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for 1/4 sec. cor., marked on brass cap, 1/4 S 26 on W. half and S 25 on E. half; Dig pits 18x18x12 ins. N. and S. of post

Subdivision of T₃₁N., R16E.

Chains

60.00 3 ft. dist. and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
 level land bears N.E. and S.W. Enter rolling
 land are S.E. slope.

80.00 See an iron post 3 ft. long 2 ins. in diam. 24 ins.
 in the ground for cor. of secs. 23, 24, 25 and 26.
 marked on brass cap T₃₁N. S₂₃ in N.W., R16E.
 S₂₄ in N.E. S₂₅ in S.E. and S₂₆ 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 level and rolling
 Soil sandy 3rd rate.
 No timber

40.00 S 89° 56' E, on a random line, bet. secs. 24 and 25,
 See temp. 1/4 sec. cor.

79.98 Intersect the 4th Guide Meridian East. 5 lbs. N.
 of the cor. of secs. 19, 24, 25 and 30, recently established
 by me as described in Standard Book "U" hence I run,
 N. 89° 54' W, on a true line, bet. Secs. 24, and 25,
 descend NW. slope over rolling sandy land through
 sage and greasewood brush undergrowth and
 bunch grass.

27.90 Left bank of the De. Nebito Wash 15 ft. high. bears
 N 35° E. and S 35° W. Leave undergrowth bears
 N.E. and S.W.

29.60 Right bank of the De. Nebito Wash. bears N 35° E
 and S 35° W. Enter level land and undergrowth
 bears N.E. and S.W.

37.40 Dry ravine 20 lbs. wide 4 ft. deep course south

39.99 See an iron post 3 ft. long 1 in. in diam. 26 ins
 in the ground for 1/4 sec. cor. marked on brass
 cap No S₂₄ on N. half. and S₂₅ on S. half.
 Dig pits 18x18x12 ins. East W. of post 3 ft. dist.
 and raise a mound of earth 3 1/2 ft. base 1 1/2 ft.
 high. N. of cor.

40.50 Level land bears N.E. and S.W. Enter rolling
 land bears N.E. and S.W. are. S.E. slope

79.98 The cor. of secs. 23, 24, 25 and 26, hereinbefore described.
 Land rolling and level.
 Soil sandy 3rd rate.
 No timber

Note: - on this cor. & set off 2° 47 1/2' N. on the decl. arc.

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and at noon observed the sun on the meridian and obtain a reading of $36^{\circ} 03\frac{1}{2}'$ N. on the lat. arc.

N $0^{\circ} 01'$ W., bet. sec. 23. and 24,
Ascend S.E. slope over rolling sandy land through scattering sage and greasewood brush undergrowth and bunch grass.

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

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

80.00 Set an iron post 3 ft. long 2 ins. in diam. 24 ins. in the ground for cor. of sec. 13, 14, 23, and 24 marked on brass cap T 31 N. S 14 in N.W. R 16 E.

S 23 in N.E., S 24 in S.E. and S 23 in S.W. quadrants. Dig pits 18x18x12 ins. in each. sec. 5 $\frac{1}{2}$ ft. deep. and raise a mound of earth 4 ft. base 2 ft. high. W. of cor.

land rolling
Soil sandy 3rd rate.
No timber

S 89 $^{\circ} 54'$ E, on a random line, bet. sec. 13 and 24,
40.00 Set temp $\frac{1}{4}$ sec. cor.

79.96 Intersects the 4th Guide Meridian East at the cor. of sec. 13, 18, 19, and 24, recently established by me as described in Standard Book "Up there" I run,
N. 79 $^{\circ} 54'$ W., on a true line, bet. sec. 13 and 24,

Over level sandy land covered with scattering sage and greasewood brush undergrowth and bunch grass.

38.00 Rear level land bears N.E. and S.W. Enter rolling land ascend gradually over S.E. slope

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

Subdivision of Pp 31 N. R 16 E.

Chain

Dig pits 18x18x12 ins E. and W. of post 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.
 45.00 Mts of sand ridge bears N.W. and S.E. direction.
 62.20 Depression 15 lks. wide 4 ft. deep course S.E. direction.
 79.96 The cor. of secs. 13, 14, 23, and 24, hereinbefore described.
 Land rolling and level.
 Soil sandy 3rd rate.
 No timber

N. 0° 01' W, 1/4 sec. 13 and 14,
 Around S.E. slope over rolling sandy land, through sage and greasewood brush undergrowth and bunch grass
 13.90 Dry sand wash 100 lks. wide 2 ft. deep course S 50° E, ascend rolling S.E. slope.
 40.00 Set an iron post 3 ft. long 1 in in diam. 26 ins. in the ground for the sec. cor. marked on brass cap 14 S 14 on W. half, and S 13 on E. half.
 Dig pits 18x18x12 ins. N. and S. of post 3 ft. dist. and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high W. of cor.
 58.40 Depression bears N.E. and S.W., drains S.E. ascend.
 80.00 Set an iron post 3 ft. long 2 ins. in diam. 24 ins. in the ground for cor. of secs. 11, 12, 13 and 14, marked on brass cap T 31 N. S 11 in N.W., R 16 E S 12 in N.E. S 13 in S.E. and S 14 in S.W. quadrants.
 Dig pits 18x18x12 ins. in each sec. 5 1/2 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
 Land rolling.
 Soil sandy 3rd rate.
 No timber

March 28th 1911

April 3rd 1911 At 8^h 03^m a.m. l.m.t. - D set off 36° 05 1/2' N. on the lat. arc. 5° 04' N. on the decl. arc. and determine a meridian with the solar alt. the cor. of secs. 11, 12, 13, and 14, ^{above described} then D run, S 89° 54' E, on a random line, bet. sec. 12 and 13;
 40.00 Set temp 1/4 sec. cor.

Subdivision of Twp 31 N. R 16 E.

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Chain

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- 80.00 Intersect the 4th Guide Meridian East, 10 lks. S. of the cor. of secs. 7, 12, 13, and 18, recently established by line as described in Standard Book "L", thence $\frac{1}{4}$ run, $N 89^{\circ} 58' W$, on a true line, bet. secs 12 and 13, Ascend S.E. slope over rolling sandy land through scattering sage and greasewood brush undergrowth and bunch grass
- 40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap $\frac{1}{4}$ S 12. on N. half and S 13. on S. half. Dig pits 18 x 18 x 12 ins E and W. of post 3 ft. dist. and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high N. of cor.
- 57.00 Top of sand ridge bears N. and S. desc. gradually over W. slope
- 80.00 The cor. of secs. 11, 12, 13 and 14, hereinbefore described. Land rolling. Soil sandy 3rd rate. No timber

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

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

- 32.00 Top of sand ridge bears N.E. and S.W. desc. gentle NW slope. Enter scattering cedar timber bears N.E. and S.W.
- 40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap $\frac{1}{4}$ S 11 on W. half and S 12. on E. half. From which.
A cedar 12 ins. in diam. bears $N 45\frac{1}{4}^{\circ} E$ 159 lks. dist. marked $\frac{1}{4}$ S 12. B.T. and
A cedar 6 ins. in diam. bears $S 61^{\circ} W$ 430 lks. dist. marked $\frac{1}{4}$ S 11 B.T.
- 53.00 Leave timber bears E. and W.
- 62.10 Dry ravine 50 lks. wide 4 ft. deep course $S 70^{\circ} E$. desc. gradually
- 68.00 Enter cedar timber bears E. and W.
- 75.30 A point from which an Indian Hog pen bears West 150 lks. dist.
- 80.00 Set an iron post 3 ft. long 2 ins. in diam. 24 ins.

Chavis

Subdivision of T₃₁N., R₁₆E.

in the ground for cor. of sec. 1, 2, 11, and 12, marked on brass cap T₃₁N., S₂ in N.W. R₁₆E. S₁ in N.E., S₁₂ in S.E., and S₁₁ in S.W. quadrant from which.

A cedar 10 ins. in diam. bears N₆₂³/₄° E 34 lbs. dist. marked T₃₁N., R₁₆E S₁ B.T.

A cedar 24 ins. in diam. bears S₁₁¹/₂° E 85 lbs. dist. marked T₃₁N., R₁₆E. S₁₂ B.T.

A cedar 9 ins. in diam. bears S₄₂° W 23 lbs. dist. marked T₃₁N., R₁₆E. S₁₁ B.T. and

A cedar 20 ins. in diam. bears N₆³/₄° W. 46 lbs. dist. marked T₃₁N., R₁₆E S₂ B.T.

Land rolling.
Soil sandy ³/₄ rate.
Timber Cedar

Note:—At this cor. I set off 5° 07' N. on the decl. arc and at noon observed the sun on the meridian and obtain a reading of 36° 06' N. on the lat. arc.

89° 58' E., on a random line, bet. sec. 1 and 12, 40.00 Set temp. ¹/₄ sec. cor.

80.06 Intersect the 4th Guide Meridian East, 5 lbs. N. of the cor. of sec. 1, 6, 7, and 12, recently established by me as described in Standard Book "U", thence I run N₈₉⁵/₆° W, on a true line, bet. sec. 1 and 12, ascend East slope over hilly land, through scattering cedar timber and scattering sage and greasewood brush undergrowth.

26.00 Top of sand ridge bears N₄₀° W and S₄₀° E desc.

30.00 Dry ravine 20 lbs. wide 2 ft. deep course S₃₀° E. asc.

40.03 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for ¹/₄ sec. cor. marked on brass cap ¹/₄ S₁ on N. half, and S₁₂ on S. half, from which.

A cedar 4 ins. in diam. bears N₇₁¹/₂° W 36 lbs. dist. marked ¹/₄ S₁ B.T. and

A pine 14 ins. in diam. bears S₅₄¹/₂° W 31 lbs. dist. marked ¹/₄ S₁₂ B.T.

52.00 Top of rocky spur bears N. and S. desc. steeply.

64.90 Dry ravine course South asc.

Subdivision of Pp 31 N. R 16 E.

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Chain

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- 67.00 Top of rocky spur 20 ft. above ravine bears N. and S desc.
- 69.55 Dry ravine Course $S 40^{\circ} E$. asc.
- 75.00 Top of sand ridge 20 ft. high. bears NW. and SE. desc.
- 80.06 The cor. of secs. 1, 2, 11, and 12, hereinbefore described.
Land hilly.
Soil sandy and stony 3rd and 4th rate.
Number pinion pine and Cedars.

- 40.00 $N. 0^{\circ} 01' W.$, on a random line, bet. secs. 1 and 2, set temp 4 sec. cor.
- 80.10 Intersect N. bdy. of Pp. 5 lks. $N. 89^{\circ} 55' W.$ of the cor. of secs. 1, 2, 35, and 36, recently estab. by me as described in Exterior Book "A",
^{thence, 1 run,}
 $S 0^{\circ} 01' W.$, on a true line, bet. secs. 1 and 2,
Descend S.W. slope over stony hilly land through scattering cedar timber and sage brush undergrowth
- 10.75 Dry ravine Course S.E. asc.
- 16.00 Top of rocky ridge bears E and W. desc.
- 17.15 Top of sand stone ledge 15 ft. high. bears $N 75^{\circ} W.$ and $S 75^{\circ} E$. desc. abruptly
- 40.10 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on bear Exp '14 S 2 on W. half. and S 1 on E. half. from which.
A pinion pine 12 ins. in diam bears $S 79^{\circ} \frac{1}{2} E$ 97 lbs. dist. marked $\frac{1}{4}$ S 1 B.T.
A pinion pine 5 ins. in diam. bears $S 14^{\circ} W.$ 22 lbs. dist. marked $\frac{1}{4}$ S 2 B.T.
- 43.10 Dry rocky ravine 15 ft. below $\frac{1}{4}$ sec. cor. Course $S 65^{\circ} W.$ (asc. steeply).
- 48.50 Top of rocky ridge bears E and W. desc. steeply.
- 80.10 The cor. of secs. 1, 2, 11, and 12, hereinbefore described.
Land hilly.
Soil sandy and stony 3rd and 4th rate.
Number pinion pine and cedar

April 3rd 1911

March 29th 1911: At 7^h 05^m a.m. found & set off $36^{\circ} 02' N.$ on the lab. arc. $3^{\circ} 08' N.$ on the decl. arc and determine a meridian with the solar alt.
the cor. of secs. 2, 3, 34, and 35 on S. bdy. of Pp. established by Sidney E. Blunt, May 25, 1909 which is an iron post 3 ins. in diam. 12 ins. above

Subdivision of T₃₁N, R₁₆E.

Chain

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- ground, marked on brass cap, R₁₆ in E. half, T₃₁N, S₃₅ in N.E., T₃₀N, S₂ in S.E. S₃ in S.W. and S₃₄ in N.W. quadrant. with pits 18x18x12 ins. in each sec. 5½ ft. dish. and a mound of earth 4 ft. base 2 ft. high. W. of cor., three drums, N. 60° 01' W., top sec. 34 and 35.
- Descend N. slope over rolling sandy land. Covered with scattering sage and greasewood bush. undergrowth and bunch grass.
- 21.5 - Left bank of the De Nebito Wash. 25 ft. high. bears N 45° E. and S 45° W. Leaves undergrowth and bunch grass bears N.E. and S.W.
- 5.25 - Right bank of the De Nebito Wash 25 ft. high. bears N.E. and S.W. Enter level land and undergrowth bears N.E. and S.W.
- 40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for ¼ sec. cor. marked on brass cap S₃₄ on W. half and S₃₅ on E. half. Dig pits 18x18x12 ins N. and S. of post. 3 ft. dish. and raise a mound of earth 3½ ft. base 1½ ft. high. W. of cor.
- 54.00 Leave level land bears N.E. and S.W.. Enter rolling land. ascend gradually over S.E. slope.
- 68.00 Enter scattering 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 sec. 26, 27, 34 and 35. marked on brass cap. T₃₁N, S₂₇ in N.W. R₁₆E S₂₆ in N.E. S₃₅ in S.E. and S₃₄ in S.W. quadrant. from which.
- A cedar 8 ins. in diam bears N 72½° E 157 lks. dist. marked T₃₁N, R₁₆E S₂₆ B.T. and
- A cedar 6 ins. in diam. bears N 12½° W 112 lks. dist. marked T₃₁N, R₁₆E. S₂₇ B.T.
- No other trees within the prescribed limits
- Raise a mound of stone 2 ft. base, 1½ ft. high. W. of cor. Pits impracticable
- Land level and rolling.
- Soil sandy and stony 3rd and 4th rate.
- Number Cedar.

S 89° 58' E, on a random line, top sec. 26 and 35.

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- 40.00 Set temp $\frac{1}{4}$ sec. cor.
- 80.10 Intersect N. and S. line, 5 lks. N. of the cor. of secs. 25, 26, 35 and 36; hereinbefore described, thence 1 run, $N. 89^{\circ} 56' W.$, on a true line, to h. sec. 26 and 35, descend NW. slope over rolling sandy land, through scattering sage and greasewood brush undergrowth and bunch grass
- 8.95 Left bank of the De Nebeto Wash. 20 ft. high. bears $N 45^{\circ} E$ and $S 45^{\circ} W$. Low undergrowth and bunch grass. bears NE and SW.
- 15.10 Right bank of the De Nebeto Wash. 20 ft. high. bears $N 45^{\circ} E$ and $S 45^{\circ} W$. Enter level land and undergrowth bears NE and SW.
- 40.05 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap $\frac{1}{4}$ S 26 on N. half and S 35 on S. half 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.
- 72.00 Leave level land bears NE and SW., Enter stony hilly land bears NE and SW. are S.E. slope.
- 74.50 Top of rocky spur bears N and S. desc.
- 76.30 Dry ravine 10 lks. wide course S.E. are Enter timber bears NE+SW
- 80.10 The cor. of secs. 26, 27, 34 and 35, hereinbefore described. Land level, rolling, and hilly. Soil sandy adobe and stony 2^{nd} , 3^{rd} , and 4^{th} rate. Timber Cedar
-
- $N 90^{\circ} 01' W.$, to h. sec. 26 and 27. Over stony hilly land through, scattering cedar timber and sage and greasewood brush undergrowth
- 25.00 Top of rocky spur bears E and W. desc.
- 31.25 Dry rocky ravine 10 lks. wide course east. are.
- 33.00 Leave timber bears $N 40^{\circ} E$ and $S 40^{\circ} W$.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap $\frac{1}{4}$ S 27. on W. half and S 26 on E. half. Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Pile impracticable
- 53.00 Enter scattering cedar timber bears NE and SW.

Submission of Twp 31 N. R 16 E.

Chains

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62.00 Top of sand ridge bears E. and W. desc.
 74.00 Care 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. 22, 23, 26
 and 27, marked on brass cap T 31 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.
 Quadrant.
 Dig pits 18 x 18 x 12 ins. in each sec. 5 1/2 ft. dist.
 and raise a mound of earth 4 ft. base 2 ft.
 high W. of cor.
 Land hilly.
 Soil sandy and stony 3rd and 4th rate.
 Timber Cedar

Note: At this cor. I set off 3° 11' N. on the decl. arc
 and at noon observed the sun on the meridian
 and obtain a reading of 36° 03 1/2' N. on the lat.
 arc.

89° 56' E. on a random line, bet. sec. 23 and 26,
 40.00 Set temp 1/4 sec. cor.
 80.10 Intersect N. and S. line, 5 lbs. N. of the cor. of sec.
 23, 24, 25 and 26, hereinbefore described, thence I run,
 N. 89° 54' W. on a true line, bet. sec. 23 and 26.
 Over rolling sandy land through
 sage and greasewood brush. Undergrowth and
 bunch grass.

40.05 Set an iron post 3 ft. long 1 in. in diam. 26 ins.
 in the ground for 1/4 sec. cor. marked on brass
 cap 1/4 S 23 on N. half and S 26 on S. half.
 Dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist.
 and raise a mound of earth 3 1/2 ft. base, 1 1/2
 ft. high. N. of cor.

80.10 The cor. of sec. 22, 23, 26, and 27, hereinbefore described.
 Land rolling.
 Soil sandy 3rd rate.
 No timber

N 0° 01' W. bet. sec. 22 and 23.
 Mound N.E. slope over sandy land through sage

BOOK 2622

- and greewood brush undergrowth and bunch grass
- 7.00 Dry ravine 10 lks. wide course S 65° E. acc.
- 10.00 Enter scattering cedar timber land 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 22 on W. half and S 23 on E. half, from which.
- A cedar 8 ins. in diam. bears N 67° W 229 lks. dist. marked $\frac{1}{4}$ S 22 B.T. No other trees within limits
- Dig pits 18x18x12 ins. N. and S. of post 3 ft. dist. and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 46.50 W. of sand ridge bears E. and W. due.
- 53.50 Dry ravine 15 lks. wide, 10 ft. below top of ridge course East. acc.
- 80.00 Set an iron post 3 ft. long 2 ins. in diam. 24 ins. in the ground for cor. of secs. 14, 15, 22, and 23 marked on brass cap T₃₁ N. S₁₅ in N.W. R₁₆ E. S₁₄ in N.E. S₂₃ in S.E. and S₂₂ in S.W. quadrant. from which.
- A cedar 14 ins. in diam. bears S 63 $\frac{3}{4}$ ° E 418 lks. dist. marked T₃₁ N. R₁₆ E. S₂₃ B.T.
- A cedar 14 ins. in diam bears S 29 $\frac{1}{2}$ ° W. 146 lks. dist. marked T₃₁ N. R₁₆ E. S₂₂ B.T. and
- A cedar 12 ins. in diam. bears N 76 $\frac{1}{2}$ ° W 89 lks. dist. marked T₃₁ N. R₁₆ E. S₁₅ B.T.
- No other trees suitable for bearing trees within the prescribed limits
- 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 lilly.
- Soil sandy 3rd rate.
- Timber Cedar
-
- S 89° 54' E, on a random line, bet. secs. 14 and 23,
- 40.00 Set trip $\frac{1}{4}$ sec. cor.
- 80.12 Intersect N and S. line, at the cor. of secs. 13, 14, 23 and 24, hereinbefore described, thence I run,
- N. 89° 54' W., on a true line, bet. secs. 14 and 23,

Searius

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

40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap $\frac{1}{4}$ S 14 on N. half. and S 23 on S. half. Dig pit 18x18x12 ins. E and W. of post. 3 ft. dist. and raise a mound of earth $3\frac{1}{2}$ ft. base. $1\frac{1}{2}$ ft. high. N. of cor.

76.00 Enter scattering cedar timber bears N. and S.

80.12 The cor. of secs. 14, 15, 22. and 23, hereinbefore described.

Sand rolling

Sib. sandy 3rd rate.

Number Cedar.

March 29th 1911.

April 4th 1911. At 7^h 03^m a.m. I met D. Sch. off. $36^{\circ} 42' N.$ on the lat. arc. $5^{\circ} 26\frac{1}{2}'$ N. on the decl. arc. and determine a meridian with the solar at the cor. of secs. 14, 15, 22. and 23, hereinbefore described.

Thence 1 run.

$N. 6^{\circ} 01' W.$ to cor. 14 and 15;

Across gradually over S. slope of sand ridge through scattering cedar timber and sage brush undergrowth.

3.00 Top of sand ridge bears E and W. desc. gently.

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

40.00 Set an iron post 3 ft. long. 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap $\frac{1}{4}$ S 15 on W. half and S 14 on E. half.

Dig pit 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.

43.00 Foot of ducich in Depression bears E. and W. drains to the east. arc. gradually.

69.00 Enter scattering cedar 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 secs. 10, 11, 14, and 15 - marked on brass cap T 31 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. quadrant. from which.

A cedar 15 ins. in diam. bears $N 83\frac{1}{2}^{\circ} E 73$ lbs. dist.

marked T 31 N., R 16 E., S 11 B.T.

A cedar 18 ins. in diam. bears S $50\frac{3}{4}^{\circ}$ E 139 lks. dist.
marked T 31 N., R 16 E., S 14 B.T. and

A cedar 12 ins. in diam. bears N $10\frac{3}{4}^{\circ}$ W. 167 lks. dist.
marked T 31 N., R 16 E., S 10 B.T.

No. other trees suitable for bearing trees available.

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

Land rolling and hilly.

Soil sandy and stony 3rd rate.

Timber Cedar

S $89^{\circ} 54'$ E, on a random line, bet. sec. 11 and 14,

40.00 Sec temp 1/4 sec. cor.

80.08 Intersect N. and S. line, 5 lks S. of the cor. of sec.
11, 12, 13, and 14, hereinbefore described, thence I run,

N. $89^{\circ} 56'$ W., on a true line, bet. sec. 11 and 14,

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

22.00 Foot of descent in depression bet. NW and S.E. drains
to the S.E. are.

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

40.04 See an iron post 3 ft. long 1 in. in diam. 26 ins.
in the ground, for 1/4 sec. cor. marked on bear cap.
1/4 S 11 W N. half and S 14 on S. half. from which.

A cedar 10 ins. in diam. bears N $27\frac{1}{2}^{\circ}$ W 184 lks. dist.
marked 1/4 S 11 B.T. and

A cedar 10 ins. in diam. bears S $8\frac{1}{2}^{\circ}$ E 508 lks. dist.
marked 1/4 S 14 B.T.

56.00 Top of low sand ridge bears N. and S. desc.

66.60 Dry rocky ravine 10 lks. wide course South are.

71.00 A point from which an Indian Hogan bears
South 100 lks. dist.

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

76.70 Dry ravine 8 lks. wide course South are.

80.08 The cor. of sec. 10, 11, 14, and 15, hereinbefore described.

Land rolling and hilly.

Soil sandy and stony 3rd and 4th rate.

Timber Cedar

Chain

- N. 0° 01' W., beh. recs. 10 and 11,
 ascend S. slope over hilly and broken sandy and
 stony land, through scattering cedar timber and
 sage and greasewood brush undergrowth and
 bunch grass.
- 21.05 Sandstone ledge 8 ft. high, bears E and W.
- 33.00 Top of rocky ridge bears N 60° W. and S 60° E. decl.
- 40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins.
 in the ground for $\frac{1}{4}$ sec. cor. marked on brass
 cap $\frac{1}{4}$ S 10 on W. half and S 11 on E. half from
 which.
- A cedar 8 ins. in diam. bears N 83° E 85 lbs.
 dish, marked $\frac{1}{4}$ S 11 B.T. and
 A fir or pine 6 ins. in diam. bears S 68 $\frac{1}{2}$ ° W 76
 lbs. dish, marked $\frac{1}{4}$ S 10 B.T.
- NOTE: - At this cor. D set off 5° 30' N. on the decl. arc and
 an noon observe the sun on the meridian
 and obtain a reading of 36° 06' N. on the lab.
 arc
- 43.00 Dry ravine 10 lbs. wide 15 ft. below $\frac{1}{4}$ sec. cor
 course S.W. arc.
- 48.00 Top of rocky spur, 15 ft. above ravine bears N.E.
 and S.W. decl.
- 56.90 Dry rocky ravine 30 ft. below top of ridge course
 S 60° W. arc. steeply.
- 70.00 Top of steep arch, leave hilly land bears E and
 W. Enter broken stony land.
- 80.00 Set an iron post 3 ft. long 2 ins. in diam. 24
 ins. in the ground for cor. of recs. 2, 3, 10,
 and 11. marked on brass cap T 31 N. S 3 in N.W.
 R16 E. S 2 in N.E., S 11 in S.E. and S 10 in S.W.
 quadrants from which.
- A fir or pine 10 ins. in diam. bears N 35° E. 97 lbs.
 dish, marked T 31 N. R16 E. S 2 B.T.
- A cedar 12 ins. in diam. bears S 73 $\frac{1}{2}$ ° E 85 lbs.
 dish marked T 31 N. R16 E. S 11 B.T.
- A fir or pine 8 ins. in diam. bears S 70 $\frac{1}{2}$ ° W 87
 lbs. dish, marked T 31 N. R16 E S 10 B.T. and
 A fir or pine 7 ins. in diam. bears N 31 $\frac{1}{2}$ ° W 142
 lbs. dish, marked T 31 N. R16 E. S 3, B.T.
- Land hilly and broken
 Soil sandy and stony 3rd and 4th etc.

BOOK 2622

Timber fusion pine and cedar

S 89° 56' E, on a random line, bet. secs. 2 and 11,
40.00 Sth temp. 1/4 sec. cor.

80.06 Intersect N. and S. line, 8 lks. N. of the cor. of secs.
1, 2, 11, and 12, hereinbefore described, thence I run,

N 89° 53' W, on a true line, bet. secs. 2, and 11.

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

6.00 Dry ravine 10 lks wide, 15 ft. below sec cor. Course
South asc.

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

21.70 Dry ravine 30 lks. wide Course South. asc.

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

40.03 Set an iron post 3 ft. long 1 in. in diam. 26 ins.
in the ground, for 1/4 sec. cor. marked on brass
cap 1/4 S 2 on N. half, and S 11 on S. half,
from which.

A cedar 14 ins. in diam. bears N 11 1/2° E 31 lks.
dist. marked 1/4 S 2 B.T. and

A cedar 12 ins. in diam. bears S 22 1/2° E 90 lks. dist.
marked 1/4 S 11 B.T.

40.55 Dry ravine 10 lks. wide, 8 ft. below 1/4 sec. cor.
Course S 70° E asc.

73.50 Top of high rocky ridge bears N. and S. desc.

80.06 The cor. of secs. 2, 3, 10, and 11, hereinbefore described.

Land hilly and broken.

Soil sandy and stony 3rd and 4th etc.

Timber fusion pine and cedar

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

40.00 Sth temp. 1/4 sec. cor.

80.00 Intersect N. ldy. of N. 8 lks. N 89° 55' W, the cor. of
secs. 2, 3, 34, and 35, recently established by me as described in
Exterior Book "AU", thence I run,
S 0° 02' W, on a true line bet. secs. 2 and 3.

Desc. along West. slope over rolling sandy land through
scattering cedar timber and sage and greasewood
brush undergrowth.

32.15 Dry ravine 20 lks. wide 25 ft. below 1/4 sec.
Cor. Course West. asc. gradually

Subdivision of Twp 31 N. R 16 E.

Chains

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 3 on W. half and S 2. on E. half. from which.

A cedar 10 ins. in diam. bears N 58 1/2 W 61 lbs. dist. marked 1/4 S 3 B. II. and

A cedar 16 ins. in diam. bears S 72 E 33 lbs. dist. marked 1/4 S 2 B. II.

42.00 Top of rocky ridge bears N.W. and S.E. desc. SW. slope over stony hilly land.

45.50 Rocky ravine 15 lbs. wide (dry) course N 60 W and.

60.00 Top of high. Divide bears N 50 E. and S 50 W desc

71.70 Dry rocky ravine 40 lbs. wide 40 ft. deep. course S 45 W. asc.

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

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

April. 4th 1911

March 30th 1911. At 7^h 05^m a.m. L.M.L. D set off 36° 02' N. on the lat. arc. 3° 31' N. on the decl. arc and determine a meridian with the solar at the cor. of secs. 3, 4, 33, and 34, on S.

Top of ^{established by Sidney E. Blout, May 25, 1909,} dry, of Twp. 1 which is an iron post. 3 ins. in diam. 12 ins above ground. firmly set, marked on brass cap R 16 E in E. half, T 31 N. S 34 in NE. T 30 N. S 3 in SE. S 4 in SW. and S 33 in NW. quadrants. with pins 18x18x12 ins. in each sec. 5 1/2 ft. dist. and a mound of earth 4 ft. base, 2 ft. high. W. of cor., thence down, N 0° 02' W, to cor. sec 33 and 34.

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

15.00 Leave level land bears NE. and SW. Enter rolling and hilly land bears NE. and SW. Ascend gradually over S.E. slope.

20.00 Top of sand ridge bears NE. and SW. desc Enter Cedar timber.

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 cedar 10 ins. in diam bears $N 82\frac{1}{4}^{\circ} E 76$ lks. dist.
marked $\frac{1}{4}$ S 34 B.T. and

A cedar 5 ins. in diam. bears $S 74\frac{1}{4}^{\circ} W 183$ lks.
dist. marked $\frac{1}{4}$ S 33 B.T.

41.60 Dry rocky runnel 15 ft. below $\frac{1}{4}$ sec. cor. course
S.W. and.

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

80.00 Set an iron pin 3 ft. long 2 ins. in diam 24 ins.
in the ground for cor. of secs. 27, 28, 33, and
34, marked on brass cap T 31 N., S 28 in NW,
R 16 E., S 27 in N.E., S 34 in S.E., and S 33 in S.W.
quadrant. from which.

A cedar 8 ins. in diam. bears $N 35^{\circ} E 331$ lks.
dist. marked T 31 N., R 16 E., S 27 B.T. and

A cedar 6 ins. in diam. bears $N 32\frac{1}{2}^{\circ} W 200$
lks. dist. marked T 31 N., R 16 E., S 28 B.T.

No other trees suitable for bearing trees
available

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

Land level, rolling, and hilly.

Soil sandy, adobe, and stony 3rd and 4th rate.
Pioneer Cedar.

89° 58' E, on a random line, bet. secs. 27 and 34,
40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.12 Intersect N and S. line, 3 lks. S. of the cor. of secs.
26, 27, 34, and 35, hereinbefore described, thence I run,

$N. 89^{\circ} 59' W.$, on a true line, bet. secs. 27 and 34.

Ascend E. slope over stony hilly land, through
scattering cedar timber and sage brush undergrowth
and bunch grass.

2.60 Top of low rocky ridge bears N. and S. desc.

18.25 Foot of steep descent, bears hilly land and
scattering timber and undergrowth bears N. and S.
Enter cultivated land bears North 15.00 lks. and
South 5.00 lks. dist.

Chains

19

- 30.50 Leave cultivated land bears $N 50^{\circ} W. 15.00$ chs and $S 50^{\circ} E. 6.00$ chs. dist. Enter scattering Cedar timber and undergrowth bears $N W.$ and $S E.$
- 37.60 An Indian Hogone on line, are. E. slope of ridge
- 39.00 Top of sand ridge bears $N.$ and $S.$ desc.
- 40.06 Set an iron post 3 ft. long 1 in. in diam. 26 ins in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap $\frac{1}{4}$ S 27 on N. half and S 34 on S. half. from which.
A cedar 20 ins. in diam. bears $S 71^{\circ} W 250$ lbs. dist. marked $\frac{1}{4}$ S 34 B.T. No other trees suitable for bearing trees available
Raise all around of stone 2 ft. base, $1\frac{1}{2}$ ft. high. N. of cor. Pits impracticable
- 47.50 Top of descent in depression bears $N. E.$ and $S. W.$ drains to the $N. E.$ asc.
- 63.35 A point from which a spring bears North 12.68 chs. dist.
- 80.12 The cor. of secs. 27, 28, 33. and 34, hereinbefore described.
Land rolling and hilly.
Soil sandy and stony 2^{nd} , 3^{rd} and 4^{th} rate.
Timber Cedar

$N 0^{\circ} 02' W.$ bet. secs. 27 and 28.
Descend North slope over hilly sandy and stony land, through scattering cedar timber and greasewood brush undergrowth and bunch grass.

- 38.00 Dry rocky ravine 100 lbs. wide Course East, are. S. 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 28 on W. half, and S 27 on E. half, from which.
A pine or fine 6 ins. in diam. bears $N 24\frac{1}{2}^{\circ} E. 91$ lbs. dist. marked $\frac{1}{4}$ S 27 B.T. and,
A pine or fine 6 ins. in diam. bears $N 82\frac{1}{2}^{\circ} W 43$ lbs. dist. marked $\frac{1}{4}$ S 28 B.T.
- 45.00 Top of sand ridge bears $E.$ and $W.$ desc.
- 64.65 Dry ravine 30 lbs. wide Course $S 60^{\circ} E.$ asc.

BOOK 2622

- 76.00 Top of sand ridge bears E and W. desc.
- 80.00 Set an iron post 3 ft. long 2 in. in diam. 24 in. in the ground for $\frac{1}{4}$ sec. cor. of sec. 21, 22, 27, and 28, marked on base cap T31 N. R16 E. S22 in N.E. S27 in S.E. and S28 in S.W. quadrant; from which.
- A cedar 12 in. in diam. bears $N68^{\circ}E$ 179 lks. dist. marked T31 N. R16 E. S22 B.T.
- A pinon pine 12 in. in diam. bears $S51^{\circ}E$ 261 lks. dist. marked T31 N. R16 E. S27 B.T.
- A cedar 14 in. in diam. bears $S48\frac{3}{4}^{\circ}W$ 107 lks. dist. marked T31 N. R16 E. S28 B.T. and
- A cedar 10 in. in diam. bears $N13\frac{1}{2}^{\circ}W$ 104 lks. dist. marked T31 N. R16 E. S21 B.T.
- Land rolling and hilly
- Soil sandy and stony 3rd and 4th rates.
- Timber Cedar and pinon pine.

NOTE: At this cor. \angle set off $3^{\circ}34'$ N. on the decl. arc and at noon observe the sun on the meridian and obtain a reading of $36^{\circ}03\frac{1}{2}'$ N. on the lat. arc.

- 40.00 $S89^{\circ}59'E$, on a random line, bet. sec. 22 and 27
- Set temp. $\frac{1}{4}$ sec. cor.
- 80.06 Intersect N. and S. line, 5 lks. S. of the cor. of sec. 22, 23, 26 and 27, hereinbefore described, thence run $S89^{\circ}59'W$, on a true line, bet. sec. 22 and 27.
- Ascend over hilly sandy land, through scattering sage and greasewood bush undergrowth.
- 8.00 Enter scattering cedar timber bears N.W. and S.E.
- 32.00 Top of sand ridge 40 ft. high, bears N. and S. desc.
- 40.03 Set an iron post 3 ft. long 1 in. in diam. 26 in. in the ground for $\frac{1}{4}$ sec. cor. marked on base cap $\frac{1}{4}$ S 22 on N. half and S 27, on S. half. from which.
- A cedar 8 in. in diam. bears $N9\frac{1}{2}^{\circ}E$ 131 lks. dist. marked $\frac{1}{4}$ S. 22 B.T. and
- A cedar 18 in. in diam. bears $S6^{\circ}W$ 95 lks.

Subdivision of T31N, R16E.

Chains

- ditch marked 1/4 S 27 B.T.
- 70.80 Dry rocky ravine 20 lks. wide course S.E. acc.
- 74.00 W. of sand ridge bears N.W. and S.E. desc
- 75.65 Dry rocky ravine 10 lks. wide course S.E. acc.
- 80.06 The cor. of sec. 21, 22, 27, and 28, hereinbefore described. Land hilly. Soil sandy and stony 3rd and 4th rate. Timber juniper pine and cedar

N. 0° 02' W. lks. sec 21, and 22, .
 Descend North slope over rolling sandy land covered with scattering cedar timber and sage brush undergrowth and bunch grass

- 6.30 Dry ravine 8 lks. wide course S.E. acc. grad. S.W. slope.
- 26.70 Intersect Indian Hog on line.
- 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 21 on W. half and S 22 on E. half, from which.
 A cedar 14 ins. in diam. bears 71 68 1/2° E 65 lks. ditch marked 1/4 S 22 B.T. and
 A cedar 16 ins. in diam. bears 38 1/4° W. 13 lks. ditch marked 1/4 S 21 B.T.
- 80.00 Set an iron post 3 ft. long 2 ins. in diam. 24 ins. in the ground for cor. of sec. 15, 16, 21, and 22. marked on brass cap T31N, R16E in N.W., R 16E. S 15 in N.E. S 22 in S.E. and S 21 in S.W. quadrants. from which.
 A cedar 8 ins. in diam. bears 312° E 308 lks. ditch marked T31N, R16E. S 22 B.T. and
 A cedar 14 ins. in diam. bears 326° W 293 lks. ditch marked T31N, R16E. S 21 B.T.
- No other trees suitable for bearing trees available.
 Dig pits 18x18x12 ins. in each sec. 5 1/2 ft. deep, and raise a mound of earth 4 ft base, 1 1/2 ft. high W. of cor.
 Land rolling.
 Soil sandy 3rd rate.
 Timber Cedar

March 30th 1911

BOOK 2622

- April 5th 1911; Ab. 8^h 03^m a.m. Cont. Dist. of 36^o 04^h
 Now the lat. arc. 5° 50' N. on the decl. arc. and
 determine a meridian with the solar ab. the
 cor. of secs. 15, 16, 21, and 22, ^{above described} thence I run,
 N. 89° 59' E., on a random line, bet. secs. 15 and 22.
- 40.00 Set temp. 1/4 sec. cor.,
- 80.04 Intersect N. and S. line, 2 lbs. N. of the cor. of secs.
 14, 15, 22, and 23, hereinbefore described, thence I run,
 West, on a true line, bet. secs. 15 and 22, ascend
 S.E. slope over hilly sandy land covered with
 scattering cedar timber and bunch grass.
- 10.45 Top of sand ridge bet. N. and S. desc.
- 14.35 Dry ravine 15 lbs. wide 20 ft. below top of ridge
 course S 30° E. and
- 21.00 Leave timber bet. N.W. and S.E.
- 36.00 Top of sand ridge bet. N. and S. desc.
- 40.02 Set an iron post 3 ft. long 1 in. in diam. 26
 ins. in the ground for 1/4 sec. cor. marked on
 brass cap 1/4 S 15 on N. half. and S 22 on S.
 half.
- Dig pits 18x18x12 ins. East W. of post 3 ft.
 dist. and raise a mound of earth 3 1/2 ft. base
 1 1/2 ft. high N. of cor.
- 60.00 Enter scattering cedar timber bet. N. and
 S.
- 80.04 The cor. of secs. 15, 16, 21, and 22, hereinbefore described.
 Land hilly.
 Soil sandy 3rd rate,
 Timber Cedar
-
- N 0° 02' W, bet. secs. 15 and 16,
 Ascend S.W. slope over rolling sandy land, through
 scattering cedar timber and sage and greasewood
 brush undergrowth and bunch grass.
- 17.00 Dry ravine 10 lbs. wide 2 ft. deep. course S 35° W.
- 40.00 Set an iron post 3 ft. long. 1 in. in diam. 26 ins.
 in the ground for 1/4 sec. cor. marked on brass cap.
 1/4 S 15 on W. half. and S 15 on E. half. from
 which.
- A cedar 10 ins. in diam. bet. N 29 1/2° W, 160 lbs.
 dist. marked 1/4 S 15. P.T.

Subdivision of Tp 31 N, R 16 E.

23

Chains

- A cedar 8 ins. in diam. bears $S 35\frac{1}{2}^{\circ} E$ 116 lbs.
ditch, marked $\frac{1}{4} S 15 B.T.$
- 46.00 Top of sand ridge bears N.E. and S.W. desc.
- 47.53 Dry ravine 10 lbs. wide, 10 ft. below top of
ridge course N.E. asc.
- 60.00 Top of sand ridge bears E and W. desc.
- 70.65 Dry ravine 20 lbs. wide course $S 60^{\circ} E$. asc.
- 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 31 N, R 16 E. S 10 in N.E.,
S 15 in S.E. and S 16 in S.W.
quadrant from which.
- A pin of pine 12 ins. in diam. bears $N 71^{\circ} E$ 122 lbs.
ditch, marked T 31 N, R 16 E. S 10 B.T.
- A cedar 10 ins. in diam. bears $S 58^{\circ} E$ 35 lbs.
ditch, marked T 31 N, R 16 E. S 15 B.T.
- A cedar 12 ins. in diam. bears $S 66^{\circ} W$ 7 lbs.
ditch marked T 31 N, R 16 E S 16 B.T. and
- A cedar 14 ins. in diam. bears $N 55^{\circ} W$ 54 lbs.
ditch, marked T 31 N, R 16 E. S 9 B.T.
- Sand rolling.
Soil sandy 3rd rate.
Timber Cedar and pin of pine
- NOTE: - At this cor. Dip off. $5^{\circ} 53' N$, on the decl. arc. and
at noon observe the sun on the meridian
and obtain a reading of $36^{\circ} 05\frac{1}{2}' N$. on the
lab. arc
-
- Each, on a random line, bet. secs. 10 and 15,
40.00 Set top $\frac{1}{4}$ sec. cor.
- 80.08 Intersect N. and S. line, 5 lbs. N. of the cor. of secs.
10, 11, 14, and 15, hereinbefore described, thence 1 run,
 $N 89^{\circ} 58' W$, on a true line, bet. secs. 10 and 15.
- Around East slope of ridge over hilly sandy and
stony land, through scattering pin of pine and
cedar timber and greenwood bush underground.
- 11.00 Top of sand ridge bears N.W. and S.E. desc.
- 28.65 Dry ravine 40 lbs. wide 4 ft. deep course $S 45^{\circ} E$.
desc.
- 36.00 Top of sand ridge bears N. and S. desc.
- 40.04 Set an iron post 3 ft. long, 1 in. in diam. 26

Subdivision of Twp 31 N., R 16 E.

BOOK 2622

is. in the ground for $\frac{1}{4}$ sec. cor. marked out brass cap. $14 S 10$ on N. half. and $S 15$ on S. half from which. A cedar 24 ins. in diam. bears $N 10 \frac{1}{2}^{\circ} E. 106$ lbs. dist. marked $\frac{1}{4} S. 10 B.T.$ and
 A cedar 10 ins. in diam. bears $S 43 \frac{1}{2}^{\circ} E 39$ lbs. dist. marked $\frac{1}{4} S 15 B.T.$

143.80 Dry ravine 10 lks. wide course S. E. are.
 47.00 Top of stony ridge bears N. W. and S E desc.
 80.08 The cor. of secs. 9, 10, 15 and 16, hereinbefore described.
 Sand hilly.
 Soil sandy and stony 3rd and 4th rate.
 Timber prairie pine and cedar

April 5th 1911

This 5th day of April, 1911: I employ. Earl Albright. to perform the duties of a man. No officer authorized. to administer oaths other than myself. being available, without great inconvenience delay, and expense. I administered the required preliminary oaths.

Jan L. White

U.S. Marshal

April 6th 1911, At 9^h 02^m a.m., level - Dsch off. $36^{\circ} 05 \frac{1}{2}' N.$ on the lat. arc. $6^{\circ} 13' N.$ on the decl. arc. and determine a meridian with the solar at the cor. of secs. 9, 10, 15 and 16, ^{hereinbefore described} thence I run, $N. 0^{\circ} 02' W.$ bet. secs. 9, and 10, over hilly sandy, and stony land, through scattering cedar and pinion pine timber and sage brush, undergrowth and bunch grass.

4.00 Top of sand ridge bears E. and W. desc
 6.70 Dry ravine course East. are.
 30.00 Top of divide bears $N 30^{\circ} E.$ and $S 30^{\circ} W.$ 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 out brass cap $14 S 9$, on W. half. and $S 10$ on E. half, from which.
 A pinion pine 5 ins. in diam. bears $N 60^{\circ} E 37$ lbs. dist. marked $\frac{1}{4} S 9 B.T.$ and
 A cedar 12 ins. in diam. bears $N 80^{\circ} W. 10$ lbs. dist. marked $\frac{1}{4} S 10 B.T.$

Chasius

- 40.85 Dry ravine 10 lks. wide, 20 ft. below $\frac{1}{4}$ sec. cor. Course west. asc.
- 65.50 Top of rocky ridge bears NW. and S.E. desc
- 71.50 Dry ravine 12 lks wide course NW. asc. gently.
- 80.00 Set an iron post. 3 ft. long, 2 ins. in diam. 24 ins. in the ground for cor. of secs. 3, 4, 9, and 10. marked as brass cap. T 31 N, S 4 in NW. R 16 E. S. 3 in N.E., 310 in S.E. and 39 in S.W. quadrants, from which.
- A cedar 8 ins. in diam bears N 44 $\frac{1}{4}$ ° E. 114 lks. dist. marked T 31 N, R 16 E. S 3 B.T.
- A cedar 5 ins. in diam. bears S 81 $\frac{1}{2}$ ° E 40 lks. dist. marked T 31 N, R 16 E. S 10 B.T.
- A pinion pine 10 ins. in diam. bears S 33° W 96 lks. dist. marked T 31 N, R 16 E. S 9 B.T. and
- A pinion pine 4 ins. in diam. bears N 59° W. 83 lks. dist. marked. T 31 N, R 16 E S 4, B.T.
- Land hilly.
- Soil sandy and stony 3rd and 4th rate.
- Timber Pinion pine and Cedar

- S 79° 58' E, on a random line, bet. secs. 3 and 10,
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.00 Intersect M and S. line, at the cor. of secs. 2, 3, 10 and 11, hereinbefore described, thence I run,
- N. 89° 58' W., on a true line, bet. secs. 3 and 10, descend W. slope over stony hilly land through scattering pinion pine and cedar timber and sage and greasewood brush undergrowth and bunch grass
- 6.20 Dry ravine 20 lks. wide course South asc.
- 38.80 Top of ascent. Leave hilly land bears N.E. and S.W. Enter rolling land, on top of divide.
- 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 as brass cap $\frac{1}{4}$ S 3 on N. half. and 310 on S. half. from which.
- A cedar 15 ins. in diam. bears North 44 lks. dist. marked $\frac{1}{4}$ S 3 B.T. and
- A pinion pine 6 ins. in diam. bears S 18° W. 34 lks. dist. marked $\frac{1}{4}$ S 10 B.T.

BOOK 2622

NOTE: At this cor. I set off $6^{\circ}16'$ N. on the decl. arc. and
 at noon observe the sun on the meridian and
 obtain a reading of $36^{\circ}06'$ N. on the lab. arc.
 58.00 Low rolling land bears N.E. and S.W. Enter hilly
 land., descend N.W. slope
 80.00 The cor. of recs. 3, 4, 9, and 10, hereinbefore described.
 Land rolling, and hilly.
 Soil sandy 3rd rate,
 Timber prairie pine and cedar.

40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.98 Intersect N. line of Twp. 12 lks $S 89^{\circ}55' E$. of the cor. of recs
 3, 4, 33, and 34, recently estab. by me as described in Exterior Book "AU"
 Thence, 1 run
 $S 0^{\circ}07' E$, on a true line, bet. recs. 3 and 4,
 ascend N.E. slope, over hilly sandy and stony
 land. covered with scattering cedar and prairie
 pine timber and greasewood brush undergrowth
 14.00 Top of sand ridge 20 ft. high. bears N.E. and S.W. desc.
 18.50 Dry rocky ravine 10 lks. wide 8 ft. below top of
 ridge course $N 70^{\circ} E$. arc. gradually.
 39.98 Set an iron post 3 ft. long, 1 in. in diam. 26 ins.
 in the ground for $\frac{1}{4}$ sec. cor. marked out brass
 cap $\frac{1}{4} S 4$ on W. half and $S 3$ on E. half. from
 which
 A cedar 10 ins. in diam. bears $S 83\frac{1}{4}^{\circ} E$ 56 lks.
 dist. marked $\frac{1}{4} S 3 B.T.$ and
 A cedar 12 ins. in diam. bears $S 70^{\circ} W$. 86 lks. dist.
 marked $\frac{1}{4} S 4 B.T.$
 47.00 Top of rocky ridge bears E. and W. desc.
 52.10 Dry rocky ravine 25 lks. wide course N.E. arc.
 58.00 Top of ridge bears N.E. and S.W. desc.
 79.98 The cor. of recs. 3, 4, 9, and 10, hereinbefore described.
 Land hilly.
 Soil sandy and stony 3rd and 4th rate,
 Timber prairie pine and cedar.

April 6th 1911.

March 31st 1911, Ab. 7^h 05^m a.m. I set off
 $36^{\circ}02'$ N. on the lab. arc. $3^{\circ}54\frac{1}{2}'$ N. on the decl.
 arc. and determined a meridian with the solar

Subdivision of T₃₁N, R16E.

Chain

27

at the cor. of sec. 4, 5, 32, and 33. on S. side of
 of T₃₁N, established by Sidney E. Blout, May 25, 1909,
 which is an
 iron post 3 ins. in diam. 12 ins. above ground
 marked on base of R16E. in E. half, T₃₁N. S33
 in N.E., T₃₀N. S4 in S.E., S5 in S.W. and S32 in
 N.W. quadrants, with a mound of stone 2 ft. base
 1 1/2 ft. high. W. of cor. thence down.

S40°33' W. bet. sec. 32. and 33.

Descend N.W. slope over stony hilly land, through
 scattering sage and greasewood, brush under-
 growth and bunch grass.

75 Dry ravine 5 lbs. wide 10 ft. below Cor. course
 S60° W. and rocky S.W. slope.

11.00 Top of rocky ridge 25 ft. above ravine base
 E and W. desc.

12.75 Dry rocky ravine 15 lbs. wide 20 ft. below
 top of ridge course S75° W. and.

19.70 Top of steep ascent, leave hilly land base N40° W
 and S40° E. Enter rolling sandy and stony
 mesa land and scattering cedar timber base.
 N.E. and S.W.

36.00 Leave stony land and timber base N30° E.
 and S30° W. Enter sandy land.

40.00 Set an iron post 3 ft. long. 1 in. in diam. 26 ins.
 in the ground for 1/4 sec. cor. marked on base
 of S32. on W. half, and S33 on E. half
 from which.

A lone cedar 10 ins. in diam. bears: N88° E. 292.
 lbs. dish. marked 1/4 S33. P.T. No other trees
 within limits.

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.
 1/2 ft. high. W. of cor.

50.00 Enter scattering cedar, and pinion pine timber
 base N25° E. and S25° W.

80.00 The point for the cor. of sec. 28, 29, 32, and 33.
 falls on a ledge of solid sand stone. therefore
 at the exact. cor. point Decha cross (+) and ab.

79.10 Set an iron post 3 ft. long. 2 ins. in diam. 24
 ins. in the ground for witness cor. to the cor.
 of sec. 28, 29, 32, and 33, marked on base of

BOOK 2622

W.C. in N. half. T₃₁N., S₂₉ in N.W. R₁₆E S₂₈ in N.E.
S₃₃ in S.E. and S₃₂ in S.W. quadrants, from
which,

A cedar 14 ins. in diam. bears N₂₆¹/₄° E 40 lbs.
dish marked W.C. T₃₁N., R₁₆E. S₃₃ B.T.

A pinon pine 10 ins. in diam. bears S₆₈¹/₄° E 15
lbs. dish, marked W.C. T₃₁N., R₁₆E. S₃₃, B.T.

A cedar 14 ins. in diam. bears S₃₉³/₄° W. 127 lbs. dish
marked W.C. T₃₁N., R₁₆E. S₃₂ B.T. and

A cedar 12 ins. in diam. bears N₄₉¹/₂° W. 66 lbs.
dish, marked W.C. T₃₁N., R₁₆E. S₃₂, B.T.

Land rolling and hilly.

Soil sandy and stony 3rd and 4th rate.

Timber pinon pine and cedar.

From the true point for cor. of secs. 28, 29, 32 and 33, I run,
S₈₉⁵⁸' E, on a random line, bet. secs. 28 and 33.

40.00 Set temp. 1/4 sec. cor.

79.96 Intersect N. and S. line, 5 lbs. N. of the cor. of secs.
27, 28, 33, and 34, thence S run.

N₈₉⁵⁶' W, on a true line bet. secs. 28 and 33.

Around S.E. slope over rolling sandy land through
scattering cedar and pinon pine timber and sage
and greasewood bush undergrowth and brush,
grass.

19.00 Top of sand ridge bears N and S. and S.W. and gently
over N. slope.

39.98 Set an iron post, 3 ft. long 1 in. in diam. 26 ins.
in the ground for 1/4 sec. cor. marked on bear
cap 1/4 S₂₈ on N. half and S₃₃ on S. half, from
which,

A cedar 20 ins. in diam. bears N₂₈¹/₄° E 111 lbs.
dish marked 1/4 S₂₈ B.T. and

A cedar 18 ins. in diam. bears S₃° W. 437 lbs.
dish, marked 1/4 S₃₃ B.T.

52.70 Dry ravine 10 lbs. wide, course S.W. asc.

78.00 Top of spur, bears N. and S.

79.75 Dry ravine 20 lbs. wide, course South asc.

79.96 True point for cor. of secs. 28, 29, 32, and 33.

Land rolling, and hilly.

Soil sandy and stony 3rd and 4th rate.

Timber pinon pine and cedar.

Chain

29

From true point for cor. of secs. 28, 29, 32 and 33, I run,
N. 0° 03' W., beh. seed. 28 and 29,

Ascend. N.E. slope. over stony hilly land, through
scattering cedar and pinion fruit timber and sage
and greasewood brush undergrowth and bunch
grass.

.30 Dry ravine 20 lks. wide course S 25° E. asc
gradually, over South slope.

16.50 Begin abrupt ascent over sand stone bluff
25 ft. high. bears E and W.

17.50 Top of abrupt. ascent. on ledge bears E and W.
ascend gradually.

39.75 Top of sand ridge bears N 60° E. and S 60° W desc.

40.00 See an iron post 3 ft. long 1 in. in diam. 26 ins.
in the ground for $\frac{1}{4}$ sec. cor. marked on brass.
N 52° W. half. and S 28° W. half., from which.
A cedar 8 ins. in diam. bears S 7 $\frac{1}{4}$ ° E 134 lks. dist.
marked $\frac{1}{4}$ S 28 B.T. and

A cedar 4 ins. in diam. bears S 36 $\frac{3}{4}$ ° W 45 lks.
dist. marked $\frac{1}{4}$ S 29 B.T.

70.60 Dry ravine 15 lks. wide course east. asc.

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

80.00 See an iron post 3 ft. long 2 ins. in diam. 24
ins. in the ground for cor. of secs. 20, 21, 28
and 29, marked on brass cap T₃₁N, S 20 in
N.W., R16E, S 21 in N.E., S 28 in S.E. and S 29 in
S.W. quadrants. from which.

A pinion pine 20 ins. in diam. bears N 71 $\frac{1}{2}$ ° E 74
lks. dist. marked T₃₁N, R16E, S 21 B.T.

A pinion pine 6 ins. in diam. bears S 61° E. 102 lks.
dist. marked T₃₁, N, R16E S 28 B.T.

A cedar 18 ins. in diam. bears S 69° W. 75 lks.
dist. marked T₃₁N, R16E, S 29 B.T. and

A pinion pine 12 ins. in diam. bears N 59 $\frac{1}{4}$ ° W
13 lks. dist. marked T₃₁N, R16E, S 20 B.T.

Sand hilly, and broken.

Soil sandy and stony 3rd and 4th rate.

Timber pinion pine and cedar

NOTE: At this cor I set off 3° 58' N. on the decl. arc. and at
noon observe the sun on the meridian and
obtain a reading of 36° 03' N. on the lab. arc.

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- 40.00 $S 89^{\circ} 56' E$, on a random line, bet. sec. 21 and 28,
 Set temp. $\frac{1}{4}$ sec. cor.
 79.92 Intersect N. and S. line, at the cor. of sec. 21
 22, 27, and 28, hereinbefore described, thence I run,
 $N 89^{\circ} 56' W$, on a true line, bet. sec. 21 and 28.
 Over rolling sandy land covered with scattering
 cedar and pinion pine timber and sage brush,
 undergrowth.
 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 $\frac{1}{4} S 21$ on N. half, and $S 28$ on S. half, from
 which.
 A cedar 14 ins. in diam. bears $N 21^{\frac{3}{4}} W$ 21 lbs.
 dist. marked $\frac{1}{4} S 21$ B.T. and
 A cedar 10 ins. in diam. bears $S 13^{\frac{1}{2}} E$ 120 lbs.
 dist. marked $\frac{1}{4} S 28$ B.T.
 41.90 Dry ravine 10 lbs. wide 5 ft. deep course
 South.
 77.60 Dry ravine 25 lbs. wide course $S 60^{\circ} E$.
 desc.
 79.92 The cor. of sec. 20, 21, 28, and 29, hereinbefore
 described.
 Land rolling.
 Soil sandy, 3rd rate
 Timber pinion pine and cedar.

- $N 0^{\circ} 03' W$, bet. sec. 20 and 21,
 descend gradually over N. slope, through scattering
 pinion pine and cedar timber and sage brush,
 undergrowth.
 .75 Dry ravine 20 lbs. wide 5 ft. below cor.
 course East. asc.
 10.00 Top of rocky knoll 30 ft. above ravine desc.
 11.70 Dry ravine 5 lbs. wide course $S 60^{\circ} E$. asc.
 20.00 Top of rocky spur, bears E and W. desc.
 40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins.
 in the ground for $\frac{1}{4}$ sec. cor. marked on brass
 cap $\frac{1}{4} S 20$ on W. half and $S 21$ on E. half,
 from which.
 A cedar 14 ins. in diam. bears $N 46^{\frac{1}{2}} E$ 58 lbs.
 dist. marked $\frac{1}{4} S 21$ B.T. and
 A cedar 14 ins. in diam. bears $N 77^{\circ} W$ 121 lbs.

dish, marked $\frac{1}{4}$ S. 20 B.T.
 41.00 Dry ravine 8 lks. wide course N.E. asc.
 57.00 Top of sand ridge bears N.E. and S.W. desc.
 58.85 Dry ravine 20 lks. wide course S.E. asc.
 70.00 Top of divide bears $N 45^{\circ} E.$ and $S 45^{\circ} W.$ desc
 71.00 Cedar timber bears $N 40^{\circ} E.$ and $S 40^{\circ} W.$
 80.00 Set an iron post 3 ft. long 2 in. in diam
 24 ins. in the ground for cor. of sec. 16, 17, 20
 and 21, marked on brass cap T 31 N, S 17
 in N.W., R 16 E. S 16 in N.E., S 21 in S.E. and
 S 20 in S.W. quadrants.
 Dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dia.
 and raise a mound of earth 4 ft. base, 2 ft.
 high, W. of cor.
 Land hilly and rolling.
 Soil sandy and stony 3rd and 4th rate.
 Timber pinon pine and cedars

$S 89^{\circ} 56' E.$ 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, 10 lks. S. of the cor.
 of sec. 15, 16, 21, and 22, ^{hereinbefore described} thence S run,
 West, on a true line, bet. sec. 16 and 21.
 Descend S.W. slope over rolling sandy land
 through scattering pinon pine and cedar timber
 and sage and greasewood brush undergrowth
 and bunch grass.
 19.40 Enter heavy timber bears N. and S.
 19.45 Dry ravine 15 lks. wide course South asc.
 40.01 Set an iron post, 3 ft. long 1 in. in diam. 26
 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on
 brass cap $\frac{1}{4}$ S 16 on N. half. and S 21 on S.
 half. from which
 A cedar 12 ins. in diam. bears $N 21\frac{1}{2}^{\circ} W$ 222 lks.
 dish marked $\frac{1}{4}$ S 16 B.T. and
 A cedar 18 ins. in diam bears South 19 lks.
 dish marked $\frac{1}{4}$ S 21 B.T.
 41.00 Top of sand ridge bears N.W. and S.E. desc.
 46.50 Dry rocky ravine 10 lks. wide course $S 35^{\circ} E.$
 asc.
 66.00 Top of sand ridge bears N. and S. desc.

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- 69.60 Dry ravine 10 lbs. wide course N.E. ase.
 74.50 Near timber bears N. and S.
 76.00 Top of divide bears N. and S. desc.
 80.02 The cor. of secs. 16, 17, 20, and 21, hereinbefore described.
 Land hilly and rolling.
 Soil sandy and stony $\frac{1}{2}$ and $\frac{1}{4}$ rate.
 Timber pinon pine and cedar.

March 31st 1911

- April 7th 1911 8^h 02^m a.m. l.m.c. D set off. $36^{\circ} 04' 2''$ N.
 on the lat. arc. $6^{\circ} 35'$ N. on the decl. arc, and
 determine a meridian with the solar ab.
 the cor. of secs 16, 17, 20, and 21, ^{hereinbefore described} thence D runs,
 N. $0^{\circ} 03'$ W, bet. secs. 16 and 17,
 Over rolling sandy land through scattering sage
 and greasewood brush undergrowth and
 bunch grass.
 10.00 Enter scattering pinon pine and cedar timber
 bear N.E. and S.W.
 13.60 Top of sand ridge bears 75° E. and 35° W.
 desc. 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 17 on W. half and S 16 on E.
 half. from which.
 A cedar 12 ins. in diam. bears $S 53\frac{1}{2}^{\circ} E 302$ lbs.
 dist. marked $\frac{1}{4}$ S 16 B.T. No other trees
 available.
 Dig pits 18 x 18 x 12 ins. N. and S. of post. 3 ft.
 dia. and raise a mound of earth $3\frac{1}{2}$ ft. base $\frac{1}{2}$
 ft. high. W. of cor.
 42.00 Proof of descent in depression bears E. and W.
 drains to the west. are bears timber bear E. and W.
 78.00 Top of sand ridge bears E. and W. desc.
 80.00 Set an iron post. 3 ft. long 2 ins. in diam.
 24 ins. in the ground. for cor. of secs. 8, 9, 16,
 and 17. marked on brass cap T 31 N. S 8 in
 N.W., R 16 E. S 9 in N.E. S 16 in S.E. and S 17 in
 S.W. quadrants.
 Dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dia.
 and raise a mound of earth 4 ft. base. 2 ft.
 high. W. of cor.

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

- 40.00 East, on a random line, bet. sec. 9 and 16,
Set temp $\frac{1}{4}$ sec. cor.
- 79.98 Intersect N. and S. line, 5 lks. N. of the cor. of
sec. 9, 10, 15 and 16, hereinbefore described, thence run,
N. $89^{\circ} 58' W$, on a true line, bet. sec. 9, and 16,
Ascend S.E. slope over rolling sandy land through
scattering prairie pine and cedar timber
and sage brush undergrowth.
- 25.00 Note of divide bears N. $30^{\circ} E$. and $S 30^{\circ} W$.
Slope gradually.
- 39.99 Set an iron post 3 ft. long 1 in. in diam. 26
ins. in the ground for $\frac{1}{4}$ sec. cor. marked
on brass cap $\frac{1}{4} S 9$ on N. half and $S 16$ on S.
half from which.
- A cedar 7 ins. in diam. bears N $86^{\circ} \frac{3}{4} E$ 122 lks.
dist. marked $\frac{1}{4} S 9$ B.T. and
- A cedar 7 ins. in diam. bears $S 22^{\circ} W$. 276 lks.
dist. marked $\frac{1}{4} S 16$ B.T.
- 42.50 Level timber bears N.E. and S.W.
- 79.98 The cor. of sec. 8, 9, 16, and 17, hereinbefore described.
Land rolling.
Soil sandy 3rd rate.
Timber prairie pine and cedar.

N $0^{\circ} 03' W$. bet. sec. 8 and 9.
Descend north slope over rolling sandy land,
through scattering sage and greasewood, brush,
undergrowth and bunch grass.

- 22.00 Enter scattering prairie pine and cedar
timber bears N $50^{\circ} W$. and $S 50^{\circ} E$.
- 40.00 Set an iron post 3 ft. long 1 in. in diam. 26
ins. in the ground for $\frac{1}{4}$ sec. cor. marked
on brass cap $\frac{1}{4} S 8$ on W. half and $S 9$ on E.
half from which.
- A cedar 7 ins. in diam. bears N $40^{\circ} \frac{1}{2} E$ 252 lks.
dist. marked $\frac{1}{4} S 9$ B.T. and.

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A cedar 8 ins. in diam. bears S $61\frac{3}{4}^{\circ}$ W. 371 lks.
dist. marked $\frac{1}{4}$ S 8 B.T.

NOTE: At this cor. I set off $6^{\circ}38'$ N. on the decl. arc.
and at noon observe the sun on the meridian
and obtain a reading of $36^{\circ}05\frac{1}{2}'$ N. on the
lat. arc.

- 43.40 Dry ravine 6 lks. wide course S.W., ascend.
60.00 Top of sand ridge bears N.E. and S.W. desc.
70.00 Dry ravine 25 lks. wide course N.W. asc.
80.00 Set an iron post 3 ft. long. 2 ins. in diam.
24 ins. in the ground for cor. of sec. 4, 5, 8, and
9, marked on brass cap. T₃₁N, S 5 in N.W. R,
16 E. S 4 in N.E., S 9 in S.E. and S 8 in S.W.
quadrant. from which.
A cedar 4 ins. in diam. bears N 15° E 135 lks.
dist. marked T₃₁N, R₁₆E. S 4 B.T.
A pinon pine 10 ins. in diam. bears S $24\frac{1}{4}^{\circ}$ E 187.
lks. dist. marked T₃₁N, R₁₆E. S 9 B.T.
A cedar 6 ins. in diam. bears S $35\frac{1}{4}^{\circ}$ W. 182 lks.
dist. marked T₃₁N, R₁₆E. S 8 B.T. and
A cedar 8 ins. in diam. bears N $27\frac{3}{4}^{\circ}$ W. 174
lks. dist. marked T₃₁N, R₁₆E. S 5 B.T.
Land rolling and hilly.
Soil sandy and stony 3rd and 4th rate.
Timber pinon pine and cedar

- S $89^{\circ}58'$ E. on a random line, bet. sec. 4 and 9.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
80.08 Intersect N. and S line, 3 lks. S. of the cor. of
sec. 3, 4, 9, and 10, hereinbefore described, thence I run,
N $89^{\circ}59'$ W., on a true line, bet. sec. 4 and 9,
Descend over hilly land, through
scattering pinon pine and cedar timber
and sage bush undergrowth
6.00 Dry ravine 30 lks. wide, 10 ft. below cor.
course S.W. asc.
15.70 Top of rocky ridge bears N.E. and S.W. desc.
34.30 Dry rocky ravine 40 ft. below top of ridge
course S.W. asc.
40.04 Set an iron post 3 ft. long, 1 in. in diam.

Submission of Pp. 31 N. R. 16 E.

Chains

- 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap. $\frac{1}{4}$ S 4 on N. half. and S 9, on S. half from which.
- A cedar 7 ins. in diam. bears $N 50^{\circ} W. 30$ lbs. dish. marked $\frac{1}{4}$ S 4 B.T. and
- A cedar 5 ins. in diam. bears $S 8^{\circ} W. 51$ lbs. dish. marked $\frac{1}{4}$ S 9, B.T.
- 43.00 Top of high rocky ridge bears $N. E.$ and $S. W.$ desc.
- 80.08 The cor. of. sec. 4, 5, 8, and 9, hereinbefore described. Land hilly. Soil sandy and stony 3rd and 4th rate. Timber pinon pine and cedar.

- 40.00 $N. 0^{\circ} 03' W.$, on a random line, bet. sec. 4 and 5. Set temp. $\frac{1}{4}$ sec. cor.
- 80.10 Intersect N. by $N. 5^{\circ} 58' 55'' E.$ of the cor. of. sec. 4, 5, 32, and 33, recently estab. by me as described in Exterior, Book "AU", thence 1 run. $S. 0^{\circ} 05' E.$, on a true line, bet. sec. 4 and 5. Descend along W. slope over rolling sandy land through scattering sage and greasewood bush undergrowth and bunch grass.
- 35.50 Enter scattering pinon pine and cedar timber
- 40.10 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap. $\frac{1}{4}$ S 5 on W. half. and S 4 on E. half. from which. A cedar 8 ins. in diam. bears $N 44 \frac{1}{2}^{\circ} E 305$ lbs. dish. marked $\frac{1}{4}$ S 4 B.T. and A cedar 14 ins. in diam. bears $N 44^{\circ} W. 209$ lbs. dish. marked $\frac{1}{4}$ S 5 B.T.
- 44.10 Dry ravine 15 lbs. wide 20 ft. below $\frac{1}{4}$ sec. cor. course $N 60^{\circ} W.$ acc.
- 47.60 Top of sand ridge bears $N. W.$ and $S. E.$ desc.
- 51.30 Dry rocky ravine 15 ft. below top of ridge course $N. W.$ acc.
- 78.00 Top of ridge bears $E.$ and $W.$ desc.
- 80.10 The cor. of. sec. 4, 5, 8, and 9, hereinbefore described. Land rolling and hilly. Soil sandy and stony 3rd and 4th rate.

Timber fusion pine and cedar.

April 7th 1911

BOOK 2622

April 1st 1911; Ab. 7^h 04^m a.m. l.m.t. Desh. off.
36°02' N. on the lat. arc. 4°18' N. on the decl. arc.
and determine a meridian with the solar
at the cor. of sec. 5, 6, 31, and 32. on S. Dry. of
Twp. established by Sidney E. Blout, May 25, 1909,
which is an iron post. 3 ins. in diam.
12 ins. above ground, firmly set. marked on brass
cap R 16 E. in E. half. T 31 N. S 32 in N.E. T 30 N S
5 in S.E., S 6 in S.W. and S 31 in N.W. quadrant
from which.

A fusion pine 6 ins. in diam. bears N 43° E 123 lbs.
dist. marked T 31 N, R 16 E S 32 B.T.

A cedar 6 ins. in diam. bears S 42° E. 179 lbs. dist.
marked T 30 N, R 16 E. S 5 B.T.

A fusion pine 8 ins. in diam. bears S 50° W. 166
lbs. dist. marked T 30 N, R 16 E. S 6 B.T. and

A cedar 4 ins. in diam. bears N 13° W. 63 lbs.
dist. marked T 31 N, R 16 E. S 31 B.T., thence
Drum.

N. 0° 03' W., set. sec. 31 and 32,

Over S.W. slope covered with scattering fusion
pine and cedar timber and sage and greasewood
bush undergrowth

11.40 Top of rocky ridge bears E. and W. desc.

23.35 Dry rocky ravine 25 lbs. wide course S 50° W. asc.

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

40.00 Set an iron post. 3 ft. long 1 in. in diam. 26 ins.
in the ground for $\frac{1}{4}$ sec. cor. marked on brass
cap $\frac{1}{4}$ S 31 on W. half and S 32 on E. half.
from which.

A fusion pine 12 ins. in diam. bears N 16 $\frac{1}{4}$ ° W 116
lbs. dist. marked $\frac{1}{4}$ S 31 B.T. and

A cedar 14 ins. in diam. bears S 73 $\frac{1}{4}$ ° E 85
lbs. dist. marked $\frac{1}{4}$ S 32 B.T.

40.45 Dry ravine 20 lbs. wide course S 45° W. asc.

50.80 Top of sand stone ledge 8 ft. high. bears E. and W.
asc. gradually.

80.00 Set an iron post 3 ft. long 2 ins. in diam. 24
ins. in the ground for cor. of sec. 29, 30, 31
and 32. marked on brass cap.

Subdivision of T31N, R16E.

Chain

T31N, S30 in NW. R16E. S29 in NE. S32. in SE. and S31 in SW. quadrant. from which.
 A pinon pine 6 in. in diam. bears N58½°E 75 lbs. dist. marked T31N, R16E S29 B.T.
 A pinon pine 12 in. in diam. bears S29°E 101 lbs. dist. marked T31N, R16E. S32 B.T.
 A pinon pine 14 in. in diam. bears S37½°W. 125 lbs. dist. marked T31N, R16E. S31 B.T. and
 A pinon pine 8 in. in diam. bears N57½°W. 133 lbs. dist. marked T31N, R16E. S30 B.T.
 Land hilly.
 Soil sandy and stony 3rd and 4th rate.
 Timber pinon pine and cedar.

- 40.00 S89°58'E, on a random line, bet. sec. 29, and 32. Set temp ¼ sec. cor.
- 80.02 Intersect N. and S. line, 8 lbs. N. of the cor. of sec. 28, 29, 32, and 33, hereinbefore described, thence 1 run, N89°55' W, on a true line, bet. sec. 29 and 32, ascend E. slope over hilly sandy land through scattering pinon pine and cedar timber and sage and greasewood brush undergrowth.
- 4.00 Top of ridge bears N. and S. desc.
- 24.00 Dry ravine 8 lbs. wide Course South, asc.
- 33.00 Top of sand ridge bears N. and S. desc.
- 40.01 Set an iron fork 3 ft. long 1 in. in diam. 26 in. in the ground for ¼ sec. cor. marked on bears top ¼ S 29 on N. half and S32. on S. half from which.
 A cedar 12 in. in diam. bears N88½°W. 171 lbs. dist. marked ¼ S29 B.T. and
 A pinon pine 18 in. in diam. bears S16°W. 103 lbs. dist. marked ¼ S32, B.T.
- 42.60 Dry ravine 15 lbs. wide Course South, asc.
- 57.15 Begin abrupt ascent over sand stone ledge 15 ft. high.
- 58.30 Top of ledge bears N. and S. Land hilly land bears N. and S. Ascend over rolling sandy land.
- 80.02 The cor. of sec. 29, 30, 31, and 32, hereinbefore described.
 Land rolling and hilly.
 Soil sandy and stony 3rd and 4th rate

BOOK 2622

Timber furrow pine and cedar

N. $89^{\circ}58'W$, on a random line, bet. sec. 30 and 31
40.00 Set temp. $\frac{1}{4}$ sec. cor.

78.54 Intersect W. ldy. of $\frac{1}{4}$ sec. S. of the cor. of
sec. 25, 30, 31, and 36, estab. by me in Dec. 1910 as described in
Exterior Book "AT", thence I run,

S. $89^{\circ}56'E$, on a true line, bet. sec. 30 and 31

Ascend over rolling sandy mesal land, through scattering
furrow pine and cedar timber and sage brush, under-
growth and bunch grass.

11.00 Clear timber bears N. and S.

30.00 Enter scattering cedar timber bears N. and S.
dec. gradually, over S.E. slope.

38.54 Set an iron post 3 ft. long 1 in. in diam. 26 ins.
in the ground for $\frac{1}{4}$ sec. cor. marked on brass
cap $\frac{1}{4}$ S 30 on N. half and S 31 on S. half, from
which.

A furrow pine 10 ins. in diam. bears $N 25\frac{1}{2}^{\circ}E$. 65
lbs. dist. marked $\frac{1}{4}$ S 30 B.T. and.

A furrow pine 7 ins. in diam. bears $S 5^{\circ}W$. 102 lbs.
dist. marked $\frac{1}{4}$ S 31 B.T.

49.45 Dry ravine 25 lbs. wide course south, asc.

78.54 The cor. of sec. 29, 30, 31, and 32, hereinbefore described.

Land rolling and broken.

Soil sandy and stony 3rd and 4th rate.

Timber furrow pine and cedar.

NOTE: At this cor. I set off $4^{\circ}21'N$ on the decl. arc. and
ob. now observe the sun on the merid. arc. and
obtain a reading of $36^{\circ}03'N$ on the lat. arc.

N. $0^{\circ}03'W$, bet. sec. 29, and 30.

Ascend S.E. slope over rolling sandy land through
scattering furrow pine and cedar timber and
sage brush undergrowth.

19.30 Top of divide bears $N 65^{\circ}E$. and $S 65^{\circ}W$ desc.

29.00 Clear timber bears $N 30^{\circ}E$. and $S 30^{\circ}W$.

40.00 Set an iron post 3 ft. long 1 in. in diam. 26
ins. in the ground for $\frac{1}{4}$ sec. cor. marked
on brass cap $\frac{1}{4}$ S 30 on W. half and S 29, on
E. half.

W.

Chains

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

80.00 Set an iron post 3 ft. long 2 ins. in diam. 24 ins. in the ground for cor. of secs. 19, 20, 29, and 30, marked on brass cap T₃₁N, S₁₉ in N.W. R₁₆E S₂₀ in N.E. S₂₉ in S.E. and S₃₀ in S.W. quadrants, from which

A cedar 7 ins. in diam. bears N 71° E. 329 lks. dist. marked T₃₁N, R₁₆E S₂₀ B.T. and

A cedar 10 ins. in diam. bears S 81 1/4° E. 379 lks. dist. marked T₃₁N, R₁₆E S₂₉ B.T. No other trees available

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

Land rolling
Soil sandy 3rd rate.
Timber furrow pine and cedar

89° 55' E, on a random line, bet. Secs. 20 and 29,
40.00 Set temp. 1/4 sec. cor.

80.08 Intersect N. and S. line, at the cor. of secs. 20, 21, 28, and 29, hereinbefore described, thence I run, N. 89° 55' W., on a true line, bet. secs. 20 and 29, ascend N.E. slope over hilly sandy land, through scattering furrow pine and cedar timber and sage brush undergrowth

27.00 Top of sand ridge bears NW and S desc

28.05 Dig ravine 15 lks. wide 25 ft. below top of ridge course South asc.

32.50 Top of divide bears N and S. desc. gradually over West slope

33.00 Leave timber bears N. and S.

40.04 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 S₂₀ on N. half. and S₂₉ on S. half.

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

BOOK 2622

- 46.50 Center scattering pinon pine and cedar timber bears N. and S.
- 76.50 Bear timber bears N. and S.
- 80.08 The cor. of secs. 19, 20, 29, and 30, hereinbefore described.
Land rolling and hilly.
Soil sandy and stony 3rd and 4th rate.
Timber pinon pine and cedar.

- N. 89° 56' W., on a random line, bet. secs. 19 and 30.
- 40.00 Sec. temp. 1/4 sec. cor.
- 78.52 Intersect W. bdy. of Twp; 8 lks. S. of the cor. of secs. 19, 24, 25 and 30, estab. by me in Dec. 1910, as described in Exterior Book "AT", thence I run,
S. 89° 53' E., on a true line, bet. secs. 19 and 30,
Over rolling sandy land covered with scattering sage and greasewood brush undergrowth and bunch grass.
- 20.50 Center scattering pinon pine and cedar timber bears N. and S.
- 25.75 Dry ravine 30 lks. wide course N 25° W. all gradually, over N.W. slope.
- 38.52 Saw iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for 1/4 sec. cor. marked on brass cap. N 45 19 on N. half, and S 30 on S. half. from which.
A cedar 10 ins. in diam. bears N 74 1/4° E 58 lks. dish. marked 1/4 S 19 B.T. and
A cedar 14 ins. in diam. bears S 10° E 86 lks. dish. marked 1/4 S 30 B.T.
- 40.00 Bear timber bears N. and S.
- 78.52 The cor. of secs. 19, 20, 29, and 30, hereinbefore described.
Land rolling.
Soil sandy 3rd rate.
Timber pinon pine and cedar

April 1st 1911

April 8th 1911
At 7^h 02^m a.m. l. and D. set off 36° 03' 1/2 N. on the lat. arc. 6° 57' 1/2 N. on the decl. arc and determine a meridian, with the solar at the cor. of secs. 19, 20, 29, and 30, hereinbefore described, thence I run,
N. 0° 03' W., bet. secs. 19 and 20,

Chain

41

- Descend N.W. slope over rolling sandy land through scattering sage and greasewood bush undergrowth and bunch grass
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap $\frac{1}{4}$ S 19° W. half and S 20° W. E. half.
Two pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dia. and raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
- 76.00 Enter scattering pine and cedar timber bears N 45° W. and S 45° E.
- 80.00 Set an iron post, 3 ft. long, 2 in. in diam. 24 ins. in the ground for cor. of secs. 17, 18, 19, and 20. marked on brass cap. T 31 N, S 18 in N.W., R 16 E. S 17 in N.E., S 20 in S.E. and S 19 in S.W. quadrants, from which
A cedar 12 ins. in diam. bears N 66 $\frac{3}{4}$ ° E 93 lbs. dia. marked T 31 N, R 16 E. S. 17 B.T.
A cedar 10 ins. in diam. bears S 67° E 193 lbs. dia. marked T 31 N R 16 E. S. 20 B.T.
A cedar 9 ins. in diam. bears S 35 $\frac{1}{2}$ ° W. 373 lbs. dia. marked T 31 N, R 16 E. S 19 B.T. and,
A cedar 7 ins. in diam. bears N 56 $\frac{3}{4}$ ° W. 199 lbs. dia. marked T 31 N, R 16 E. S 18 B.T.
- Land rolling.
Soil sandy 3rd rate.
Timber pine and cedar

- S 89° 55' E, on a random line, bet. secs. 17 and 20.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.06 Intersect N. and S. line, 5 lbs. N. of cor. of secs. 16, 17, 20, and 21, hereinbefore described, thence run, N. 89° 53' W., on a true line, bet. secs. 17 and 20.
- Descend W. slope over rolling sandy land through scattering sage and greasewood brush undergrowth and bunch grass.
- 6.00 Enter scattering pine and cedar timber bears N 60° E and S 60° W.
- 40.03 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap $\frac{1}{4}$ S 17° W. half and S 20° W. S. half, from

which.

A cedar 10 ins. in diam. bears $N 51 \frac{1}{4}^{\circ} E$ 223 lks.
 dir. marked $1/4 S. 17 B.T.$. No other trees available
 Dig pits $18 \times 18 \times 12$ ins. E. and W. of post 3 ft. dia.
 and raise a mound of earth $3 \frac{1}{2}$ ft. base, $1 \frac{1}{2}$
 ft high N. of cor.

80.06 The cor. of secs. 17, 18, 19, and 20, hereinbefore
 described.

Land rolling.

Soil sandy 3rd rate.

Timber pinion pine and cedar,

40.00 $N 89^{\circ} 53' W$, on a random line, bet. secs 18 and 19.
 Set temp. $1/4$ sec. cor.

78.42 Intersects W. l. line, of Twp., 10 lks. N. of the cor.
 of secs. 13, 18, 19, land 24, estab. by me in Dec. 1910 as described
 in Exterior Book "AT", thence I run,

$S 89^{\circ} 57' E$, on a true line, bet. secs. 18 and 19.

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

38.42 Set an iron post 3 ft. long 1 in diam. 26 ins.
 in the ground for $1/4$ sec. cor. marked on brass
 cap. $1/4 S 18$ on N. half. and $3 19$, on S. half
 Dig pits $18 \times 18 \times 12$ ins. E. and W. of post. 3 ft.
 dia. and raise a mound of earth $3 \frac{1}{2}$ ft.
 base, $1 \frac{1}{2}$ ft. high. N. of cor.

43.40 Pop. of gradual ascent on ridge bears
 N and S. desc.

73.30 Dry ravine 10 lks. wide course north. arc.
 Enter scattering pinion pine and cedar timber
 bears NW. and SE.

78.42 The cor. of secs. 17, 18, 19, and 20, hereinbefore described.
 Land rolling.

Soil sandy 3rd and 4th rate.

Timber pinion pine and cedar.

$N 0^{\circ} 03' W$, bet. secs. 17, and 18;

Descend NW slope over rolling sandy and stony
 land, through scattering pinion pine and cedar
 timber and sage and greasewood brush under
 growth and bunch grass

Subdivision of Tp 31 N., R 16 E.

- 4.85 Dry ravine 10 lks. wide, 8 ft. below cor. corner
thech. are. over hilly land.
- 12.00 Top of sand ridge bears E and W. due.
- 21.85 Dry ravine 20 ft. below top of ridge corner 365°W
due.
- 25.00 Leave timber bears E and W.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins
in the ground for 1/4 sec. cor. marked on brass
cap 1/4 S 18 on W. half and S 17 on E. half.
Dig pits 18 x 18 x 12 ins. N and S. of post 3 ft. dist,
and raise a mound of earth 3 1/2 ft. base 1 1/2
ft. high, W. of cor.

NOTE: At this cor set off 7° 01' N. on the decl. arc and
at noon observe the sun on the meridian and
obtain a reading of 36° 05' N. on the lab. arc.

- 50.00 Leave hilly land bears N.E. and S.W. Enter rolling
sandy land bears N.E. and S.W.
- 80.00 Set an iron post 3 ft. long 2 ins. in diam. 24
ins. in the ground for cor. of secs. 7, 8, 17, and 18
marked on brass cap T 37 N 37 in N.W., R 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. dist.
and raise a mound of earth 7 ft. base 2 ft. high.
W. of cor.
Land rolling and hilly.
Soil sandy 3rd and 4th rote.
Timber pinon pine and cedar

- 889° 53' E, on a random line, bet. secs 8 and 17.
- 40.00 Set temp 1/4 sec. cor.
- 80.08 Intersect N. and S. line, 3 lks. S. of the cor. of secs.
8, 9, 16 and 17, hereinbefore described, thence I run,
N 89° 54' W, on a true line, bet. secs. 8 and 17,
Descend gradually over N.W. slope, through
scattering sage and greasewood brush, under-
growth and bunch grass.
- 20.00 Enter scattering pinon pine and cedar timber
bears N. and S.
- 40.04 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 8 on N. half and S 17, on S. half, from which

BOOK 2622

A cedar 8 ins. in diam. bears S $44\frac{1}{2}^{\circ}$ W. 276 lbs
dist. marked $\frac{1}{4}$ S 17 B.T. No other trees available.
Dig pits 18x18x12 ins East W. of post. 3 ft.
dist. and raise a mound of earth $3\frac{1}{2}$ ft. base. $1\frac{1}{2}$
ft. high. N. of cor.

62.00 Cedar timber bears N and S.

80.08 The cor. of secs. 7, 8, 17, and 18 hereinbefore described.
Land rolling.
Soil sandy 3rd rate.
Timber pinon pine and cedar

N. $89^{\circ} 57' W$, on a random line, bet. secs 7 and 18
40.00 Set temp. $\frac{1}{4}$ sec. cor.

78.38 Intersect W. bdy. of Twp, 8 lbs S. of the cor. of
secs. 7, 12, 13, and 18; estab. by me in Dec. 1910, as described in
Exterior Book "AT"; thence I run,

S $89^{\circ} 54' E$, on a true line, bet. secs. 7 and 18.

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

38.38 Set an iron post 3 ft long in diam. 26 ins.
in the ground for $\frac{1}{4}$ sec. cor. marked on brass
cop $\frac{1}{4}$ S 70 W N. half and S 18, on S. half.

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

48.00 Foot of descent in depression bears N.E. and S.W.
drains to the S.W. side, gradually.

78.38 The cor. of secs. 7, 8, 17, and 18, hereinbefore described.

Land rolling.

Soil sandy 3rd rate.

No timber

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

Over rolling sandy land covered with scattering
sage and greasewood brush undergrowth and
bunch grass.

39.00 Entire scattering pinon pine and cedar
timber bears E and W.

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

Subdivision of Twp 31 N, R 16 E.

45

Chains

- $\frac{1}{4}$ S 7 on W. half and 38 on E. half. Low white, A red w 24 ins. in diam. bears S $46\frac{1}{2}^{\circ}$ E 300 lbs. dist., marked $\frac{1}{4}$ 38 B.T. and.
- A cedar 10 ins. in diam. bears S $45\frac{1}{4}^{\circ}$ W. 99 lbs. dist. marked $\frac{1}{4}$ 37 B.T.
- 43.00 Begin gradual descent 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. 5, 6, 7, and 8, marked on brass cap T 31 N 36 in T 31 N, R 16 E. S 5 in N.E., S 8 in S.E. and S 7 in S.W. quadrants, from which.
- A cedar 24 ins. in diam. bears S $46\frac{1}{2}^{\circ}$ E 300 lbs. dist., marked T 31 N, R 16 E. S 8 B.T.
- No other trees available.
- Dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist.
- Dry raise a mound of earth 4 ft. base, 2 ft. high. W. of cor.
- Land rolling.
- Soil sandy 3rd rate.
- Timber prairie pine and cedar.
-
- April 8th 1911
- April 10th 1911, Ch. 9^h 01^m a.m. Land set off.
- $36^{\circ}06'$ N. on the lat. arc, $7^{\circ}43'$ N. on the decl. arc. and determine a meridian with the solar at the cor. of sec. 5, 6, 7, and 8, ^{above described} thence I run S $89^{\circ}54'$ E. on a random line, bet. sec. 5 and 8,
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.10 Intersect N and S. line, 5 lbs. N. of the cor. of sec. 4, 5, 8, and 9, hereinbefore described, thence I run N. $89^{\circ}52'$ W., on a true line, bet. sec. 5 and 8.
- Descend. West slope over hilly, sandy and stony land through scattering prairie pine and cedar timber and scattering sage and greasewood brush undergrowth and bunch grass.
- 12.55 Dry rocky prairie 12 lbs. wide course N 30° W dec.
- 23.00 Top of sand ridge bears N. and S. desc.
- 28.50 Dry prairie 20 lbs. wide course N.W. asc.
- 40.05 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap $\frac{1}{4}$ 35 on N. half and S 8. on S. half. from which.

BOOK 2622

A cedar 20 ins. in diam. bears $N66^{\circ}E$, 138 lks. dist. marked $\frac{1}{4}$ S 5 B.T. and.
 A cedar 12 ins. in diam. bears $S73\frac{1}{2}^{\circ}E$ 365 lks. dist. marked $\frac{1}{4}$ S 8 B.T.
 43.00 Top of sand ridge bears N and S. desc.
 71.85 Dry rocky ravine 15 lks. wide course $N65^{\circ}W$. desc.
 73.00 Top of sand ridge bears N.W. and S.E. desc.
 80.10 The cor. of secs. 5, 6, 7, and 8, hereinbefore described.
 Sand hilly.
 Soil sandy and stony 3rd and 4th rate.
 Timber Gum and pine and cedar

$N89^{\circ}54'W$, on a random line, bet. secs. 6 and 7.
 40.00 Set temp $\frac{1}{4}$ sec. cor.
 78.26 Intersect W. ldy. of Twp. 3 lks N. of the cor. of secs. 1, 6, 7, and 12, estab. by me in Dec. 1916, as described in Exterior Book "AT," thence I run,
 $S89^{\circ}55'E$ on a true line, bet. secs. 6 and 7.
 Ascend N.W. slope over rolling sandy land, through sage and greasewood bet. underground and bunch grass.
 16.75 Top of sand ridge bears N.E. and S.W. desc.
 38.26 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. Dig pits 18 x 18 x 12 ins. East W. of post 3 ft. deep, and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high. N. of cor.
 59.25 Dry ravine 10 lks. wide course north. asc.
 63.20 Top of sand ridge bears N and S. desc.
 78.26 The cor. of secs. 5, 6, 7, and 8, hereinbefore described.
 Land rolling and hilly.
 Soil sandy 3rd and 4th rate.
 No timber
 NOTE: At this cor. I set off $7^{\circ}44\frac{1}{2}'N$ on the decl. arc and at noon observe the sun on the meridian and obtain a reading of $36^{\circ}06'N$ on the lab. arc.

$N0^{\circ}03'W$, on a random line, bet. secs. 5 and 6.

chains

- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.04 Intersect N. l. of Twp. at the cor. of secs. 5, 6, 31 and 32, ^{recently estab. by me as described in Exterior Book "AU"; thence 1 run,} $S.0^{\circ}03' E.$, on a true line, bet. secs. 5 and 6, ascend ^{over} stony hilly land through scattering pine, fir and cedar timber and sage and greasewood bush undergrowth.
- 7.40 Top of sand ridge bears N.E. and S.W. desc.
- 13.15 Dry rocky ravine 25 lks. wide 30 ft. below top of ridge course $S.60^{\circ} W.$ asc.
- 38.00 Top of rocky ridge bears E and W. desc.
- 40.04 Set an iron post 3 ft. long 1 in. in diam. 26 ins in the ground at $\frac{1}{4}$ sec. cor. marked on base cap $\frac{1}{4}$ 36 on W. half and 35 on E. half. from which
- A cellar 8 ins. in diam. bears $S.47\frac{1}{2}^{\circ} W.$ 182 lks. dia. marked $\frac{1}{4}$ 36 B.T. No other trees available
- Dig pits 18x18x12 ins. N and S. of post 3 ft. dia. and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high W. of cor.
- 55.20 Dry ravine 15 lks. wide, 20 ft. below $\frac{1}{4}$ sec. cor. course N.W. asc.
- 73.45 Top of sand ridge bears N.W. and S.E. desc.
- 75.90 Dry ravine 12 lks. wide course $N.65^{\circ} W.$ asc.
- 80.04 The cor. of secs. 5, 6, 7, and 8, hereinbefore described. Land hilly. Soil sandy and stony 3rd and 4th rate. Timber scattered pine, fir and cedar

April 10th 1911

General Description

The land in this township is nearly all very hilly and broken, with some level land in the valley along the De Nebito Wash which crosses the south eastern corner of the township in a south westerly direction. The soil of the bottom land along the De Nebito Wash in the south eastern part of the township is a sandy loam, capable of producing certain kinds of short season crops without irrigation

BOOK 2622

The soil of the remaining portion of the township now nearly all be classed as 3rd and 4th rate, is covered with an abundant growth of bunch grass. but is not suitable for farming purposes. owing to its rough character.

Scrub cedar timber is found scattered over a large portion of the township, but is too small to be of any commercial value except for domestic uses.

Outcropping ledges of sand stone were found in several places in the township, and from surface indications it is very probable that large bodies of sand stone underlie the central portion of the township. The stone however is very soft and disintegrated upon exposure to climatic conditions. No minerals of any kind were discovered in this township.

The township is poorly watered, the only water found being in a spring in sec. 27.

There are several Navajo Indian families residing in the township.

Jan L. White
U.S. Geologist

April 10-1911

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

LIST OF NAMES.

A list of the names of the individuals employed by Van L. White
U.S. Transitman, ~~United States Deputy Surveyor~~, to assist in running, measuring, and
marking the lines and corners described in the foregoing field notes of the survey of the Subdivision lines
of Tp 31 N R 16 E, G. & S. R. B. & M., Arizona
showing the respective capacities in which they acted:

- T. Y. White, Chainman.
- Richard L. Shumway, Chainman.
- George B. Seig, Moundman.
- Herbert Yestera, Moundman.
- Nelson Polacca, Axman.
- Carl Albright, Axman.
- William R. Carson, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Van L. White
U.S. Transitman, ~~United States Deputy Surveyor~~, in surveying all
those parts or portions of the Subdivision lines of Tp 31 N. R 16
E.

of the Sila and
Salt River Basins Meridian, Territory of Arizona, which are represented
in the foregoing field notes as having been surveyed by him and under his direction; and that said survey
has been in all respects, to the best of our knowledge and belief, well and faithfully ~~surveyed~~ ^{executed}, and the
corner monuments established, according to the instructions furnished by the ~~United States Surveyor~~
~~General~~ Commissioner of the General Land Office.

- T. Y. White, Chainman.
- Richard L. Shumway, Chainman.
- George B. Seig, Moundman.
- Herbert Yestera, Moundman.
- Nelson Polacca, Axman.
- Carl Albright, Axman.
- William R. Carson, Flagman.

Subscribed and sworn to before me this 15th
day of May, 1911

Van L. White
U.S. Transitman



BOOK 2622

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

I, Van L. White ^{U.S. Transitman}, ~~United States Deputy Surveyor~~, do solemnly swear that, in pursuance of ~~contract~~ ^{Special Instructions} received from ~~the Commissioner of the United States Surveyor General for~~ ^{the Commissioner of the General Land Office}, bearing date of the 2nd day of Oct. 1907 ~~day of~~ and the 15th day of May, 1908, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States ~~Surveyor~~ ^{Commissioner} of the ~~General Land Office~~, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the Subdivision lines of Township No. 31 North, of Range No. 16 East

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

Van L. White
~~United States Deputy Surveyor~~
^{Transitman}

Subscribed by said Van L. White, and sworn to before me }
this 27th day of December, 1912.



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

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona APR 25 1, 1914

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

Township No 31 North, Range No 16 East of the

Gila and Salt River Base and Meridian, Arizona

executed by VAN L. WHITE, U.S. Transitman, under Special Instructions from
executed by the Commissioner of the General Land Office
under his contract No. _____, dated October 2, 1907 and May 15, 1908, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank S. Ingalls
~~United States Surveyor General~~
SURVEYOR-GENERAL OF ARIZONA

~~I certify that the foregoing transcript of the field notes of the above-described surveys in _____~~
~~_____ has been correctly copied from the original notes on file in this office.~~

~~United States Surveyor General~~