

Subdivisional  
BOOK "ZT"

2634

BOOK 2624

FIELD NOTES

OF THE SURVEY OF THE

*Subdivision lines of Tp 31 N. R. 18 E.*

[Lined area for field notes]

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

EXECUTED  
AS SURVEYED BY

*Van L. White, U.S. Patentman, United States Deputy Surveyor,*  
*Special Instructions from the Commissioner of the General Land Office,*  
Under ~~his Contract No.~~, dated *Oct 2<sup>nd</sup> 1907 and May 16<sup>th</sup> 1908*

Survey commenced *April 29<sup>th</sup>*, 1911

Survey completed *May 11<sup>th</sup>*, 1911

1A

BOOK 2624

NAMES AND DUTIES OF ASSISTANTS.

T. Y. White	Chairman
Richard L. Shumway	Chairman
Carl Albright	Mouldman
Harry D. Cates	Axman
Nelson Polacca	Axman
William R. Conson	Flagman

Blank handwriting practice lines.

BOOK 2624

Book No. 2624

# INDEX DIAGRAM.

Township 31 N., Range 18 E.

6	46	5	36	4	28	3	20	2	10	1
45		45		35		27		19		9
7	44	8	34	9	27	10	18	11	8	12
44		43		34		26		17		7
18	42	17	33	16	25	15	16	14	7	13
41		41		32		24		16		6
19	40	20	32	21	23	22	15	23	5	24
40		39		31		23		14		4
30	38	29	30	28	22	27	13	26	3	25
38		37		30		21		12		2
31	36	32	29	33	20	34	11	35	1	36

Meanders Page .....

PRELIMINARY OATHS OF ASSISTANTS.

WE, T. G. 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 18 E, G. & S. R. B. & M., Arizona.

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

Subscribed and sworn to before me this 25<sup>th</sup>  
day of April, 1911



Van L. White  
U.S. Transitman

~~WE~~ Carl Albright  
do solemnly swear that ~~we~~ will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given ~~us~~ to the best of ~~my~~ skill and ability, in the survey of the Subdivision lines of Tp 31 N. R. 18 E, G. & S. R. B. & M., Arizona.

Carl Albright, Moundman.  
~~Moundman~~

Subscribed and sworn to before me this 25<sup>th</sup>  
day of April, 1911



Van L. White  
U.S. Transitman

WE, Harry D. Cates and Nelson Polacca  
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 18 E, G. & S. R. B. & M., Arizona.

Harry D. Cates, Axman.  
Nelson Polacca, Axman.

Subscribed and sworn to before me this 25<sup>th</sup>  
day of April, 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. 18 E, G. & S. R. B. & M., Arizona.

William R. Carson, Flagman.

Subscribed and sworn to before me this 25<sup>th</sup>  
day of April, 1911



Van L. White  
U.S. Transitman

## Subdivision of Twp 31 N., R 18 E.

Chains

10

Survey commenced April 27<sup>th</sup> 1911, and executed with a W<sup>and</sup> L. E. Gurley engineers transit no. 76, with a Burt Solar Attachment the horizontal limb being provided with one double vernier reading to single minutes of arc. The verniers of the latitude and declination arcs reading to 0' 30" of arc.

Examine the adjustments of the transit and find them perfect, 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 east boundary of Twp 31 N., R 18 E., in Exterior Book "AW".

Begin at the cor. of Secs. 1, 2, 35 and 36, on S. 1/4 of Twp. <sup>estab. by Sidney E. Blout, March 11, 1909,</sup> which is an iron post 3 ins. in diam. 12 ins. above ground, firmly set, marked on brass cap. R 18 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. quadrants, with pits 18x18x12 ins. in each sec., 5 1/2 ft. dia. and a mound of earth 4 ft. base, 2 ft. high W. of cor., latitude 36° 01' 54" N. Longitude 110° 22' 37" W.

April 27<sup>th</sup> 1911, Ch. 7<sup>h</sup> 58<sup>m</sup> a.m. l.m. & D set off 36° 02' N. on the lat. arc. 14° 15 1/2' N. on the decl. arc. and determine a meridian with the solar ob. the above described cor., thence Drum, N. 0° 01' W., to cor. 35 and 36;

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

5.40 Old road to E. and W.

15.00 Dry ravine 10 lbs. wide 2 ft. deep course S 30° W.

40.00 Set a cedar post 3 ft. long, 3 ins. sq. with marked stone 24 ins. in the ground for 1/4 sec. cor. marked 1/4 S 35 on W. face and S 36 on E. face.

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

Subdivision of T<sub>1</sub>/31 N, R. 18 E.

2 Chain

BOOK 2624

71.00 Center scattering cedar timber bears N 40° E and S 40° W.

80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for cor. of sec. 25, 26, 35, and 36. marked on brass cap. T 31 N. S 26 in NW R 18 E S 25 in N.E. S 36 in S.E. and S 35 in S.W. quadrant from which.

    A cedar 10 ins. in diam. bears N 29 1/2° E 160 lks. dish marked T 31 N. R 18 E S 25 B.T.

    A cedar 10 ins. in diam. bears S 68 3/4° E 258 lks. dish marked T 31 N. R 18 E S 36 B.T.

    A juniper pine 8 ins. in diam. bears S 23 1/4° W 333 lks. dish. marked T 31 N. R 18 E S 35 B.T. and

    A cedar 12 ins. in diam. bears N 72 1/2° W 101 lks. dish. marked T 31 N. R 18 E S 26 B.T.

Land rolling.

Soil sandy 3<sup>rd</sup> rate

Timber juniper pine and cedar

40.00 Set temp. 1/4 sec. cor

79.98 Intersect E. liny. of T<sub>1</sub>/5 lks. S. of the cor. of sec. 25, 30, 31, and 36, <sup>recently estab. by me, as described in Exterior Book "AW"</sup> thence run West, on true line, bet. secs. 25 and 36. Descend S.W. slope, over hilly, sandy and stony land through scattering sage and greasewood brush undergrowth and bunch grass.

4.80 Dry canal 15 lks. wide 2 ft. deep across S.W. cor.

20.00 Center scattering cedar and juniper pine timber bears N. and S.

31.00 Top of rocky ridge bears N 25° E and S 25° W. desc

39.99 Set a cedar post 3 ft. long 3 ins. sq. 24 ins. in the ground for 1/4 sec. cor. marked 1/4 S 25 on N. face and S 36 on S. face. from which.

    A cedar 18 ins. in diam. bears N 21° E 83 lks. dish. marked 1/4 S 25 B.T. and

    A juniper pine 12 ins. in diam. bears S 17 3/4° E 152 lks. dish. marked 1/4 S 36 B.T.

41.00 Lean timber bears N. and S.

55.00 Foot of descent in depression bears N 20° E and S 20° W. drains to the S.W. lean hilly land bears N 70° E and S 20° W. Enter rolling land. asc

Chains

3

- 66.70 Road bears  $N60^{\circ}W$ . and  $S60^{\circ}E$ .
- 69.50 Enter scattering juniper fine and cedar timber bears  $N30^{\circ}E$  and  $S36^{\circ}W$ .
- 79.98 The Cor of secs. 25, 26, 35, and 36, hereinbefore described. Land rolling and hilly. Soil sandy and stony  $3^{rd}$  and  $4^{th}$  rate. Timber juniper fine and cedar.

- $N.0^{\circ}01'W$ , bet. secs. 25 and 26,  
Ascend S.E. slope over rolling sandy land, through scattering cedar timber and sage brush undergrowth and brush grass
- 5.00 Top of divide bears  $N60^{\circ}E$  and  $S60^{\circ}W$  desc. Land rolling land, Enter hilly land.
  - 20.40 Road bears  $N60^{\circ}W$  and  $S60^{\circ}E$ .
  - 31.80 Dry ravine 10 lbs. wide course  $S70^{\circ}W$  asc.
  - 36.00 Top of sand ridge bears E and W. desc.
  - 46.00 Set a cedar post 3 ft. long, 3 ins. sq. 24 ins. in the ground for  $1/4$  sec. cor. marked  $1/4$  S260W W. face, and S250W E. face from which a juniper fine 8 ins. in diam. bears  $N72\frac{1}{2}^{\circ}E$  169 lbs. dish. marked  $1/4$  S25 B.T. and a juniper fine 7 ins. in diam. bears  $N53\frac{1}{2}^{\circ}W$  63 lbs. dish. marked  $1/4$  S26 B.T.

NOTE: - At this Cor I set off  $14^{\circ}18'$  N. on the decl. arc and at noon observed the sun on the meridian and obtain a reading of  $-36^{\circ}03'$  N. on the lat. circ.

- 40.20 Dry ravine 5 lbs. wide course west. asc.
- 49.00 Top of rocky spur, 20 ft. high. bears E and W. desc.
- 59.80 Dry rocky ravine, 60 ft. below top of ridge course west. asc.
- 68.00 Top of rocky spur, 30 ft. high. bears E and W. extends W. of line 5.00 elev. desc.
- 76.00 Dry rocky ravine 25 ft. below top of ridge course  $S65^{\circ}W$  base. steeply.
- 79.60 Top of rocky 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. 23, 24, 25 and 26. Marked on bears esp. T31 N. S23 in N.W. R18E S24 in N.E. S25 in S.E. and S26

BOOK 2624

in S.W. quadrant. from which.

A Cedar 12 ins. in diam bears N. 31° E 95 lks.

dish, marked T<sub>31</sub>N, R<sub>18</sub>E S 24 B.T. and

A Cedar 10 ins. in diam. bears N 71° W. 117 lks. dish.

marked T<sub>31</sub>N, R<sub>18</sub>E S 23 B.T.

No other trees available.

Raised mound of stone 2 ft. base, 1 1/2 ft. high. W.

of cor. *P. impracticable*

Land rolling and hilly.

Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.

Timber prairie pine and cedar.

East, on a random line, T<sub>31</sub> sec. 24 and 25,

40.00 Set temp 1/4 sec. cor.

80.16 Intersect E. l<sub>1</sub>y. of P<sub>1</sub>, 8 lks. S. of the cor. of  
sec. 19, 24, 25, and 30, <sup>recently estab. by me as described in</sup> Exterior Book "AW," thence I run,S 89° 57' W, on a true line, T<sub>31</sub> sec. 24 and 25-Arc and S.E. slope over broken stony hilly land  
through scattering prairie pine and cedar timber  
and greasewood brush undergrowth32.00 Top of rocky ridge or divide bears N 35° E and  
S 35° W. desc. N.W. slope40.08 Set a cedar post 3 ft. long 3 ins. in diam. 24  
ins. in the ground for 1/4 sec. cor. marked 1/4 S.  
24 on N. face and S 25 on S. face. from which.A prairie pine 8 ins. in diam. bears N 27 1/2° E 67  
lks dish, marked 1/4 S 24 B.T. andA prairie pine 7 ins. in diam. bears S 7° W 82 lks  
dish, marked 1/4 S 25 B.T.41.65 Sand stone ledge 20 ft. high. bears N 50° E and  
S 50° W. desc. abruptly.49.05 Dry rocky ravine 30 ft. below top of ledge curved  
S 60° W. desc. steeply.

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

51.00 Dry ravine 25 lks. wide, 15 ft. below top of ridge  
curved S.W. asc

69.00 Top of rocky ridge bears N 35° E and S 35° W desc.

80.16 The cor. of sec. 23, 24, 25, and 26, hereinbefore described.

Land hilly.

Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.

Timber prairie pine and cedar.



Subdivision of T<sup>31</sup>N, R18E.

Chains

- N. 0° 01' W, 1/4 sec. 23 and 24,  
 Descend NW slope over stony hilly land, through  
 scattering pinion pine and cedar timber and  
 scattering sage and greasewood brush undergrowth  
 and bunch grass.
- 5.25 Dry rocky ravine 35 ft. below sec. Cor. Course West  
 are. steeply
- 8.00 Top of rocky spur; bears E. and W. desc.
- 9.55 Dry rocky ravine 20 lbs. wide Course west. are
- 11.00 Top of rocky spur; bears E. and W. desc.
- 26.65 Dry rocky ravine 50 lbs. wide 20 ft. below top of  
 ridge Course West. are.
- 37.00 Top of spur; bears E. and W. desc.
- 40.00 Set a cedar post 3 ft. long, 3 in. dia. 24 in. in the  
 ground for 1/4 sec. cor. marked 1/4 S 23 on W. face  
 and S 24 on E. face. from which.  
 A pinion pine 9 in. in diam. bears N 52 1/2° E 58  
 lbs. dist. marked 1/4 S 24 B.T. and  
 A pinion pine 7 in. in diam. bears N 32 1/4° W 56  
 lbs. dist. marked 1/4 S 23 B.T.
- 43.00 Sandstone ledge 12 ft. high bears E. and W. desc.
- 45.50 Dry rocky ravine 30 lbs. wide 40 ft. deep. Course N 65° W  
 are. steeply
- 57.00 Top of sand ridge bears N. W. and S. E. desc.
- 66.00 Dry rocky ravine 20 lbs. wide Course S 60° W, are.
- 71.85 Begin abrupt ascent over rocky. S. slope
- 79.50 Top of rocky spur; bears N 70° W. and S 70° E. desc.
- 80.00 Set an iron post 3 ft. long 2 in. in diam. 24 in. 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 18 E, S 13 in N.E. S 24 in S.E. and S 23  
 in S.W. quadrant from which.  
 A pinion pine 7 in. in diam. bears N 36 1/2° E 75 lbs.  
 dist. marked T 31 N, R 18 E, S 13 B.T.  
 A pinion pine 8 in. in diam. bears S 66 1/4° E 157 lbs.  
 dist. marked T 31 N, R 18 E, S 24 B.T.  
 A pinion pine 6 in. in diam. bears S 6° W 70 lbs. dist.  
 marked T 31 N, R 18 E, S 23, B.T. and  
 A cedar 10 in. in diam bears N 10 1/2° W, 169 lbs.  
 dist. marked T 31 N, R 18 E, S 14 B.T.  
 Land hilly.  
 Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rates.

Chain

BOOK 2624

Timber pinion pine and cedar.

- 40.00 N. 89° 57' E., on a random line, brh. sec. 13 and 24, Sec. temp. 1/4 sec. cor
- 80.08 Intersect. E. bdy. of Twp., 10 lks. N. of the cor. of sec. 13, 18 and 19 and 24., recently estab. by me as described in Exterior Book "AW,"  
Thence <sup>run,</sup> N. 89° 57' W., on a true line, brh. sec. 13 and 24.
- Ascend steep N.E. slope over stony hilly land, through scattering pinion pine and cedar timber and sage and greasewood brush under growth
- 2.10 Top of rocky spur, 25 ft. above cor. bears N. and S. extends 5 lks. N. of line desc.
- 4.36 Dry rocky ravine 10 lks. wide course north and
- 10.00 Top of rocky spur, bears N. and S. desc.
- 32.40 Dry ravine 50 lks. wide course south and
- 40.04 Set a cedar post 3 ft. long 3 ins. sq. 24 ins. in the ground for 1/4 sec. cor. marked 1/4 S 13 on N. face and S 24 on S. face, from which  
A cedar 7 ins. in diam. bears N 39 3/4° E 55 lks. dist. marked 1/4 S 13 B.T. and  
A cedar 10 ins. in diam. bears S 48 1/4° W 126 lks. dist. marked 1/4 S 24 B.T.
- 60.00 Top of rocky ridge bears N. and S. desc.
- 74.40 Dry rocky ravine 18 lks. wide course N 10° W and
- 80.08 The cor. of sec. 13, 14, 23. and 24 hereinbefore described.  
Land hilly.  
Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.  
Timber pinion pine and cedar

April 29<sup>th</sup> 1911

May 5<sup>th</sup> 1911, Ab. 6<sup>h</sup> 57<sup>m</sup> a.m. Lm. I. & set off. 36° 04 1/2' N. on the lat. arc. 16° 03 1/2' N. on the decl. arc. and determine a meridian with the solar. at the cor. of sec. 13, 14, 23. and 24, <sup>hereinbefore described</sup> thence <sup>run,</sup> N. 8° 01' W., brh. sec. 13 and 14,

Descend N.E. slope over stony hilly land through scattering pinion pine and cedar timber and scattering sage and greasewood brush under growth, and bunch grass.

12.20 Descend abruptly over sandstone ledge 15 ft. high bears E. and W.

Chains

7

- 19.40 Dry ravine 20 lks. wide course N45°W, asc.
- 33.00 Top of rocky ridge bears E. and W. desc. steeply
- 40.00 Set a cedar post 3 ft. long. 3 in. sq. 24 in. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  S14 on W. face and S13 on E. face. from which.
- A cedar 20 in. in diam. bears N58 $\frac{3}{4}$ °E 129 lks. dist. marked  $\frac{1}{4}$  S13 B.T. and
- A juniper pine 4 in. in diam. bears N78°W 76 lks. dist. marked  $\frac{1}{4}$  S14 B.T.
- 54.50 Foot of steep descent, desc. gradually.
- 80.00 Set an iron post 3 ft. long 2 in. in diam. 24 in. in the ground for cor. of secs. 11, 12, 13. and 14, marked on brass cap. T31N.311 in NW., R18E. S12 in N.E., S13 in S.E. and S14 in S.W. quadrants from which.
- A cedar 20 in. in diam. bears S4°E. 216 lks. dist. marked T31N. R18E. S13 B.T. and.
- A cedar 18 in. in diam. bears S36 $\frac{1}{2}$ °W 310 lks. dist. marked T31N. R18E. S14 B.T.
- No other trees available.
- Dig pits 18x18x12 in. in each sec. 5 $\frac{1}{2}$  ft. dist. and raise a mound of earth 4 ft. base. 2 ft. high. W. of cor.
- Land hilly.
- Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.
- Number juniper pine and cedar

- S89°57'E, on a random line, bet. secs. 12 and 13
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 80.18 Intersect. E. ltry. of T<sub>31</sub>N., 2 lks. S. of the cor. of secs. 7, 12, 13. and 18, recently estab. by me as described in Exterior Book "AW".
- <sup>the</sup> fence run. West, on a true line, bet. secs. 12 and 13.
- Ascend steep East slope over stony hilly land, through scattering juniper pine and cedar timber and scattering sage brush undergrowth 2 ft. high.
- 15.00 Top of rocky ridge 40 ft. high. bears N30°W. and S30°E. desc. gradually
- 19.75- Begin abrupt descent over sandstone ledges bears N and S.
- 24.55- Foot of abrupt descent in rocky ravine 25 ft. below top of ledge course S60°W. asc. steeply.

Subdivision of T<sub>1</sub> 31 N. R 18 E.

BOOK 2624

- 31.00 Top of sand ridge bears N.E. and S.W. desc.
- 40.09 Set a cedar post 3 ft. long, 3 ins. sq. 24 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  S12. on N. face and S13 on S. face. From which  
 A pinon pine 6 ins. in diam. bears N18°W. 100 lks. dist. marked  $\frac{1}{4}$  S12 B.T. and  
 A pinon pine 5 ins. in diam. bears S24  $\frac{3}{4}$ ° E 41 lks. dist. marked  $\frac{1}{4}$  S13 B.T.
- 44.00 Top of sandstone ledge 30 ft. high. bears N65°E and S65°W. desc abruptly.
- 46.00 Foot of abrupt descent in dry ravine 25 lks. wide course S60°W. asc. S.E. slope.
- 48.00 Top of rocky ridge bears N and S. Extends 1.00 Ch. S. of line desc
- 52.00 The sand dry ravine 25 lks. wide 30 ft. below top of ridge. course N70°W. asc.
- 63.00 Top of rocky ridge 30 ft. high bears N and S. desc.
- 67.60 Dry rocky ravine 20 lks. wide 30 ft. deep course N30°W. asc.
- 80.18 The cor. of sec. 11, 12, 13. and 14, hereinbefore described.  
 Land hilly and broken  
 Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.  
 Timber pinon pine and cedar

N. 0° 01' W., bet. sec. 11 and 12,  
 descend N.E. slope over hilly sandy and stony land through scattering pinon pine and cedar timber and scattering sage brush undergrowth.

- 5.00 Dry ravine 12 lks. wide 4 ft. deep. course W. desc. steep.
- 9.30 Top of steep ascent 25 ft. above ravine. asc. gradually.
- 20.50 Top of sand ridge bears E and W. desc.
- 33.02 Old road bears E and W.
- 37.00 Dry ravine 25 lks. wide course S60°W. asc.
- 40.00 Set a cedar post 3 ft. long 3 ins. sq. with marked stone 24 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  S11 on W. face and S12 on E. face  
 No trees within limits  
 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.

Subdivision of T<sub>31</sub> N, R18E.

chains

9

- 44.00 Begin abrupt ascent over S. slope of mead.
- 50.00 Top of abrupt ascent on South edge of mead, land broken hilly land bears E. and W. Enter rolling sandy mead land.
- 80.00 Set an iron post 3 ft. long 2 ins. in diam. 24 ins. in the ground for cor. of secs. 1, 2, 11, and 12. marked on base cap T<sub>31</sub> N. S<sub>2</sub> in N.W., R18E. S<sub>1</sub> in N.E. S<sub>12</sub> in S.E. and S<sub>11</sub> in S.W. quadrant from which.
- A pinion pine 8 ins. in diam. bears N<sub>22</sub>° E 47 lks. dist. marked T<sub>31</sub> N. R18E. S<sub>1</sub> B.T.
- A cedar 10 ins. in diam. bears S<sub>22</sub>½° E 12 lks. dist. marked T<sub>31</sub> N. R18E. S<sub>12</sub> B.T.
- A cedar 16 ins. in diam. bears S<sub>35</sub>° W 37 lks. dist. marked T<sub>31</sub> N. R18E. S<sub>11</sub> B.T. and
- A cedar 14 ins. in diam. bears N<sub>32</sub>½° W 137 lks. dist. marked T<sub>31</sub> N. R18E. S<sub>2</sub> B.T.
- Land rolling hilly and broken.
- Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate
- Timber Pinion pine and cedar

NOTE: At this cor. Set off. 16° 06' N. on the decl. arc and at noon observe the sun on the meridian and obtain a reading of 36° 06' N. on the lab. arc.

- 40.00 Set temp. 1/4 sec. cor.
- 80.10 Intersect E. line of T<sub>31</sub>, 8 lks. N. of the cor. of secs. 1, 6, 7, and 12, recently estab. by me as described in Exterior Book "AW,"  
Thence, I run, N. 89° 57' W, on a true line, bet. secs. 1 and 12, descend N.W. slope over hilly sandy and stony land through scattering Pinion pine and Cedar timber and sage brush undergrowth and bunch grass.
- 5.42 Wood road bears N<sub>60</sub>° E and S<sub>60</sub>° W.
- 8.50 Dry ravine 40 lks. wide, 6 ft. deep course S<sub>60</sub>° W. ab.
- 26.00 Top of rocky ridge bears N and S. desc.
- 30.55 Dry ravine 10 lks. wide course South. asc.
- 40.05 Set a cedar post 3 ft. long 3 ins. sq. 24 ins. in the ground for 1/4 sec. cor. marked 1/4 S<sub>1</sub> on N. face and S<sub>12</sub> on S. face. From which.
- A cedar 14 ins. in diam. bears N<sub>6</sub>° W 102 lks. dist.

BOOK 2624

- marked  $\frac{1}{4}$  S1 B.T. and  
 A cedar 8 ins. in diam. bears S  $19^{\circ}$  W 120 lks. dist  
 marked  $\frac{1}{4}$  S12 B.T.
- 42.60 Top of sand ridge bears N. and S. desc  
 50.50 Dry ravine 5 lks. wide course South asc.  
 51.60 Top of sand ridge bears N. and S. desc.  
 58.25 Dry ravine 10 lks. wide course S  $30^{\circ}$  E. asc.  
 71.00 Top of sand ridge bears N  $40^{\circ}$  E. and S  $40^{\circ}$  W.  
 descend NW slope over rolling sandy land.  
 80.10 The cor. of sec. 1, 2, 11, and 12, hereinbefore described.  
 Land rolling, and hilly.  
 Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.  
 Timber pinon pine and cedars.
- 
- N  $0^{\circ}$  01' W, on a random line, bet. sec. 1 and 2,  
 40.00 Set temp  $\frac{1}{4}$  sec. cor.  
 80.06 Intersect N. ldy. of Twp, 18 lks. N  $89^{\circ}$  58' W of the cor. of sec.  
 1, 2, 35 and 36, recently estab. by me as described in Exterior Book "AM"  
 Hence 1 run,  
 S  $0^{\circ}$  07' W, on a true line, bet. sec. 1 and 2,  
 Descend SE slope over hilly sandy and stony land  
 through scattering pinon pine and cedar timber  
 and scattering sage brush undergrowth
- 1.65 A point from which an Indian Hogan bears  
 W. 20 lks. dist.
- 5.00 Dry ravine 8 lks. wide course W. asc.  
 16.00 Top of rocky ridge bears E and W. desc.  
 22.45 Dry rocky ravine 12 lks. wide course N  $60^{\circ}$  W. asc.  
 28.70 Top of rocky ridge bears E and W. desc.  
 31.40 Dry rocky ravine 15 lks. wide course N  $40^{\circ}$  E. asc.  
 32.65 Top of sand stone ledge 12 ft. high. bears N  $60^{\circ}$  E and  
 S  $60^{\circ}$  W.
- 40.06 Set a cedar post 3 ft. long 3 ins. sq. 24 ins. in the  
 ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  S2 on W. face  
 and S1 on E. face from which.  
 A cedar 6 ins. in diam. bears N  $74\frac{1}{2}^{\circ}$  E 86 lks. dist  
 marked  $\frac{1}{4}$  S1 B.T. and  
 A cedar 8 ins. in diam. bears N  $20\frac{1}{4}^{\circ}$  W 28 lks. dist.  
 marked  $\frac{1}{4}$  S2 B.T.
- 43.00 Top of rocky divide bears E and W. desc  
 66.00 Dry rocky ravine 10 lks. wide course S  $30^{\circ}$  W asc.  
 68.00 Top of ridge bears NE. and SW. desc.

Chain

Subdivision of T<sub>31</sub>N, R<sub>18</sub>E.

- 77.05 - Top of sand stone ledge 15 ft. high. bears E and W. descend abruptly.
- 78.20 Foot of abrupt descent in rocky ravine 10 lbs. wide course S 30° W. ascend N.W. slope over rolling sandy land.
- 80.06 The cor of sec 1, 2, 11 and 12, hereinbefore described. Land rolling and hilly. Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate. Timber Cedars and Fir or pine.

May 5<sup>th</sup>, 1911.

This 1<sup>st</sup> day of May 1911, I employ Harry D Cates to perform the duties of Axman. No officer authorized to administer oaths other than myself being available, without great inconvenience, delay, and expense. I administer the required preliminary oath

Van L. White  
U.S. Draughtsman

May 1<sup>st</sup> 1911, Ah. 6<sup>h</sup> 57<sup>m</sup> a.m. l.m.l. I set off. 36° 02' N. on the lab. arc., 14° 52½' N. on the decl. arc and determine a meridian with the solar ah. the cor. of sec. 2, 3, 34, and 35 on S. <sup>estab. by Sidney E. Boyd, March 11, 1909</sup> ~~dry~~ of T<sub>31</sub>N which is an iron post 3 ins. in diam 12 ins. above ground, marked on brass cap R<sub>18</sub>E. in E. half. T<sub>31</sub>N S<sub>35</sub> in N.E., T<sub>30</sub>N S<sub>2</sub> in S.E., S<sub>3</sub> in S.W. and S<sub>34</sub> in N.W. quadrant. from which.

A cedar 12 ins. bears N 42½° E 61 lbs. dist. marked T<sub>31</sub>N. R<sub>18</sub>E. S<sub>35</sub> B.T.

A cedar 8 ins. in diam bears S 34½° E 120 lbs. dist. marked T<sub>30</sub>N. R<sub>18</sub>E. S<sub>2</sub> B.T.

A cedar 12 ins. in diam. bears S 29° W 97 lbs. dist. marked T<sub>30</sub>N. R<sub>18</sub>E. S<sub>3</sub> B.T. and

A fir or pine 8 ins. in diam bears N 69° W 143 lbs. dist. marked T<sub>31</sub>N. R<sub>18</sub>E. S<sub>34</sub> B.T., there I run,

N. 0° 01' W., bet. sec 34 and 35.

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

5.15 - Dry rocky ravine 14 lbs. wide course west. asc.

Subdivision of Tp 31 N. R 18 E.

12

Chain

BOOK 2624

- 8.25 Wood road on top of ridge bears E and W. desc.
- 10.95 Dry rocky ravine 15 lks. wide course S.W. asc.
- 31.75 Top of divide bears E and W. desc. steeply.
- 40.00 Set a cedar post 3 ft. long, 3 ins. dia. 24 ins. in the ground for 1/4 sec. cor. marked 1/4 S 34 on W face and S 35 on E. face. from which.  
 A cedar 12 ins. in diam. bears N 72 1/2° E 76 lks. dist. marked 1/4 S 35 B.T. and  
 A cedar 18 ins. in diam. bears N 27° W 152 lks. dist. marked 1/4 S 34 B.T.
- 44.90 Dry ravine 10 lks. wide 20 ft. below 1/4 sec. cor. course West. asc.
- 50.00 Top of rocky ridge bears N 75° W. and S 75° E. desc.
- 57.20 Dry ravine 25 ft. below top of ridge course S 65° W. desc.
- 68.00 Top of rocky spur, bears N 65° E. and S 65° W. desc.
- 76.85 Dry ravine 10 lks. wide course N 30° W. asc.
- 80.00 Set an iron post. 3 ft. long 2 ins. in diam. 24 ins. in the ground for cor. of secs. 26, 27, 34 and 35; marked on brass cap. T 31 N. S 27 in N.W. R 18 E. S 26 in N.E. S 35 in S.E. and S 34 in S.W. quadrants. from which.  
 A cedar 10 ins. in diam. bears N 35 1/2° E 191 lks. dist. marked T 31 N. R 18 E. S 26 B.T.  
 A cedar 10 ins. in diam. bears S 27 1/4° E 199 lks. dist. marked T 31 N. R 18 E S 35 B.T.  
 A cedar 20 ins. in diam. bears S 39 1/2° W 118 lks. dist. marked T 31 N. R 18 E. S 34 B.T. and  
 A fir or pine 12 ins. in diam. bears N 71 3/4° W 204 lks. dist. marked T 31 N. R 18 E. S 27 B.T.

Land hilly.  
 Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.  
 Timber fir or pine and cedar

- 40.00 Set temp. 1/4 sec. cor.
- 79.90 Intersect N. and S. line, 16 lks. S. of the cor. of secs. 25-26, 35 and 36, <sup>hereinbefore described</sup> thence S run, S 89° 55' W. at true line, top secs 26 and 35  
 ascend S.E. slope over hilly sandy land, through scattering fir or pine and cedar timber and scattering sage and greasewood brush undergrowth



Chain

- and bunch grass
- 12.00 Top of rocky ridge on divide bears  $N65^{\circ}E$ . and  $S65^{\circ}W$  descend steeply over N.W. slope.
- 39.80 Dry ravine 5 lks. wide course  $N.W.$  acc.
- 39.95 Set a cedar post 3 ft. long, 3 ins. sq. 24 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4} S 26$  on N. face and  $S 35$  on S. face. from which.  
A cedar 7 ins. in diam. bears  $N1\frac{1}{2}^{\circ}W$  52 lks. dist. marked  $\frac{1}{4} S 26$  B.T. and  
A pinion pine 7 ins. in diam. bears  $S21\frac{1}{2}^{\circ}E$  76 lks. dist. marked  $\frac{1}{4} S 35$  B.T.
- 49.60 Top of sand ridge bears N. and S. desc.
- 79.90 The cor. of sec. 26, 27, 34, and 35, hereinbefore described.  
Land hilly.  
Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.  
Timber pinion pine and cedar

$N.0^{\circ}01'W$ , bet. sec. 26 and 27,  
Ascend S. slope over hilly sandy and stony land through scattering pinion pine and cedar timber and sage brush undergrowth and bunch grass

- 6.50 Top of sand ridge bears E and W. desc.
- 10.75 An Indian Hogan on line.
- 11.70 Dry ravine 15 lks. wide course  $N60^{\circ}W$ . acc.
- 13.00 Top of rocky ridge bears  $N.W.$  and  $S.E.$  desc.
- 16.70 Dry ravine 10 lks. wide course  $N.W.$  acc.
- 27.50 Top of spur, 30 ft. above ravine bears E and W. desc.
- 40.00 Set a cedar post 3 ft. long 3 ins. sq. 24 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4} S 27$  on W. face and  $S 26$  on E. face. from which.  
A cedar 14 ins. in diam. bears  $N36\frac{1}{4}^{\circ}W$  56 lks. dist. marked  $\frac{1}{4} S 27$  B.T. and  
A cedar 12 ins. in diam. bears  $S79\frac{1}{4}^{\circ}E$  24 lks. dist. marked  $\frac{1}{4} S 26$  B.T.
- 45.70 Dry rocky ravine 8 lks. wide course  $N60^{\circ}W$ . acc.
- 55.20 Top of rocky ridge 20 ft. above ravine bears E and W. desc.
- 73.65 Dry rocky ravine 10 lks. wide course  $N45^{\circ}W$ . acc.
- 75.00 Top of rocky spur, bears E and W. desc.
- 76.75 Road bears  $N60^{\circ}W$ . and  $S60^{\circ}E$ . Land timber

BOOK 2624

Leaves N.E. and S.W.

79.65 Dry ravine 20 lks. wide Course west. arc.  
 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 18 E S 23 in N.E., S 26 in S.E. and S 27 in S.W. quadrants. Dig pits 18 x 18 x 12 ins. in each sec. 5 1/2 ft. dia. and raise a mound of earth 4 ft. base, 2 ft. high. W of cor

Land hilly.

Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.

Timber fir, pine and cedar

NOTE: At this cor. I set off 14° 55' 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

N. 89° 55' E., on a random line, bet. sec. 23 and 26

40.00 Set temp. 1/4 sec. cor.

79.88 Intersect N. and S. line, 8 lks. N. of the cor. of sec. 23, 24, 25 and 26, hereinbefore described, thence I run,

S 89° 58' W., on a true line, bet. sec. 23 and 26,

Descend W. slope over hilly sandy and stony land covered with scattering fir, pine and cedar timber and sage brush undergrowth

80 Foot of descent in depression bet. N. and S. drains to the north arc.

2.25 Top of rocky ridge bet. N.E. and S.W. desc.

11.30 Dry rocky ravine 10 lks. wide Course N 50° W. arc.

20.00 Top of sand ridge bet. N. and S. desc.

25.55 Dry rocky ravine 10 lks. wide Course north arc.

28.00 Top of rocky spur, bet. N. and S. desc.

39.94 Set a cedar post 3 ft. long 3 ins. sq. 24 ins. in the ground for 1/4 sec. cor. marked 1/4 S 23 on N. face and S 26 on S. face. from which.

A fir, pine 7 ins. in diam. bet. arc N 45 1/4° E 36 lks. dist. marked 1/4 S 23 B.T. and

A fir, pine 8 ins. in diam. bet. arc S 6 3/4° E 72 lks. dist. marked 1/4 S 26 B.T.

63.20 Dry rocky ravine 15 lks. wide Course N. 70° W. arc.

65.00 Top of rocky spur, bet. N. and S. desc.

Chain

- 67.80 The same dry ravine 15 lks. wide course S70°W are.
- 79.88 The cor. of sec. 22, 23, 26 and 27, hereinbefore described. Land hilly. Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate. Timber firs, pine and cedars.

- N. 80° 1' W., 1/4 sec. 22 and 23, Ascend S.E. slope over hilly sandy and stony land through scattering sage and greasewood brush. undergrowth and bunch grass.
- 4.40 Top of sand ridge bears N75°E and S75°W. desc.
- 10.00 Enter scattering fir, pine and cedar timber from E and W.
- 21.65 Dry ravine 30 lks. wide course W. are.
- 28.00 Top of sand ridge bears N.E. and S.W. desc.
- 30.60 Dry ravine 15 lks. wide course S.W. are.
- 40.00 Set an cedar post 3 ft. long, 3 ins. dia. 24 ins. in the ground for 1/4 sec. cor. marked 1/4 S22 on W. face and S23 on E. face. From which  
A cedar 18 ins. in diam. bears S60 1/2° E 58 lks. dist. marked 1/4 S23 B.T. and  
A cedar 12 ins. in diam. bears S38 3/4° W 28 lks. dist. marked 1/4 S.22 B.T.
- 41.00 Top of sand ridge bears N35°E and S35°W. desc.
- 53.50 Dry rocky ravine 20 lks. wide course S40°W. are.
- 80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for cor. of sec. 14, 15, 22, and 23 marked at base cap T31 N S15 in N.W., R18 E S14 in N.E. S23 in S.E. and S22 in S.W. quadrants. from which  
A fir, pine 6 ins. in diam. bears N66°E 74 lks. dist. marked T31 N, R18 E, S14 B.T.  
A fir, pine 7 ins. in diam. bears S24 3/4° E 69 lks. dist. marked T31 N, R18 E, S23 B.T.  
A cedar 14 ins. in diam. bears S41 1/2° W 28 lks. dist. marked T31 N, R18 E, S22 B.T. and  
A fir, pine 8 ins. in diam bears N38°W 226 lks. dist. marked T31 N, R18 E S15 B.T.

BOOK 2624

From this cor. @ Spring bears  $N50^{\circ}35'E$  17.55 Chs dist  
 NOTE: This cor. is situated at top of ascent on S.W. slope.  
 Land hilly.  
 Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.  
 Timber pinon pine and cedar.

- 40.00  $N89^{\circ}58'E$ , on a random line, Feb. sec. 14 and 23  
 79.82 Sub temp. 1/4 sec. cor.  
 79.82 Intersect N and S. line, 14 lbs. N. of the cor. of  
 sec. 13, 14, 23, and 24, hereinbefore described, thence run,  
 $N89^{\circ}56'W$ , on a true line, Feb. sec. 14 and 23.  
 Descend stony West slope over hilly land through  
 scattering pinon pine and cedar timber and  
 scattering sage brush, undergrowth and bunch  
 grass  
 39.91 Set a cedar post 3/4 ft. long 3 ins. sq. 24 ins.  
 in the ground for 1/4 sec. cor. marked 1/4 S  
 14 on N. face and S 23, on S. face, from which  
 A pinon pine 14 ins. in diam. bears  $N29^{\circ}1/2'W$ .  
 106 lbs. dist. marked 1/4 S 14, B.T. and  
 A pinon pine 7 ins. in diam. bears  $S41^{\circ}E$  92  
 lbs. dist. marked 1/4 S 23, B.T.  
 42.15 Dry ravine 20 lbs. wide course North, arc.  
 56.25 Top of rocky ridge bears  $N30^{\circ}E$  and  $S30^{\circ}W$   
 decl.  
 79.82 The cor. of sec. 14, 15, 22, and 23, hereinbefore described.  
 Land hilly.  
 Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.  
 Timber pinon pine and Cedar.

May 1<sup>st</sup> 1911

- May 6<sup>th</sup> 1911  
 Ch. 7<sup>th</sup> 27<sup>th</sup> a.m. l.m.t. set off.  $36^{\circ}04'1/2''N$ .  
 on the lat. arc  $16^{\circ}21'76''$  on the decl. arc and  
 determine a meridian with the solar at the  
 cor. of sec. 14, 15, 22, and 23, <sup>hereinbefore described</sup> thence run,  
 $N0^{\circ}01'W$ , Feb. sec. 14 and 15,  
 Descend N.W. slope over hilly sandy and stony land  
 through scattering pinon pine and cedar timber  
 and scattering sage and greasewood bush  
 undergrowth and bunch grass.  
 8.10 Dry ravine 10 lbs. wide course west, arc.

Chains

17

28.00 Top of sand ridge bears E and W. desc N. slope.  
 40.00 Set a cedar post 3 ft. long. 3 in. sq., 24 in. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  S 15 on W. face and S 14 on E. face from which.  
 A cedar 10 in. in diam. bears  $N 76^{\circ} E$  227 lks. dir. marked  $\frac{1}{4}$  S 14 B.T. and  
 A fir or pine piece 6 in. in diam. bears  $S 5\frac{1}{2}^{\circ} W$ . 231 lks. dir. marked  $\frac{1}{4}$  S 15 B.T.  
 57.00 Run timber bears  $N 70^{\circ} W$ . and  $S 70^{\circ} E$ .  
 80.00 Set an iron post 3 ft. long 2 in. in diam. 24 in. in the ground for cor. of sec. 10, 11, 14, and 16 marked on base cap T 31 N. S 10 in N.W. R 18 E. S 11 in N.E., S 14 in S.E. and S 15 in S.W. quadrants. Dig pits 18 x 18 x 12 in. in each sec.  $5\frac{1}{2}$  ft. diam. and raise a mound of earth 4 ft. base. 2 ft. high. W of cor.  
 Sand hills.  
 Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rates.  
 Timber Fir or pine and cedar.

40.00  $S 89^{\circ} 56' E$ , on a random line, bet. sec. 11 and 14, Set temp.  $\frac{1}{4}$  sec. cor.  
 79.80 Intersect N. and S. line, 12 lks. S. of the cor. of sec. 11, 12, 13, and 14, hereinbefore described, thence 1 run,  $S 89^{\circ} 59' W$ , on a true line, bet. sec. 11 and 14,  
<sup>Ascend</sup> Over hilly sandy and stony land covered with scattering sage and greasewood brush undergrowth and bunch grass  
 5.50 Enter scattering cedar and fir or pine timber bears N and S  
 14.00 Top of sand ridge bears N. and S. desc.  
 22.35 Sand stone ledge 15 ft. high bears N and S,  
 27.65 Dry rocky ravine 8 lks. wide course north also steeply.  
 31.35 Sand stone ledge 15 ft. high. bears N and S.  
 39.00 Top of ridge bears N and S. desc.  
 39.90 Set a cedar post 3 ft. long 3 in. sq., 24 in. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  S 11 on N. face and S 14 on S. face, from which.  
 A cedar 14 in. in diam. bears  $N 65\frac{1}{2}^{\circ} E$  15 lks. dir. marked  $\frac{1}{4}$  S 11 B.T. and

BOOK 2624

- A firsion pine 6 ins. in diam. bears S 35½° W 39  
 lbs. dist. marked ¼ S14 B.T.  
 72.00 Leave timber trail N 40° E and S 40° W.  
 79.80 The cor. of secs. 10, 11, 14 and 15, hereinbefore described.  
 Land hilly.  
 Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.  
 Timber firsion pine and cedar
- 
- N. 0° 01' W, Secs. 10 and 11,  
 descend NW. slope over rolling sandy land, through  
 scattering sage and greasewood brush undergrowth  
 and bunch grass  
 2.85 Road bears N 60° E and S 60° W.  
 3.30 Foot of descent in depression bears E and W, drains  
 to the west. are S. slope  
 34.40 Top of steep ascent. are gradually. Enter firsion  
 pine and cedar timber trail bears E and W.  
 40.00 Set a cedar post 3 ft. long, 3 ins. sq. 24 ins. in the  
 ground for ¼ sec. cor. marked ¼ S10 on W. face  
 and S11 on E. face from which.  
 A firsion pine 10 ins. in diam. bears N 80° E 237  
 lbs. dist. marked ¼ S11 B.T. and  
 A cedar 18 ins. in diam. bears S 49½° W 114 lbs.  
 dist. marked ¼ S10 B.T.  
 47.00 Top of sand ridge bears N.E. and S.W. desc.  
 69.55 Dry ravine 15 lbs. wide course S 55° W asc.  
 75.75 Top of ridge bears E and W. extends W. of line  
 200 lbs. dist. desc.  
 80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins.  
 in the ground for cor. of secs. 2, 3, 10, and 11  
 marked on brass cap T 31 N. 33 in N.W. R18E. S 2  
 in N.E. S11 in S.E. and S10 in S.W. quadrants.  
 from which  
 A cedar 12 ins. in diam. bears N 2½° E 75 lbs. dist.  
 marked T 31 N. R18E S 2 B.T.  
 A cedar 12 ins. in diam. bears S 33½° E 85 lbs.  
 dist. marked T 31 N. R18E S 11 B.T.  
 A cedar 10 ins. in diam. bears S 6½° W. 132 lbs. dist.  
 marked T 31 N. R18E. S 10 B.T. and  
 A cedar 12 ins. in diam. bears N 25° W 63 lbs. dist.  
 marked T 31 N. R18E. S 3 B.T.

Chains

Subdivision of 9 $\frac{1}{4}$  31 N. R. 18 E.

19

Land hilly.

Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.

Timber fir and cedar

NOTE: - At this cor. Set off  $16^{\circ} 23\frac{1}{2}'$  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 lat. arc.

N.  $89^{\circ} 59'$  E. on a random line, bet. sec. 2 and 11,

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

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

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

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

2.00 Dry ravine 20 lks. wide 10 ft. below cor. course S  $40^{\circ}$  W. asc. S.E. slope over stony hilly land.

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

6.15 Dry rocky ravine 15 lks. wide course South asc.

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

19.75 Dry rocky ravine 10 lks. wide course S  $20^{\circ}$  E. asc.

32.00 Top of rocky ridge bears N and S. desc

39.97 Set a cedar post 3 ft. long 3 ins. sq. 2 ft. ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  S 2 on N. face and S 11 on S. face from which.

A fir and pine 8 ins. in diam. bears N  $22\frac{1}{4}^{\circ}$  E 58 lks. dist. marked  $\frac{1}{4}$  S 2 B.T. and

A fir and pine 6 ins. in diam. bears S  $39\frac{1}{2}^{\circ}$  E 108 lks. dist. marked  $\frac{1}{4}$  S 11 B.T.

51.60 Dry ravine 25 lks. wide course S  $30^{\circ}$  W. asc.76.00 Top of rocky ridge 20 ft. high. bears N  $40^{\circ}$  E and S  $40^{\circ}$  W. desc.

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

Land rolling and hilly.

Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.

Timber fir and cedar

N.  $01^{\circ}$  W., on a random line, bet. sec. 2 and 3.

Subdivision of Twp 31 N, R 18 E.

20 Chain

BOOK 2624

- 40.00 Set temp. 1/4 sec. cor.
- 80.12 Intersect N. ldy. of Twp; 8 lks. N 89° 58' W of the cor. of secs. 2, 3, 34, and 35, recently estab. by me as described in Exterior Book "AN," <sup>Thence run</sup> S 0° 02' W, on a true line, bet. secs 2 and 3. Ascend N slope over hilly sandy and stony land through scattering pine, fir and cedar timber and scattering sage and greasewood brush undergrowth and bunch grass
- 17.00 Top of rocky ridge bears E and W. desc S. slope
- 32.15 Road bears N 25° E and S 25° W.
- 40.12 Set a cedar post 3 ft. long 3 in. sq. 24 in. in the ground for 1/4 sec. cor. marked 1/4 S 3 on W. face and S 2 on E. face, from which. A cedar 8 in. in diam. bears N 71 1/4° E 83 lks. dist marked 1/4 S 2 B.T. and A cedar 9 in. in diam. bears S 77 1/2° W 92 lks. dist marked 1/4 S 3 B.T.
- 41.60 Dry rocky ravine 12 lks. wide 8 ft. below 1/4 sec. cor. Course S 60° W. asc.
- 51.00 Top of rocky spur, bears E and W. desc.
- 54.20 Dry ravine 10 lks. wide course N W. asc.
- 67.10 Top of rocky spur, bears N 40° E and S 40° W. desc.
- 80.12 The cor. of secs. 2, 3, 10, and 11, hereinbefore described. Land hilly. Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate. Timber few in pine and cedars

May 6<sup>th</sup> 1911

May 2<sup>nd</sup> 1911 At 6<sup>h</sup> 57<sup>m</sup> a.m. l.m.l. & set off 36° 02' N on the lat. arc. 15° 10 1/2' N on the decl. arc. and determine a meridian with the solar on the cor. of secs. 3, 4, 33, and 34, <sup>estab. by Sidney E. Blyt, March 11, 1909</sup> on S. ldy. of Twp, which is an iron post 3 in. in diam. 12 in. above ground firmly set marked <sup>on brass cap</sup> R 18 E in E. half. T 31 N S 34 in N.E., T 30 N, S 3 in S.E., S 4 in S.W. and 333 in N.W. quadrants; with pins 18x18x12 in. in each sec. 5 1/2 ft. dist. and a mound of earth 4 ft. base 2 ft. high. W. of cor., thence run S 0° 02' W. bet. secs. 33 and 34. Descend N.W. slope over rolling sandy land, through scattering sage and greasewood brush undergrowth and bunch grass.



## Subdivision of Twp 31 N. R18 E.

Chain

21

- 11.00 Road bears E and W.
- 26.65 Dry ravine 25 lks. wide course west. asc
- 30.00 Ecter scattering cedar and pinion pine timber  
bears E and W.
- 35.70 Top of rocky ridge bears E and W. desc
- 40.00 Set a cedar post 3 ft. long 3 ins. sq. 24 ins. in  
the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  S 33<sup>00</sup> W.  
face and S 34<sup>00</sup> W. face from which.  
A cedar 12 ins. in diam. bears S 36 $\frac{1}{2}$ ° E 14 lks. dist.  
marked  $\frac{1}{4}$  S 34 B.T. and  
A cedar 10 ins. in diam. bears S 51 $\frac{1}{2}$ ° W 83 lks.  
dist. marked  $\frac{1}{4}$  S 33 B.T.
- 40.50 Rear timber bears E and W.
- 46.25 Foot of descent in depression bears E and W  
drains to the west. asc.
- 50.00 Top of ridge bears E and W. desc.
- 61.95 Foot of descent in depression bears N 40° E and  
S 40° W., drains to the S.W. asc.
- 80.00 Set an iron post 3 ft. long 2 ins. in diam 24  
ins. in the ground for cor. of sec. 27, 28, 33,  
and 34, marked out brass cap T 31 N. & 28 in  
N.W., R18 E S 27 in N.E. S 34 in S.E. and S 33. in S.W.  
quadrant.  
Raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$  ft. high.  
W. of cor. Pile impracticable  
Land hilly and rolling  
Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.  
Timber pinion pine and cedar.
- 
- S 89° 58' E., on a random line, bet. sec 27 and 34,  
40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 79.84 Intersect N. and S. line, 12 lks. N. of the cor. of  
sec. 26, 27, 34 and 35, hereinbefore described, thence I run  
N. 89° 53' W., on a true line, bet. sec. 27 and 34,  
Descend N.W. slope on hilly sandy and stony  
land through scattering pinion pine and cedar  
timber and sage and greasewood brush  
undergrowth and bunch grass.
- 2.20 Dry ravine 5 lks. wide course N 30° W asc.
- 15.00 Top of stony ridge bears N and S. desc.
- 39.92 Set a cedar post 3 ft. long 3 ins. sq. 24 ins. in

BOOK 2624

- the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  S 27 on N. face and S 34 on S. face from which.
- A cedar 10 ins. in diam. bears  $N 5^{\circ} W 73$  lks. dist. marked  $\frac{1}{4}$  S 27 B.T. and
- A cedar 8 ins. in diam. bears  $S 18^{\circ} W 56$  lks. dist. marked  $\frac{1}{4}$  S 34 B.T.
- 42.00 Dry ravine 10 lks. wide Course  $N 25^{\circ} W$ , asc.
- 50.00 A point from which an Indian Hogan bears North 2.20 Ch. dist.
- 50.50 Bear timber bears N. and S.
- 50.65 Top of ridge bears N. and S. desc.
- 65.80 Dry ravine 15 lks. wide Course  $N 40^{\circ} W$ , asc.
- 79.84 The cor. of secs. 27, 28, 33 and 34, hereinbefore described.
- Land hilly  
Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.  
Timber pinon pine and cedar.
- 
- $N 0^{\circ} 02' W$ , Ch. sec. 27, and 28,  
Ascend S.E. slope on stony hilly land. Covered with scattering sage and greasewood brush undergrowth and bunch grass
- 5.00 Enter scattering pinon pine and cedar timber bears N.E. and S.W.
- 18.50 Top of rocky ridge bears  $N 60^{\circ} E$  and  $S 60^{\circ} W$  desc.
- 31.45 Dry ravine 10 lks. wide 4 ft. below top of ridge Course  $N 35^{\circ} W$ , asc.
- 34.00 Top of rocky spur, bears E and W. extends 50 lks. W. of line. desc.
- 40.00 Set a cedar post 3 ft. long 3 ins. sq. 24 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  S 28 on W. face and S 27 on E. face. from which.
- A cedar 16 ins. in diam. bears  $N 87 \frac{3}{4}^{\circ} E 40$  lks. dist. marked  $\frac{1}{4}$  S 27 B.T. and
- A cedar 14 ins. in diam. bears  $S 27 \frac{3}{4}^{\circ} W 48$  lks. dist. marked  $\frac{1}{4}$  S 28 B.T.
- 40.32 Dry ravine 15 lks. wide 4 ft. deep. Course west. asc. steeply.
- 45.00 Top of rocky spur, bears E. and W. desc.
- 60.00 Bear timber bears  $N 30^{\circ} E$  and  $S 30^{\circ} W$ .
- 80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for cor. of sec. 21, 22, 27, and 28

marked on bear cap T<sub>31</sub>N, S<sub>21</sub> in N.W. T<sub>18</sub>E  
S<sub>22</sub> in N.E. S<sub>27</sub> in S.E. and S<sub>28</sub> in S.W. quadrants.  
Dig pits 18x18x12 ins. in each sec. 5½ ft. dist.  
and raise a mound of earth 4 ft. base, 2 ft. high.  
N. of cor.

Land lully.

Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.

Pine, fir, juniper and cedar

NOTE: At this cor. Set off 15°13' N. on the decl. arc. and  
at noon observe the sun on the meridian and  
obtain a reading of 36°03½' N. on the lat. arc.

- 40.00 S 89°53' E, on a random line, bet. sec. 22 and 27,  
Set temp. 14 sec. cor.
- 79.80 Intersect N. and S. line, 5 lbs. S. of the cor. of  
secs. 22, 23, 26 and 27, hereinbefore described, thence I run,  
N. 89°55' W, on a true line, bet. secs. 22 and 27,  
Ascend S.E. slope over rolling sandy land through  
scattering sage and greasewood brush undergrowth  
and bunch grass.
- 6.00 Top of sand ridge bears N 75° E and S 75° W decl.
- 11.40 Gradually over NW slope.  
Road bears N.W. and S.E.
- 39.90 Set a cedar post 3 ft. long 3 ins. sq., 24 ins. in the  
ground for 14 sec. cor. marked 14 S 22 on N. face  
and S 27 on S. face.  
Dig pits 18x18x12 ins. E and W. of post 3 ft. dist. and  
raise a mound of earth 3½ ft. base, 1½ ft. high.  
N. of cor.
- 41.00 Dry ravine 25 lbs. wide 3 ft. deep course N 50° W  
dec.
- 70.00 Top of sand ridge bears N 60° W. and S 60° E. decl  
gradually.
- 79.80 The cor. of secs 21, 22, 27. and 28, hereinbefore described.  
Land rolling  
Soil sandy 3<sup>rd</sup> rate.  
No timber

N. 0° 02' W, bet. secs. 21 and 22,  
Descend N.W. slope over rolling sandy land.

BOOK 2624

- Covered with sage and greasewood brush undergrowth and bunch grass.
- 2.00 Dry ravine 10 lks. wide 4 ft. deep. course N60°W  
abc. S.W. slope over hilly land.
- 8.00 Top of sand ridge bears N60°W. and S60°E. desc.
- 20.05 Road bears E and W.
- 22.15 Dry ravine 50 lks. wide 6 ft. deep. Course West.  
abc.
- 40.00 Set a cedar post 3 ft. long, 3 ins. sq. 24 ins. in  
the ground for 1/4 sec. cor. marked 1/4 S21 on  
W. face and S22 on E. face.  
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.
- 48.00 Enter scattering pinon pine and cedar timber  
bears E. and W.
- 48.10 Top of ridge bears E and W. desc.
- 55.00 Poth of ditch in depression bears N.E. and S.W.  
drains to the S.W. abc.
- 55.65 Road bears N25°E and S25°W.
- 80.00 Set an iron post 3 ft. long 2 ins. in diam. 24  
ins. in the ground for cor. of sec. 15, 16, 21, and  
22. marked on base top T<sub>31</sub>N. S16 in N.W. R  
18E. S15 in N.E. S22 in S.E. and S21 S.W. quadrants  
from which.  
A pinon pine 18 ins. in diam. bears N52 1/4° W 366  
lks. dist. marked T<sub>31</sub>N. R18E. S16 B.T. and  
A cedar 12 ins. in diam. bears S57 1/4° W 82 lks.  
dist. marked T<sub>31</sub>N. R18E S21 B.T.  
No other trees available  
Raise a mound of stone 2 ft. base, 1 1/2 ft. high. W.  
of cor. Pits impracticable.  
Land rolling and hilly.  
Soil sandy 3<sup>rd</sup> and 4<sup>th</sup> rate.  
Timber pinon pine and cedar.
- 
- 40.00 S89°55'E, on a random line, bet. sec. 15 and 22  
Set temp. 1/4 sec. cor.
- 79.82 Intersect N. and S. line, 10 lks. N. of the cor. of  
sec. 14, 15, 22, and 23, hereinbefore described, thence I run,  
N89°51'W, on a true line, bet. sec. 15 and 22.

Subdivision of Twp 31 N., R 18 E.

Chain

Descend N.W. slope over rolling sandy land, through scattering pinion pine and cedar timber and scattering sage brush undergrowth and bunch grass.

- 18.00 Leave timber bears N.E. and S.W.
- 20.95 Foot of descent in depression bears N 40° E and S 40° W. drains S.W. are. over hilly land.
- 25.00 Top of sand ridge bears N.E. and S.W. desc.
- 37.00 Road bears N.W. and S.E.
- 39.91 Set a cedar post 3 ft. long, 3 ins. sq. 24 ins. in the ground for 1/4 sec. cor. marked 1/4 S 15 on N. face and S 22 on S. face.  
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.
- 46.00 Enter timber bears N. and S.
- 51.50 Top of ridge bears N and S. desc.
- 61.60 Road bears N 30° E and S 30° W.
- 62.25 Foot of descent in depression bears N 30° E and S 30° W. drain S.W. are.
- 70.00 Top of rocky ridge bears N. and S. desc.
- 79.82 The cor. of secs. 15, 16, 21, and 22, hereinbefore described. Land rolling and hilly. Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> cuts. Timber pinion pine and cedar.

May 2<sup>nd</sup> 1911

May 8<sup>th</sup> 1911 At 7<sup>h</sup> 57<sup>m</sup> a.m. l.m.t. & set off. 36° 04 1/2' N. on the lat. arc. 16° 54 1/2' N. on the decl. arc. and determine a meridian with the solar alt. the cor. of secs. 15, 16, 21, and 22, hereinbefore described, thence I run,

N. 0° 02' W., bet. secs. 15 and 16,

Ascend S.W. slope over rolling sandy land through scattering pinion pine and cedar timber and scattering sage and greasewood brush undergrowth and bunch grass.

- 10.00 Leave timber bears N.E. and S.W.
- 18.00 Top of sand ridge bears N 20° W. and S 20° E desc.
- 40.00 Set a cedar post 3 ft. long 3 ins. sq. 24 ins. in the ground for 1/4 sec. cor. marked 1/4 S 16 on W. face, and S 15 on E. face.

BOOK 2624

- 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.
- 48.50 Hook of descent in depression bears N40°E and S40°W. drains N.E. asc. Enter pine and cedar timber bears N30°E and S30°W.
- 60.00 Top of rocky ridge bears E and W. desc. bears 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. 9, 10, 15 and 16. marked on brass cap T31N39 in NW. R18E, S10 in N.E. S15 in S.E. and S16 in SW. 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 and lully.
- Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.
- Pine and cedar.

- S. 89°51'E, on a random line, bet. sec 10 and 15,
- 40.00 Set temp. 1/4 sec. cor.
- 79.84 Intersect N and S. line, 3 lks. N. of the cor. of sec. 10, 11, 14, and 15, hereinbefore described, thence 1 run, N. 89°50' W., on a true line, bet. sec. 10 and 15
- Over rolling sandy land covered with scattering sage and greasewood brush undergrowth and bunch grass.
- 8.00 Road bears N60°E and S60°W.
- 39.92 Set a cedar post 3 ft. long, 3 ins. sq. with charred stake 24 ins. in the ground for 1/4 sec. cor. marked 1/4 S10. on N. face and S15 on S. face.
- 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.
- 79.84 The cor. of sec. 9, 10, 15 and 16, hereinbefore described
- Land rolling
- Soil sandy 3<sup>rd</sup> rate.
- No timber

Chain

## Subdivision of Twp 31 N. R 18 E.

27

- N.  $0^{\circ}02' W$ , bet. sec. 9. and 10,  
 Over rolling sandy land covered with scattering  
 sage and greasewood brush undergrowth  
 and bunch grass.
- 19.70 Dry ravine 8 lks. wide 3 ft. deep toward West.  
 ascend gradually.
- 40.00 Set a cedar post 3 ft. long 3 ins. sq. with  
 marked stone 24 ins. in the ground for  $\frac{1}{4}$  sec.  
 cor. marked  $\frac{1}{4}$  S 9. on W. face and S 10 on E.  
 face.
- Dig pits 18x18x12 ins. N. and S. of post. 3 ft.  
 dia. and raise a mound of earth  $3\frac{1}{2}$  ft.  
 base  $1\frac{1}{2}$  ft. high. W. of cor.
- 55.50 Enter scattering pinion pine and cedar  
 timber bears  $N 50^{\circ} W$ . and  $S 50^{\circ} E$ .
- 62.00 Top of rocky ridge bears E and W. desc. gently.
- 65.00 Leave timber bears  $N 35^{\circ} E$  and  $S 35^{\circ} W$ .
- 80.00 Set an iron post 3 ft. long. 2 ins. in diam.  
 24 ins. in the ground for cor. of sec. 3.  
 4. 9. and 10. marked on brass cap. T 31 N.  
 S 4 in N.W., R 18 E. S 3 in N.E. S 10 in S.E. and  
 S 9 in S.W. quadrant.
- Dig pits 18x18x12 ins. in each sec.  $5\frac{1}{2}$  ft. dia.  
 and raise a mound of earth 4 ft. base. 2 ft.  
 high. W. of cor.
- Land rolling.  
 Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.  
 Timber pinion pine and cedar

NOTE: At this cor. I set off  $16^{\circ}57' N$ . 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.

- S  $89^{\circ}50' E$ , on a random line, bet. sec. 3 and 10,  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 79.92 Intersect N and S. line, 10 lks. N. of the cor. of  
 sec. 2, 3, 10. and 11, hereinbefore described, thence I run,  
 N  $89^{\circ}46' W$ , on a true line, bet. sec. 3 and 10,  
 Descend S.W. slope over hilly sandy and stony  
 land. through scattering cedar and pinion  
 pine timber and sage brush undergrowth.

Subdivision of Twp 31 N. R 18 E.

28

Chain

BOOK 2624

- 17.40 Road bears  $N 35^{\circ} E$  and  $S 35^{\circ} W$ .
- 18.30 Foot of descent in depression bears  $N 35^{\circ} E$  and  $S 35^{\circ} W$ . drains to the S.W. are.
- 33.85 Top of rocky ridge bears  $N 30^{\circ} E$  and  $S 30^{\circ} W$ . desc.
- 39.96 Set a cedar post 3 ft. long 3 ins. sq. 24 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  33 on N. face and 310 on S. face from which  
A cedar 10 ins. in diam. bears  $N 22\frac{1}{2}^{\circ} W$  50 lbs. dist. marked  $\frac{1}{4}$  33 B.T. and  
A pinion pine 8 ins. in diam. bears  $S 24\frac{3}{4}^{\circ} E$  79 lbs. dist. marked  $\frac{1}{4}$  310 B.T.
- 44.80 Dry rocky ravine 10 lbs. wide course N.W. are.
- 47.00 Top of rocky ridge bears N.W. and S.E. desc.
- 64.15 Foot of descent in depression bears N.W. and S.E. drains. to the N.W. are.
- 65.50 Top of ridge bears N. and S. desc. Leave timber bears N and S.
- 79.92 The cor. of sec. 3, 4, 9. and 10, hereinbefore described.  
Land hilly.  
Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.  
Timber Cedar and pinion pine.

$N 0^{\circ} 02' W$ , on a random line, bet. sec. 3 and 4.  
40.00 Set temp.  $\frac{1}{4}$  sec. cor.

79.78 Intersect N. bdy. of Twp; 10 lbs.  $S 89^{\circ} 58' E$  the cor. of  
sec. 3, 4, 33. and 34; recently established by me as described in Exterior Book "AW," thence I run,  
 $S 0^{\circ} 06' E$ , on a true line, bet. sec. 3 and 4  
Arced N.W. slope over hilly sandy and stony land through scattering pinion pine and cedar timber and scattering sage and greasewood brush undergrowth and bunch grass

- 5.35 Top of rocky ridge bears  $N 40^{\circ} E$  and  $S 40^{\circ} W$ . desc
- 19.85 Leave timber bears  $N 70^{\circ} E$  and  $S 70^{\circ} W$ .
- 21.55 Sand stone ledge 20 ft. high. bears  $N 70^{\circ} E$  and  $S 70^{\circ} W$ . desc. abruptly.
- 39.78 Set a cedar post 3 ft. long 3 ins. sq. with marked stone 24 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  34 on W. face and 33. on E. face Dig pits 18x18x12 ins. N. and S. of post. 3 ft. dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base.  $\frac{1}{2}$  ft. high.



Submission of Twp 31 N. R18 E.

Chains

29

- W. of cor.
  - 55.35 The Crater Wash 100 lks. wide, banks 20 ft. high. course S35° W. asc.
  - 79.15 Dry ravine 20 lks. wide 3 ft. deep. course S50° W.
  - 79.78 The cor. of secs. 3, 4, 9, and 10, hereinbefore described.
- Land hilly.  
Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.  
Timber Cedar and fir or pine.

May 8<sup>th</sup> 1911

May 3<sup>rd</sup> 1911  
At 6<sup>h</sup> 57<sup>m</sup> a.m. l.m.t. set off 36° 02' N. on the lat. arc. 15° 28' 1/2 N. on the decl. arc and determine a meridian with the solar at the cor. of sec. 4, 5, 32, and 33, on the S. bdy. of the Tp. established by Sidney E. Bluff, March 11, 1909 which is an iron post 3 ins. in diam., 12 ins. above ground firmly set, marked <sup>on brass cap</sup> N18° E. in E half. T31 N. S33 in N.E. T30 N. S34 in S.E. S35 in S.W. and S32 in N.W. quadrants, with pits 18x18x12 ins. in each sec. 5 1/2 ft. dia. and a mound of earth 4 ft. base, 2 ft. high. W. of cor., thence I run, N. 0° 03' W., to cor. 32 and 33,  
Descend N.W. slope over rolling sandy land through scattering sage and greasewood brush undergrowth and bunch grass.

- 1.75 Road bears E and W.
- 32.30 Road bears N70° W. and S70° E at foot of descent in depression bears N70° W. and S70° E. drains to the N.W. ase.
- 40.00 Set a cedar post 3 ft. long 3 ins. sq. with marked stone 24 ins. in the ground for 1/4 sec. cor. marked 1/4 S32 on W. face and S33 on E. face.  
Dig pits 18x18x12 ins N. and S. of post 3 ft. dia. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.
- 80.00 Set an iron post 3 ft. long 2 ins. in diam., 24 ins. in the ground for cor. of sec. 28, 29, 32, and 33. marked on brass cap T31 N. S29 in N.W. N18° E S28 in N.E. S33 in S.E. and S32 in S.W. quadrants.  
Dig pits 18x18x12 ins. in each sec. 5 1/2 ft. dia. and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.

BOOK 2624

Land rolling  
Soil sandy 3<sup>rd</sup> rate.  
No timber.

- S 89° 58' E, on a random line, bet. secs. 28 and 33,  
40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
80.00 Intersect N. and S. line, 3 lks. N. of the cor. of  
secs. 27, 28, 33 and 34, hereinbefore described, thence I run,  
N. 89° 57' W., on a true line, bet. secs. 28 and 33.  
Ascend S.E. slope over rolling sandy and stony  
land through scattering sage and greasewood  
bush undergrowth and bunch grass  
6.00 Enter scattering pinion pine and cedar timber  
bear N 45° E and S 45° W.  
24.00 Top of rocky ridge bear N 50° E and S 50° W  
desc.  
31.30 Dry ravine 8 lks. wide course S 50° W. asc.  
Leaved timber bear N.E. and S.W.  
40.00 Set a cedar post 3 ft. long 3 ins. sq. with marked  
stone, 24 ins. in the ground for  $\frac{1}{4}$  sec. cor.  
marked  $\frac{1}{4}$  S 28 on N. face, and S 33 on S. face.  
Raise a mound of stone 2 ft. base  $\frac{1}{2}$  ft. high.  
N. of cor. Pile impracticable  
52.50 Road bear N 20° E and S 20° W.  
65.60 Foot of descent in depression bear N.E. and S.W.  
drains S.W. are over rolling sandy land.  
80.00 The cor. of secs. 28, 29, 32, and 33, hereinbefore  
described.  
Land rolling and hilly.  
Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.  
Timber pinion pine and cedar.

N. 0° 03' W., bet. secs. 28 and 29,

Ascend Over rolling sandy land, covered  
with sage and greasewood bush undergrowth  
and bunch grass.

- 38.40 Sand stone ledge 8 ft. high. bear E and W.  
38.60 Top of rocky ridge bear E and W. desc. N. slope.  
39.00 Enter scattering cedar and pinion pine timber  
bear N 40° E and S 40° W.  
40.00 Set a cedar post 3 ft. long 3 ins. sq. 24 ins. in

Lehains

31

the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  S 29 on W. face and S 28 on E. face. from which.  
A cedar 7 ins. in diam. bears N 63° E 52 lbs. dist. marked  $\frac{1}{4}$  S 28 B.T., No other trees within limits.  
Raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high. W. of cor. Pits impracticable

42.00 Clear timber bears N.E. and S.W.

80.00 Set an iron post 3 ft. long 2 ins. in diam. 24 ins. in the ground for cor. of secs. 20, 21, 28 and 29. marked on brass cap T 31 N. S 20 in N.W., R 18 E S 1 in N.E., S 28 in S.E., and S 29 in S.W. quadrants.

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

Land rolling

Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rates.  
Timber pine and cedar.

NOTE: At this cor I ran off  $15^{\circ} 31\frac{1}{2}'$  N. on the decl. arc and at noon observed the sun on the meridian and obtain a reading of  $36^{\circ} 03\frac{1}{2}'$  N. on the hor. arc.

40.00 Set temp.  $\frac{1}{4}$  sec. cor. S 89° 57' E, on a random line, bet. secs 21 and 28.

79.90 Intersect N. and S. line, 5 lbs. S. of the cor. of secs. 21, 22, 27, and 28, hereinbefore described, thence I run N. 89° 59' W., on a true line, bet. secs. 21 and 28; Descend W. slope over rolling sandy land, through scattering sage and greasewood brush undergrowth and bunch grass.

24.75 Road bears N 20° E. and S 20° W.

38.00 Foot of ditch in depression bears N and S drains to the north arc.

39.95 Set a cedar post 3 ft. long 3 ins. sq. with marked stone 24 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  S 21 on N. face and S 28 on S. face.

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.

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

BOOK 2624

78.50 Fork of descent in depression bears N. and S. drains to the north

79.90 The cor. of secs. 20, 21, 28, and 29, hereinbefore described  
Land rolling  
Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rates  
No timber

N. 0° 03' W, beth secs. 20 and 21,  
Descent N.W. slope over rolling sandy land through scattering sage and greasewood brush undergrowth and bunch grass

13.60 Road bears N 75° E and S 75° W,

30.60 Dry ravine 10 lbs. wide 1 ft. deep. Course west. bears rolling land bears E. and W. Enter level land.

40.00 Set a cedar post 3 ft. long, 3 ins. sq. with marked stone, 24 ins. in the ground for 1/4 sec. cor. marked 1/4 S 20 on W face and S 21 on E face  
Dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dish and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high.  
W. of cor

59.00 Level level land bears E and W. Enter rolling land. are. S. slope

80.00 Set an iron post 3 ft. long 2 ins. in diam. 24 ins. in the ground for. cor. of secs. 16, 17, 20, and 21 marked on bears Cop T 31 N. 317 in N.W. R 18 E. S. 16 in N.E. S 21 in S.E. and S 20 in S.W. quadrants.  
Raise a mound of stone 2 ft. base, 1 1/2 ft. high. W. of cor. Pits impracticable  
Land level and rolling  
Soil sandy 3<sup>rd</sup> rate.  
No timber

40.00 S 89° 59' E, on a random line, beth. secs. 16 and 21,  
Set temp. 1/4 sec. cor.

79.86 Intersect N and S. line, at the cor. of secs. 15, 16, 21, and 22, hereinbefore described, thence 1 run,

N. 89° 59' W, on a true line, beth. secs. 16 and 21,  
Descent gradually over N.W. slope, through scattering cedar and fir and pine timber and sage and greasewood brush undergrowth

Chains

33

- 23.00 Leave timber bears N. and S.  
 39.30 Dry ravine 10 lbs. wide course S 30° W. asc  
 39.93 Set a cedar post 3 ft. long 3 in. sq. with marked  
 stone 24 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  
 $\frac{1}{4}$  S 16 on N. face and S 21 on S. face.  
 Dig pits 18x18x12 ins. E and W. of post 3 ft. dist.  
 and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high.  
 N. of cor.  
 48.20 Top of rocky ridge 25 ft. above  $\frac{1}{4}$  sec. cor. bears  
 N 25° E and S 25° W. desc. gradually.  
 54.65 Dry rocky ravine 15 lbs. wide course S.W. asc.  
 79.86 The cor. of secs. 16, 17, 20 and 21, hereinbefore described.  
 Land rolling and hilly.  
 Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.  
 Timber Spruce pine and cedar

N. 0° 03' W., beth secs. 16 and 17,

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

- 10.00 Top of rocky ridge bears E and W. desc.  
 32.00 Post of descent in depression. bears E and W. drains  
 to the west. asc.  
 40.00 Set a cedar post 3 ft. long 3 in. sq. with marked  
 stone 24 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  
 $\frac{1}{4}$  S 17 on W. face and S 16 on E. face.  
 Dig pits 18x18x12 ins. N. and S. of post 3 ft. dist. and  
 raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high.  
 W. of cor.  
 54.00 Top of sand ridge bears E and W. desc.  
 80.00 Set an iron post 3 ft. long 2 in. in diam. 24 ins.  
 in the ground for cor. of secs. 8, 9, 16 and 17.  
 marked as bears cap T 31 N. S 8 in N. W., R 18 E 39 in  
 N. E., S 16 in S. E. and S 17 in S. W. quadrants.  
 Dig pits 18x18x12 ins. in each sec.  $5\frac{1}{2}$  ft. dist. and  
 raise a mound of earth 4 ft. base, 2 ft. high. W.  
 of cor.  
 Land hilly.  
 Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.  
 No timber.

May 3<sup>rd</sup> 1911

BOOK 2624

- May 9<sup>th</sup> 1911  
 Ah. 7<sup>h</sup> 27<sup>m</sup> am. Lined & set off 36° 05' 1/2" N.  
 on the lat. arc. 17° 10' 1/2" N. on the decl. arc and  
 determine a meridian with the solar at the cor-  
 of sec. 8, 9, 16, and 17, <sup>above described</sup> thence I run,  
 S 89° 57' E, on a random line, bet. sec. 9 and 16,  
 40.00 Set temp. 1/4 sec. cor.  
 79.80 Intersect N. and S. line, 8 lbs. N. of the cor. of sec.  
 9, 10, 15, and 16, hereinbefore described, thence I run,  
 N. 89° 56' W, on a true line, bet. sec. 9 and 16.  
 Over rolling sandy land, through scattering  
 sage and greasewood brush undergrowth and  
 bunch grass
- 31.45 Road or trail bears N. and S.  
 39.90 Set a cedar post 3 ft. long, 3 ins. sq. with marked  
 stone 24 ins. in the ground for 1/4 sec. cor. marked  
 1/4 S 9 on N. face, and S 16 on S. face.  
 Raise a mound of stone 2 ft. base 1 1/2 ft. high. N. of  
 cor. Pile impracticable
- 58.00 Top of sand ridge bears N. and S. desc.  
 79.80 The cor. of sec. 8, 9, 16, and 17, hereinbefore described.  
 Sand rolling.  
 Soil sandy 3<sup>rd</sup> rate.  
 No timber
- 
- N. 0° 03' W, bet. sec. 8 and 9,  
 Over rolling sandy land, covered with scattering  
 sage and greasewood brush undergrowth and  
 bunch grass
- 40.00 Set a cedar post 3 ft. long, 3 ins. sq. with marked  
 stone 24 ins. in the ground for 1/4 sec. cor. marked  
 1/4 S 8 on W. face and S 9 on E. face.  
 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.
- 48.00 The Craibi Wash 100 lbs. wide banks 20 ft. high.  
 Course S 30° W. asc. gradually over S.E. slopes.
- 63.00 Top of sand ridge bears N 70° W. and S 70° E. desc.
- 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 by brass cap. T 31 N. 35 in N.W., R 18 E. S 4  
 in N.E., S 9 in S.E. and S 8 in S.W. quadrants.

Subdivision of Twp 31 N. R18 E.

Chains

Dig pits 18x18x12 ins. in each sec. 5 1/2 ft. dia. and raise a mound of earth 4 ft. base. 2 ft. high. W. of cor.  
 Land rolling.  
 Soil sandy 3<sup>rd</sup> rate.  
 No timber

- 40.00 S 89° 56' E, on a random line, bet. sec. 4 and 9, 1/4 sec. cor.
- 79.84 Intersect N and S. line, 3 lks. S. of the cor. of sec. 3, 4, 9, and 10, hereinbefore described, thence 1 run, N. 89° 57' W., on a true line, bet. sec. 4 and 9, Descend N.W. slopes over rolling sandy land through scattering sage and greasewood brush undergrowth and bunch grass
- 2.00 Dry ravine 20 lks. wide 3 ft. deep course S 50° W.
- 25.50 Cross undergrowth and bunch grass, bear N.E. and S.W. Enter cultivated land, bear N.E. 15.00 lks. and S.W. 10.00 lks. dist.
- 34.20 Cross cultivated land bear N.E. 15.00 lks. and S.W. 10.00 lks. dist. Enter undergrowth and bunch grass.
- 36.00 The Craibi Wash 125 lks. wide, banks 20 ft. high. Course S 10° W. on S.E. slope
- 39.92 See a cedar post 3 ft. long 3 ins. sq. with marked stone, 24 ins. in the ground for 1/4 sec. cor. marked 1/4 S 4 on N. face and 3 9 on S. face.  
 Dig pits 18x18x12 ins. E and W. of post 3 ft. dia. and raise a mound of earth 3 1/2 ft. base. 1 1/2 ft. high. N. of cor.
- 48.15 Top of stony ridge bear N 40° E and S 40° W. due.
- 77.20 Dry ravine 30 lks. wide 4 ft. deep course S 25° E. etc.
- 79.84 The cor. of sec. 4, 5, 8, and 9, hereinbefore described.  
 Land rolling and hilly.  
 Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.  
 No timber

NOTE: - At this end set off 17° 13' N. on the decl. arc and at noon observe the sun on the meridian and obtain a reading of 36° 06' N. on the lab. arc.

BOOK 2624

- 40.00 N. 0° 03' W., on a random line, bet. sec. 4 and 5  
Set tarp 1/4 sec. cor.
- 79.80 Intersect N. S. ldy. of Twp. 25 lks. S 89° 58' E. of the cor. of  
secs. 4, 5, 32, and 33, <sup>recently established by me as described in</sup> Exterior Book "AW", thence I run,  
S 0° 14' E on a true line, bet. sec. 4 and 5,  
Ascend N. slope over hilly sandy and stony land  
through scattering cedar and pinion pine timber  
and scattering sage and greasewood brush under  
growth and bunch grass
- 8.00 Top of rocky ridge 30 ft. above cor. bears N 35° W  
and S 35° E. decl.
- 27.30 Dry ravine 10 lks. wide course S 40° W. asc.
- 37.75 Top of rocky ridge bears N. E. and S. W. desc.
- 39.80 Set a cedar post 3 ft. long 3 in. sq. 24 in. in the  
ground for 1/4 sec. cor. marked 1/4 35 on W. face  
and 34 on E. face. from which.  
A cedar 16 in. in diam. bears N 48 3/4° W 43 lks. dist.  
marked 1/4 55 B.T. and  
A cedar 10 in. in diam. bears S 71 1/2° E 80 lks. dist.  
marked 1/4 54 B.T.
- 45.00 Lean timber bears E and W.
- 46.10 Dry ravine 15 lks wide course S 30° W.
- 76.40 The same ravine 10 lks. wide 3 ft. deep. course S 45° E  
asc gradually.
- 79.80 The cor. of secs. 4, 5, 8, and 9, hereinbefore described.  
Land hilly.  
Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.  
Timber Pinion pine and cedar

May 9<sup>th</sup> 1911

May 4<sup>th</sup> 1911  
At 7<sup>h</sup> 57<sup>m</sup> a.m. l.m.t. I set off 36° 02' N.  
on the lat. arc. 15° 46 1/2' N. on the decl. arc and  
determine a meridian with the solar at the  
cor. of secs. 5, 6, 31, and 32, on S. ldy. of Twp. which  
<sup>established by Sidney E. Blout March 11, 1909</sup>  
is an iron post 3 in. in diam. 12 in. above ground  
firmly set marked on base cap R 18 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. quadrants, with pins 18 x 18 x 12 in.  
in each sec. 5 1/2 ft. dist. and a mound of earth  
4 ft. base, 2 ft. high. W. of cor., thence I run  
N 0° 03' W. bet. sec. 34 and 33  
Descend N.W. slope over rolling sandy land through



- Scattering sage and greasewood brush undergrowth and bunch grass
- 40.00 Set a cedar post 3 ft. long 3 ins. sq. with marked stone 24 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  S 31 on W. face and S 32. on E. face  
Dig pits 18 x 18 x 12 ins N. and S. of post 3 ft. dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high. W. of cor.
- 58.38 Road 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. 29, 30, 31, and 32. marked on brass cap T 31 N, S 30 in NW, R 18 E S 29 in N.E., S 32 in S.E. and S 31 in S.W. quadrants  
Raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high. W. of cor. Pits impracticable  
Land rolling.  
Soil sandy 3<sup>rd</sup> rate.  
No timber

- 40.00 S  $89^{\circ}58'$  E, on a random line, bet. sec. 29 and 32, set temp.  $\frac{1}{4}$  sec. cor.
- 79.88 Intersect N. and S. line, 8 lks. S. of the cor. of sec. 28, 29, 32. and 33, hereinbefore described, thence I run, S  $89^{\circ}59'$  W., on a true line, bet. sec. 29 and 32, descend S.W. slope over rolling sandy land through scattering sage and greasewood brush undergrowth and bunch grass.
- 39.94 Set a cedar post 3 ft. long 3 ins. sq. with marked stone, 24 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  S 29, on N. face, and S 32 on S. face. 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.

NOTE: At this cor. I set off  $15^{\circ}49'$  N. on the decl. arc and at noon observe the sun on the meridian and obtain a reading of  $36^{\circ}03'$  N. on the lat. arc.

- 44.00 Dry ravine 10 lks. wide course S  $30^{\circ}$  W., arc
- 48.00 Top of rocky ridge bears N. and S. decl

BOOK 2624

- 56.85 Foot of descent in depression bears N. and S. drains to the South east.
- 61.00 Prof. of rocky ridges bears N and S. dire.
- 79.88 The cor. of secs 29, 30, 31 and 32, hereinbefore described.  
Land rolling and hilly.  
Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.  
No timber

- 40.00 Sec temp.  $\frac{1}{4}$  sec. cor.
- 78.54 Intersect W. ldy of Pp. 9 lks. N. of the cor. of sec. 25, 30, 31 and 36, <sup>presently estab. by md. as described in</sup> Exterior Book "AV," thence 1 run,  
N. 89° 58' E., on a true line, bet. sec. 30 and 31,  
Over level cultivated land.
- 12.80 Level cultivated land bears N.E. and S.W. Enter scattering sage and greasewood bush undergrowth.
- 21.75 Brad bears N 60° E and S 60° W.
- 22.00 Level level land bears N.E. and S.W., Enter rolling sandy land., asc. N.W. slope.
- 38.54 Set a cedar post 3 ft. long 3 ins. sq. with marked stone 24 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  S 30 on N. face, and S 31 on S. face.  
Dig pits 18 x 18 x 12 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.
- 78.54 The cor. of secs. 29, 30, 31 and 32, hereinbefore described.  
Land level and rolling.  
Soil sandy 2<sup>nd</sup> and 3<sup>rd</sup> rate.  
No timber

- N. 0° 03' W., bet. sec. 29, and 30,  
Over rolling sandy land covered with scattering sage and greasewood bush undergrowth and bunch grass.
- 1.00 Foot of descent in depression bears East and W. drains to the west. asc
- 40.00 Set a cedar post 3 ft. long, 3 ins. sq. with marked stone 24 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  S 30 on W. face and S 29 on E. face.  
Raise a mound of stone 2 ft. base, 1  $\frac{1}{2}$  ft. high. W.

Subdivision of N<sup>o</sup> 31 N. R 18 E.

Chains

39

- of cor. Pits impracticable  
This cor. is situated on top of sand ridge, trend  
E. and W. desc.
- 56.20 Road bears N60°E and S60°W.
- 65.40 Road bears N40°E and S40°W, on foot of descent  
Leaves rolling land bears N.E. and S.W. Enter level  
land bears N.E. and S.W.
- 80.00 Set an iron post 3 ft. long 2 in. in diam. 24  
in. in the ground for cor. of sec. 19, 20, 29, and  
30, marked on brass cap 31 N, S 19 in NW, R 18 E  
S 20 in N.E. S 29 in S.E. and S 30 in S.W. quadrants.  
Dig pits 18x18x12 in. in each sec., 5½ ft. deep and  
raise a mound of earth 4 ft. base, 2 ft. high.  
W. of cor.  
Land level and rolling.  
Soil sandy 3<sup>rd</sup> rate.  
No timber.
- May 4<sup>th</sup> 1911
- May 10<sup>th</sup> 1911  
At 6<sup>h</sup> 56<sup>m</sup> a.m. Lmt. S. sec. of 36° 03½'  
N on the lat. arc. 17° 26½' N. on the decl. arc. and  
determine a meridian with the solar at the  
cor. of sec. 19, 20, 29, and 30, <sup>above described</sup> thence I run,  
N. 89° 59' E, on a random line, bet. sec. 20 and 29,
- 40.00 Set temp. ¼ sec. cor.
- 79.86 Intersect N and S. line, 3 lks. N. of the cor. of  
sec. 20, 21, 28 and 29, hereinbefore described, thence I run,  
W. on a true line, bet. sec. 20 and 29,  
Descend N.W. slope over rolling sandy land through  
scattering sage and greasewood brush undergrowth  
and thick grass
- 39.93 Set a cedar post 3 ft. long 3 in. dia. with  
marked stout, 24 in. in the ground for ¼ sec.  
cor. marked ¼ S 20 on N. face, and S 29, on S.  
face.  
Dig pits 18x18x12 in. E and W. of post 3 ft.  
deep, and raise a mound of earth 3½ ft. base 1½  
ft. high N. of cor.
- 57.20 Road bears N70°E. and S70°W.
- 65.00 Foot of descent. Leaves rolling land bears N.E.  
and S.W. Enter level land.
- 79.86 The cor. of sec. 19, 20, 29, and 30, hereinbefore described.

BOOK 2624

Land level and rolling  
Soil sandy 2<sup>nd</sup> and 3<sup>rd</sup> rate.  
No timber

- 40.00 Set temp. 1/4 sec. cor.  
78.54 Intersect W. liny, of Twp., 4 lks. N. of the cor. of sec. 19, 24, 29 and 30, <sup>recently established by me as described in Exterior Book "AV," thence I run,</sup>  
N. 89° 56' E., on a true line, bet. sec. 19 and 30,  
Descend N.E. slope over rolling sandy land, through scattering sage and greasewood brush undergrowth and bunch grass.  
9.26 Dry ravine 15 lks. wide 3 ft. deep. course S.E.  
10.00 Mouth of descent, level rolling land bears N.W. and S.E. Enter level sandy land bears N.W. and S.E.  
38.54 Set a cedar post 3 ft. long 3 ins. sq. with marked stone 24 ins. in the ground for 1/4 sec. cor. marked 1/4 S 19 on N. face, and S 30 on S. face.  
Dig pits 18 x 18 x 12 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.  
46.60 The Craie Wash (dry) 70 lks. wide, banks 25 ft. high. Course S 38° W.  
78.54 The cor. of sec. 19, 20, 29, and 30, hereinbefore described.  
Land level and rolling  
Soil sandy 3<sup>rd</sup> rate.  
No timber

- N. 0° 03' W., bet. sec. 19, and 20,  
Over level sandy land covered with scattering sage and greasewood brush undergrowth and bunch grass.  
40.00 Set a cedar post 3 ft. long 3 ins. sq. with marked stone, 24 ins. in the ground for 1/4 sec. cor. marked 1/4 S 19 on W. face and S 20 on E. face  
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.  
50.70 Dry sand wash. 30 lks. wide 5 ft. deep course S 60° W.

Lehain

41

80.00 Set an iron post 3 ft. long 2 ins. in diam. 24 ins. in the ground for cor. of sec. 17, 18, 19, and 20, marked on brass cap. T 31 N, S 18 in NW, R 18 E, S 17 in N.E., S 20 in S.E., and S 19 in S.W. quadrants. Dig pits 18x18x12 ins. in each sec., 5 1/2 ft. diam. and raise a mound of earth 4 ft. base, 2 ft. high. W. of cor.  
 Land level.  
 Soil sandy 2<sup>nd</sup> and 3<sup>rd</sup> rate.  
 No timber

40.00 Run on a random line, bet. sec. 17 and 20  
 79.86 Set temp. 1/4 sec. cor.  
 Intersect N. and S. line, 8 lks N. of the cor. of sec. 16, 17, 20, and 21, hereinbefore described, thence I run, N. 89° 57' W., on a true line, bet. sec. 17 and 20. Ascend E. slope, over hilly sandy and stony land through scattering sage and greasewood bushes, undergrowth and bunch grass.

4.90 Top of ridge bears N. and S. desc.  
 10.15 Dry ravine 12 lks. wide course S.W. asc.  
 22.00 Top of rocky ridge bears N. and S. desc  
 39.93 Set a cellar post 3 ft. long 3 ins. sq with marked stone 24 ins. in the ground for 1/4 sec. cor. marked 1/4 S 17 on N. face, and S 20 on S face Dig pits 18x18x12 ins. East W. of post. 3 ft. diam. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.

41.05 Dry ravine 15 lks. wide 2 ft. deep course S 30° W.  
 54.80 Top of descent, leave hilly land bear N. and S. Enter level land.  
 58.00 Dry ravine 25 lks. wide 3 ft. deep course S 60° W.  
 79.86 The cor. of sec. 17, 18, 19, and 20, hereinbefore described. Land level and hilly.  
 Soil sandy 2<sup>nd</sup> and 3<sup>rd</sup> rate.  
 No timber

40.00 S 89° 56' W., on a random line, bet. sec. 18 and 19,  
 78.42 Set temp. 1/4 sec. cor.  
 Intersect W. dry. of No. 1, 5 lks N. of the cor.

BOOK 2624

- of secs 13, 18, 19, and 24, <sup>recently established by me, as described in Exterior Book "AV," thence I run,</sup>  
 N. 89° 54' E., on a true line, bet. secs. 18 and 19,  
 ascend W. slope over stony hilly land, through  
 scattering sage and greasewood brush undergrowth  
 and bunch grass.
- 24.40 Top of rocky ridge bears N. and S. desc.
- 38.42 Set a cedar post 3 ft. long 3 ins. sq. with marked  
 stone 24 ins. in the ground for 1/4 sec. cor. marked  
 4 1/4 S 18 on N. face and S 19 on S. face.  
 Dig pits 18 x 18 x 12 ins. E and W. of post. 3 ft.  
 dia. and raise a mound of earth 3 1/2 ft. base  
 1 1/2 ft. high. N. of cor.
- 69.10 The Oraibi Wash. (dry) 100 lbs. wide, banks 20  
 ft. high. Course South. Leave hilly land bears  
 N. and S. Enter level land.
- 78.42 The cor. of secs. 17, 18, 19, and 20, hereinbefore described.  
 Land level and hilly.  
 Soil sandy 3<sup>rd</sup> and 4<sup>th</sup> rate.  
 No timber

NOTE: Clouds obscure the sun at noon today, rendering  
 an observation for latitude impossible

May 10<sup>th</sup> 1911

- May 11<sup>th</sup> 1911  
 At 6<sup>h</sup> 56<sup>m</sup> a.m. l.m.l. I set off 36° 04' 1/2"  
 N on the lab. arc. 17° 42' 1/2" N. on the decl. arc and  
 determine a meridian with the solar at  
 the cor. of secs. 17, 18, 19, and 20, <sup>hereinbefore described</sup> thence I run,  
 N. 0° 03' W., bet. secs. 17, and 18;  
 Over level sandy and adobe land, through  
 scattering sage and greasewood brush undergrowth  
 and bunch grass.
- 20.35 The Oraibi Wash. 150 lbs. wide, banks 20 ft.  
 high. Course S 20° W.. Leave undergrowth bears  
 N 20° E and S 20° W.
- 21.85 Enter cultivated land bears N.E. 5.00 chs. and  
 S.W. 3.00 chs. dia.
- 32.00 Leave cultivated land bears N 30° E 5.00 chs. and  
 S 30° W. 8.00 chs. dia. Enter undergrowth  
 bears N 30° E and S 30° W.
- 40.00 Set a cedar post 3 ft. long 3 ins. sq. with

## Sullivan road of Tp. 31 N., R. 18 E.

43

marked stone 24 ins. in the ground, for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  S 18 on W. face and S 17 on E. face.

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

80.00 Set an iron post 3 ft. long 2 ins. in diam. 24 ins. in the ground for cor. of sec. 7, 8, 17, and 18, marked as brass cap T 31 N. 37 in N.W. R 18 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.  $5\frac{1}{2}$  ft. diam. and raise a mound of earth 4 ft. base, 2 ft. high. W. of cor.

Land level.

Soil sandy 2<sup>nd</sup> rate.

No timber

40.00 S.  $89^{\circ}57'E$ , on a random line, bet. sec. 8 and 17, set temp.  $\frac{1}{4}$  sec. cor.

79.82 Intersect N. and S. line, 3 lks. N. of the cor. of sec. 8, 9, 16, and 17, hereinbefore described, thence I run, N.  $89^{\circ}56'W$ , on a true line, bet. sec. 8 and 17.

Pescend NW. slope on gently rolling sandy land, through scattering sage and greasewood brush undergrowth and bunch grass.

27.65 The Craib Wash. 175 lks. wide 25 ft. deep crossed South. Level rolling land bears. N. and S. Enter level land.

39.91 Set a cedar post 3 ft. long 3 ins. sq. with marked stone 24 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  S 8 on N. face and S 17 on S. face

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

79.82 The cor. of sec. 7, 8, 17, and 18, hereinbefore described.

Land level and rolling

Soil sandy 2<sup>nd</sup> and 3<sup>rd</sup> rate.

No timber

BOOK 2624

- 89°54' W., on a random line, bet. sec. 7 and 18;  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 78.30 Intersect W. ldy of Twp, 4 lks N. of the cor. of  
 sec. 7, 12, 13, and 18, <sup>recently established by me as described in</sup> Exterior Book "AV", thence I run,  
 N. 89°52' E., on a true line, bet. sec. 7 and 18.  
 Over rolling sandy land slopes to N.E. through  
 scattering sage and greasewood brush under-  
 growth and bunch grass and scattering cedar  
 timber  
 34.00 Leave timber bears N and S.  
 38.30 Set a cedar post 3 ft. long 3 ins. sq. with  
 marked stone 24 ins. in the ground for  $\frac{1}{4}$  sec.  
 cor. marked  $\frac{1}{4}$  57 on N. face and 318 on S. face  
 Dig pits 18x18x12 ins E and W. of post. 3 ft. dia.  
 and raise a mound of earth 3  $\frac{1}{2}$  ft. base, 1  $\frac{1}{2}$  ft.  
 high N. of cor.  
 78.30 The cor. of sec. 7, 8, 17, and 18, hereinbefore described.  
 Land rolling.  
 Soil sandy 3<sup>rd</sup> rate.  
 Timber pinon pine and cedar.

- N. 103° W., bet. sec. 7 and 8,  
 Over nearly level sandy land. Covered with  
 scattering sage and greasewood brush under-  
 growth and bunch grass.  
 40.00 Set a cedar post 3 ft. long 3 ins sq. with  
 marked stone 24 ins. in the ground. for  $\frac{1}{4}$   
 sec. cor. marked  $\frac{1}{4}$  37. on W. face and 38.  
 on E. face.  
 Dig pits 18x18x12 ins. N and S. of post 3 ft. dia.  
 and raise a mound of earth 3  $\frac{1}{2}$  ft. base, 1  $\frac{1}{2}$  ft.  
 high W. of cor.  
 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 37 N. 56 in NW. R18 E  
 35 in N.E., 58 in S.E. and 37, in S.W. quadrants.  
 Dig pits 18x18x12 ins. in each. sec. 5  $\frac{1}{2}$  ft. dia  
 and raise a mound of earth 4 ft. base, 2 ft.,  
 high W. of cor.  
 Land rolling.  
 Soil sandy 3<sup>rd</sup> rate.



Chain

No timber

NOTE: - At this cor I set off  $17^{\circ}45'$  N. on the decl. arc and at noon observed the sun on the meridian and obtain a reading of  $36^{\circ}06'$  N. on the lat. arc.

$S 89^{\circ}56' E$ , on a random line, bet. sec. 5 and 8;  
40.00 Set temp.  $\frac{1}{4}$  sec. cor.

79.84 Intersect N. and S. line, 10 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.

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

9.50 Enter scattering cedar timber bears  $N 40^{\circ} E$ , and  
 $S 40^{\circ} W$ .

32.50 Leave timber bears N. and S.

38.90 Begin abrupt ascent over stony hilly land.

39.92 Set a cedar post 3 ft. long 3 ins. sq. with marked  
stone 24 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  
14 S 5 on N. face and S 8 on S. face.

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

43.55 Top of rocky ridge bears N. and S. desc. W. slopes  
over rolling sandy land.

79.84 The cor. of sec. 5, 6, 7, and 8, hereinbefore described.  
Land rolling and hilly.

Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.  
Timber cedar and pinon pine

$S 89^{\circ}52' W$ , on a random line, bet. sec. 6 and 7,  
40.00 Set temp.  $\frac{1}{4}$  sec. cor.

78.18 Intersect W. line of Twp., 7 lbs. N. of the cor. of  
sec. 1, 6, 7, and 12, recently established by me as described in  
Exterior Book "AV", thence I run,

$N 89^{\circ}49' E$ , on a true line, bet. sec. 6 and 7.

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

16.00 Dry rancho 20 lbs. wide 1 ft. deep. course  $N 65^{\circ} E$ .

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

Subdivision of Twp 31 N., R18 E.

46 Chain  
BOOK 2624

stone 24 ins. in the ground for 1/4 sec. cor. marked 1/4 36 on N. face and S 7. on S. face.

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

49.83 The same dry ravine course S 25° E. asc. SW. slopes.

78.18 The cor. of secs. 5, 6, 7, and 8, hereinbefore described. Land rolling. Soil sandy 3<sup>rd</sup> rate. No timber

N. 0° 03' W. on a random line, bet. secs. 5 and 6. 40.00 Set temp. 1/4 sec. cor.

79.78 Intersect N. side of Twp. 35 lks. S 89° 58' E. of the cor. of secs. 5, 6, 31 and 32, <sup>recently established by me as described in Exterior Book "AW", thence I run,</sup> S. 0° 18' E., on a true line, bet. secs. 5 and 6.

Descend S.E. slope over stony hilly land through scattering cedar and pinus pine timber and sage brush undergrowth and bunch grass.

15.00 Dry rocky ravine 10 lks. wide, course S 30 W. asc.

19.50 Top of rocky ridge bears N.E. and S.W. desc.

22.00 Dry ravine 10 lks. wide course S 40° W. asc.

39.78 Set a cedar post 3 ft. long 2 ins. sq. 24 ins in the ground for 1/4 sec. cor. marked 1/4 36 on W. face and S 5 on E. face. from which.

A cedar 9 ins. in diam. bears N 73 1/2° E 198 lks. dist. marked 1/4 35 B.T. and

A cedar 10 ins. in diam. bears N 28 1/2° W 154 lks. dist. marked 1/4 36 B.T.

43.00 Top of rocky ridge bears N.E. and S.W. desc.

60.00 Hard timber bears E. and W.

79.78 The cor. of secs. 5, 6, 7, and 8, hereinbefore described. Land hilly.

Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.

Timber: pinus pine and cedar

May 11<sup>th</sup> 1911

## General Description.

The land contained within this township varies from level to hilly, and the soil ranges from stony to a sandy loam. The soil of the bottom land along the Oraibi Wash in the north western part of the township is a rich sandy loam, and is being farmed at the present time, to a limited extent, by the Navajo Indians, without the aid of irrigation. The soil of the remaining portion of the township can nearly all be classed as third rate, is covered with a good growth of bunch grass, but is not suitable for agricultural purposes.

Cedar and pinion pine timber is found scattered over the greater portion of the hilly part of the township, most of which is too small to be of any value except for fuel.

Outcroppings of sand stone were found in many places in the township, and from surface indications it is probable that a large portion of the township is underlain with sand stone. The stone however is too soft to be of value as a building material.

The township is poorly watered, there being no living water except in a small alkali spring in Sec. 14.

The only settlers in the township are Navajo Indians whose residence is not permanent.

May 11 - 1911

Van L. White  
U.S. Geologist

BOOK 2624 49

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. 18 E., G. & S. P. B. & M., Arizona. showing the respective capacities in which they acted:

T. Y. White, Chainman.  
Richard L. Shumway, Chainman.  
Earl Albright, Moundman.  
~~Moundman.~~  
Harry D. Cates, Axman.  
Nelson Polacca, 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 18 E

of the Gila and Salt River Baseline 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~~ <sup>executed</sup>, and the corner monuments established, according to the instructions furnished by the ~~United States Surveyor General for~~ Commissioner of the General Land Office

T. Y. White, Chainman.  
Richard L. Shumway, Chainman.  
Earl Albright, Moundman.  
~~Moundman.~~  
Harry D. Cates, Axman.  
Nelson Polacca, Axman.  
William R. Carson, Flagman.

Subscribed and sworn to before me this 15<sup>th</sup> day of May, 1911



Van L. White  
U.S. Transitman

BOOK 2624

TRANSITMAN  
FINAL OATH OF UNITED STATES DEPUTY SURVEYOR

I, Van L. White, <sup>TRANSITMAN</sup> United States ~~Deputy Surveyor~~, do solemnly swear that, in pursuance of ~~contract~~ <sup>Special Instructions</sup> received from ~~the Commissioner of the United States Surveyor General for~~ <sup>the Commissioner of the General Land Office</sup>, bearing date of the ~~2<sup>nd</sup> day of Oct. 1907~~ <sup>and the 15<sup>th</sup> day of May, 1908</sup>, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor <sup>Commissioner</sup> 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. 18 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~~ <sup>Commissioner</sup> 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 27<sup>th</sup> day of December, 1912.



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

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona, APR 25, 1914

The foregoing field notes of the survey of the Subdivision lines of  
Township N° 31 North, Range N° 18 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 A. Ingalls  
United States Surveyor General  
SURVEYOR-GENERAL OF ARIZONA

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

\_\_\_\_\_  
United States Surveyor General.