

Subdivisional  
BOOK "ZP"

2620

FIELD NOTES

OF THE SURVEY OF THE

BOOK 2620

*Subdivision lines of Tp. 31 N. R. 14 E.*

Of the *Gila and Salt River Base and Meridian,*

*in the Territory of Arizona*

AS SURVEYED BY

*Van L. White* ~~U.S. Transient~~ ~~United States Deputy Surveyor,~~  
*Special Instructions*

Under his Contract No. \_\_\_\_\_, dated *Oct 2<sup>nd</sup> 1907 and May 15<sup>th</sup> 1908*

Survey commenced *December 7<sup>th</sup>* \_\_\_\_\_, 19*10*

Survey completed *December 19<sup>th</sup>* \_\_\_\_\_, 19*10*

NAMES AND DUTIES OF ASSISTANTS.

<i>W. V. White</i>	<i>Chairman</i>
<i>Oscar W. Hutton</i>	<i>Chairman</i>
<i>Ralph C. Sampson</i>	<i>Wardman</i>
<i>George B. Seig.</i>	<i>Carpenter</i>
<i>Nelson Tolacca</i>	<i>Carpenter</i>
<i>William R. Carson</i>	<i>Plumber</i>

BOOK 2620

Plat No. 2620

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(C)

PRELIMINARY OATHS OF ASSISTANTS.

BOOK 2620  
WE,

T. Y. White and Oscar W. Fetters

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. 14 E. G. & S. R. B. & M. Arizona

T. Y. White, Chainman.  
Oscar W. Fetters, Chainman.

Subscribed and sworn to before me this 1<sup>st</sup>  
day of December, 1910



Van L. White  
U.S. Transitman

~~WE~~ I, Ralph C. Sampson

do solemnly swear that ~~we~~ I will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given ~~me~~ to the best of ~~my~~ skill and ability, in the survey of

the Subdivision lines of Tp. 31 N. R. 14 E. G. & S. R. B. & M. Arizona

Ralph C. Sampson, Moundman.

Subscribed and sworn to before me this 1<sup>st</sup>  
day of December, 1910



Van L. White  
U.S. Transitman

WE, George B. Seig 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. 14 E. G. & S. R. B. & M. Arizona

George B. Seig, Axman.  
Nelson Polacca, Axman.

Subscribed and sworn to before me this 1<sup>st</sup>  
day of December, 1910



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. 14 E. G. & S. R. B. & M. Arizona

William R. Carson, Flagman.

Subscribed and sworn to before me this 1<sup>st</sup>  
day of December, 1910



Van L. White  
U.S. Transitman

Survey commenced Decem<sup>r</sup> 7<sup>th</sup> 1910, and executed with a W & L. E. Gurley engineers transit No. 76, with a Burk 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 instrument and find them correct, and know from recent tests of the solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p.m. hours, with a meridian established 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 North boundary of this township in Exterior Book "A5".

I begin at the cor. of sec. 1, 2, 35 and 36. on S. side of N. 31 T. 14 E. which I established November 17<sup>th</sup> 1910. Latitude  $36^{\circ}01'54''$  N. Longitude  $110^{\circ}48'17''$  W.

At 7<sup>h</sup> 52<sup>m</sup> a.m. Lat. Dec. 7<sup>th</sup> 1910<sup>1910</sup> set off  $36^{\circ}02'$  N. on the lat. arc.  $22^{\circ}30'$  S. on the decl. arc and determine a meridian with the solar at the above cor.; thence Run N.  $0^{\circ}01'$  W., to cor. sec. 35 and 36,

arc and gradually over S.W. slope, through scattering sage and greasewood brush undergrowth and bunch grass

40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins in the ground for  $\frac{1}{4}$  sec. cor. marked on brass cap  $1^{\circ}45'$  S 35 on W. half and S 36. on E. half.

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

80.00 Set an iron post 3 ft. long 2 in. in diam. 24 ins in the ground for cor. of sec. 25, 26, 35 and 36. marked on brass cap T 31 N. S 26 in N.W. R 14 E. S 25 in N.E. S 36 in S.E. and S 35 in S.W. quadrant. Dig pits 18x18x12 ins. in each sec.  $5\frac{1}{2}$  ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.

Land rolling.

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

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No timber

40.00 N. 89° 59' E, on a random line, bet. sec. 25 and 36,  
Set temp 1/4 sec. cor.

80.06 Intersect E. ldy. of T<sub>31</sub>, 5 lks. N. of the cor. of sec.  
25, 30, 31, and 36; recently established by me as described in Exterior Book "AS", thence I run,

40.00 N. 89° 59' W, on a true line, bet. sec. 25 and 36,  
Descend W. slope over rolling sandy land through  
scattering cedar timber, and sage brush undergrowth  
10.00 Leave timber bears N. and S.

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

1/4 S 25 on N. half and S 36 on S. half.

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

80.06 The cor. of sec. 25, 26, 35 and 36, hereinbefore described.

Land rolling.

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

Timber scattering cedar.

N. 0° 01' W, bet. sec. 25 and 26,

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

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

cap 1/4 S 26 on W. half, and S 25 on E. half.

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

61.00 Tops of sand ridge bears N.E. and S.W. desc. gently  
over N.W. slope.

80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in  
the ground for cor. of sec. 23, 24, 25 and 26

marked on brass cap T 31 N. S 23 in N.W. R 14

E. S 24 in N.E. S 25 in S.E. and S 26 in S.W.

quadrant.

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

Subdivision of Twp 31 N., R 14 E.

Chain

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

40.00 S. 89° 59' E., on a random line, bet. sec. 24 and 25,  
Set temp 1/4 sec. cor.

80.04 Intersect E. liny. of Twp; 7 lks. S. of the cor. of sec.  
19, 24, 25 and 30, thence I run

S 89° 58' W., on a true line, bet. sec. 24 and 25,  
Ascend E. slope through scattering cedar timber  
and sage brush undergrowth.

17.30 Road to Indian Hogs, bears N. and S.

22.00 Dip of sand ridge bears N.W. and S.E. decl. gradually.

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

44° 32' on N. half and S 25° on S. half from which  
a cedar 8 in. in diam. bears N 0 1/2° W. 347 lks.  
dih. marked 1/4 S 24 B.T. and

a cedar 16 in. in diam. bears S 3° E. 155 lks.  
dih. marked 1/4 S 25 B.T.

NOTE: - At this cor. Dip of 22° 34' S. on the decl. arc,  
and at noon observe the sun on the meridian  
and obtain a reading of 36° 03 1/2' N. on the lat.  
arc.

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

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

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

Land rolling.  
Soil sandy 3<sup>rd</sup> rate.  
Timber Cedar

N 0° 01' W., bet. sec. 23 and 24,

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

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

40.00 Set an iron post 3 ft. long 1 in. in diam. 26  
in. in the ground for 1/4 sec. cor. marked on  
brass cap 1/4 S 23 on W. half and S 24 on E. half.

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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 secs. 13, 14, 23, and 24, marked on brass cap T 31 N. S 14 in N.W. R 14 E S 13 in N.E. S 24 in S.E. and S 23 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.

Land rolling.

Soil sandy 3rd rate

No timber

N 89° 58' E, on a random line, bet. sec. 13 and 24, 40.00 Set temp. 1/4 sec. cor.

80.04 Intersect E. boundary of M. 8 lks. S. of the cor. of sec. 13, 18, 19, and 24, <sup>recently established by me as described in Exterior Book "A5", thence I run,</sup>

S 89° 55' W, on a true line, bet. sec. 13 and 24,

Over broken stony land through scattering cedar timber and greasewood brush undergrowth

8.45 Dry ravine 20 lks. wide course North ascend.

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

32.00 Dry rocky ravine course N.E. asc.

40.02 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for 1/4 sec. cor. marked on brass cap 1/4 S 13 on N. half and S 24 on S. half, from which a cedar 20 ins. in diam. bears N 59 3/4° W 85 lks. dist. marked 1/4 S 13 B.T. and

a cedar 8 ins. in diam. bears S 27° W 215 lks. dist. marked 1/4 S 24 B.T.

54.00 Top of sand ridge bears N. and S. desc. gradually over rolling land, <sup>Road to Indian hogans, bears N. and S.</sup> bears N. and S.

80.04 The cor. of sec. 13, 14, 23 and 24, hereinbefore described.

Land rolling hilly and broken.

Soil sandy and stony 3rd and 4th rate.

Timber Cedar

N 0° 01' W, bet. sec. 13 and 14,

Descend N.W. slope over rolling sandy land



Chain

- through sage and greasewood bush undergrowth and bunch grass
- 11.00 A point from which a Navajo Hogaw head east. 8.00 chs. dist.
- 13.90 Dry ravine 25 lbs. wide course west. asc. Leav. rolling land bears E. and W. Enter hilly land.
- 16.30 Top of sand ridge bears E. and W. desc.
- 19.00 A point from which an Indian Hogaw head east. 6.00 chs. dist.
- 22.54 Dry ravine 20 lbs. wide course S 50° W. asc. Enter scattering cedar timber bears N.E. and S.W.
- 40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for 1/4 sec. cor. marked on base cap. 1/4 S 14 on W. half and S 13 on E half. from which a cedar 8 ins. in diam. bears N 57 3/4° W 263 lbs. dist. marked 1/4 S 14 B.T. and  
A cedar 10 ins. in diam. bears S 83 1/2° E. 233 lbs. dist. marked 1/4 S 13 B.T.
- 47.60 Ridge abrupt. arcuate over sand stone ledges
- 48.50 Top of ridge bears N.W. and S.E. desc.
- 73.00 Leave 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. 11, 12, 13, and 14, marked on base cap. T 31 N. S 11 in N.W., R 14 E S 12 in N.E. S 13 in S.E. and S 14 in S.W. quadrants.  
Dig pits 18 x 18 x 12 ins. in each sec., 5 1/2 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high. W. of cor.  
Land rolling and hilly.  
Soil sandy and stony 3rd and 4th rate.  
Timber Cedar.

December 7<sup>th</sup> 1910.

- Dec. 14<sup>th</sup> 1910. Ab. 8<sup>h</sup> 25<sup>m</sup> a.m. l.m.l.v. set off 36° 05' N. on the lab. arc. 23° 09' S. on the decl. arc. and determine a meridian with the solar at the cor. of secs. 11, 12, 13 and 14, <sup>above described</sup> thence 1 run, N 89° 55' E, on a random line bet. secs. 12 and 13,  
40.00 Set temp 1/4 sec. cor.  
80.08 Intersect E. bdy. of Twp. 5 lbs. N. of the cor. of secs. 7, 12, 13 and 18, <sup>recently established by me as described in Exterior Book "AS", thence 1 run,</sup> S 89° 57' W, on a true line bet. secs. 12 and 13,

Ascend abrupt rocky S.E. slope over broken land.

2.30 Top of abrupt. ascend. thence ascend gradually.

7.00 Enter scattering cedar timber bears N. and S.

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

40.04 Sub an iron post 3 ft. long, 1 in. in diam. 26 in. in the ground for 1/4 sec. cor. marked out bears cap 1/4 S 12 on N. half and S 13 on S. half. from which.

A cedar 14 ins. in diam. bears N 8 1/4° E. 123 lbs. dist. marked 1/4 S 12 B.T. and

A cedar 10 ins. in diam. bears S 26 1/2° E 115 lbs. dist. marked 1/4 S 13 B.T.

50.70 Dry ravine 20 lbs. wide course north are.

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

57.00 Dry ravine 35 lbs. wide 30 ft. deep. course N 40° E. are.

65.80 Road to Spring. bears N 25° E and S 25° W.

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

80.08 The cor. of secs. 11, 12, 13 and 14, hereinbefore described. Land broken and hilly. Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate. Timber Cedars.

N 60° 01' W. Secs. 11 and 12,

Ascend N.W. slope over rolling sandy land, through sage and greasewood brush undergrowth and much grass.

18.00 Enter scattering cedar timber bears E and W.

39.20 Dry ravine 10 lbs. wide course N.E., are. Level rolling land bears N.E. and S.W. Enter stony hilly. land.

40.00 Sub an iron post 3 ft. long, 1 in. in diam. 26 in. in the ground for 1/4 sec. cor. marked out bears cap. 1/4 S 11 on W. half and S 12 on E. half, from which.

A cedar 10 ins. in diam. bears S 51 1/2° E 100 lbs. dist. marked 1/4 S 12 B.T. and

A cedar 10 ins. in diam. bears S 46 1/4° W 60 lbs. dist. marked 1/4 S 11 B.T.

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

58.00 South edge of canyon 30 ft. deep bears N.W. and S.E.

Chain

- due. into Canyon.
- 59.30 Bottom of Canyon cross dry ravine course N.W. asc. abruptly over cliffs.
- 60.90 Top of ascent on North edge of Canyon bears East and W. continue ascent.
- 62.75 Top of ridge bears E. and W. desc. abruptly over bluff 30 ft. high.
- 67.50 Dry ravine 20 lbs. wide, 50 ft. below top of bluff. Course N 40° E. asc.
- 72.00 Top of ridge bears N.E. and S.W. desc.
- 77.25 The same ravine 20 lbs. wide course west. asc.
- 80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for cor. of sec. 1, 2, 11 and 12, marked as brass cap T<sub>31</sub>N. S<sub>2</sub> in N.W., R<sub>14</sub>E S<sub>1</sub> in N.E. S<sub>12</sub> in S.E. and S<sub>11</sub> in S.W. quadrants. from which.
- A cedar 10 ins. in diam. bears N 57½° E 261 lbs. dist. marked T<sub>31</sub>N. R<sub>14</sub>E S<sub>1</sub> B.T.
- A cedar 6 ins. in diam. bears S 84° E 298 lbs. dist. marked T<sub>31</sub>N. R<sub>14</sub>E S<sub>12</sub> B.T.
- A cedar 7 ins. in diam. bears S 26¼° W 301 lbs. dist. marked T<sub>31</sub>N. R<sub>14</sub>E. S<sub>11</sub> B.T. and
- A cedar 8 ins. in diam. bears N 24¼° W. 268 lbs. dist. marked T<sub>31</sub>N. R<sub>14</sub>E S<sub>2</sub> B.T.
- Land rolling broken and hilly.  
Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.  
Timber Cedar
- NOTE: - At this cor. I set off 23° 11' S. on the decl. arc and at noon observed the sun on the meridian and obtain a reading of 36° 06' N. on the lat. arc.
- 
- 40.00 Sub temp. 1/4 sec. cor.
- 80.12 Dubuich E. ldy, of 3 lbs. S. of the cor. of sec. 1, 6, 7 and 12, <sup>recently established by me as described in Exterior Book "AS"; thence I run,</sup>
- S 89° 56' W, on a true line, bet. sec. 1 and 12, around steep S.E. slope over stony hilly land through scattering cedar timber, sage and greasewood brush, undergrowth and bunch grass.
- 18.00 Top of ridge bears N. and S. desc. steeply.

Subdivision of N<sup>o</sup> 31 N., R 14 E.

Chain

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- 30.24 Dry ravine 20 lbs. wide Course N65° W. acc.
- 31.30 Road to Spring. bears N. and S.
- 32.40 A spring. bears North 500 lbs. dist.
- 40.06 Set an iron post. 3 ft. long 1 in. in diam. 26 ins. in the ground for 1/4 sec. cor. marked on brass cap 1/4 S1 on N. half and S 12 on S. half. from, which.  
A cedar 12 ins. in diam. bears N 18 1/2° E. 202 lbs. dist. marked 1/4 S 1 B.T. and  
A cedar 6 ins. in diam. bears S 13 3/4° E 193 lbs dist. marked 1/4 S 12 B.T.
- 42.00 Top of ridge bears N. and S. desc.
- 59.60 Dry ravine 40 ft. below top of ridge. Course North acc.
- 61.50 Top of ridge bears N. and S. desc.
- 67.25 Dry ravine 10 lbs. wide course north acc.
- 70.00 Top of ridge bears N. and S. desc.
- 80.12 The cor. of secs. 1, 2, 11 and 12, hereinbefore described.  
Land hilly.  
Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.  
Timber cedar.

- 40.00 Set temp. 1/4 sec. cor.
- 80.00 Intersect N. l. by. of N<sup>o</sup> 8 l. S 89° 57' W. of the cor. of sec. 1, 2, 35 and 36, recently established by me as described in Exterior Book "AS"; thence I run,  
S. 0° 02' W. on a true line, bet. sec 1 and 2,  
Descend steep S.E. slope over hilly sandy and stony land through scattering sage and greasewood bush undergrowth and bunch grass.
- 10.60 Dry ravine 15 lbs wide Course N.E. acc.
- 30.00 Top of ridge bears E and W. desc.
- 34.30 Dry ravine Course west. acc.
- 38.00 Top of ridge bears E and W. desc.
- 40.00 Set an iron post. 3 ft. long 1 in. in diam. 26 ins. in the ground for 1/4 sec. cor. marked on brass cap 1/4 S 2 on W. half and S 1 on E. half.  
Raise a mound of stone 2 ft. base, 1/2 ft. high. W. of cor. (It is impracticable)
- 49.00 Dry ravine 35 lbs. wide 8 ft. deep. course N.W. acc.

Lehain

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59.50 Top of ridge bears E. and W. due S. slope. Entire scattering cedar timber bears E and W.

80.00 The cor. of secs 1, 2, 11 and 12, hereinbefore described. Land broken and hilly. Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate. Timber Cedar

Decem ber 14<sup>th</sup> 1910

Decem ber 8<sup>th</sup> 1910, Ab. 8<sup>h</sup> 8<sup>m</sup>. a.m. l.m.l. - Run off 36° 02' N. on the lat. arc. 22° 37' S. on the decl arc. and determine a meridian with the solar ab. the cor. of secs. 2, 3, 34 and 35 on S. side of N<sup>o</sup> 31' recently established by me as described in Exterior Book (AR) Thence I run,

N. 0° 01' W., bet. secs 34 and 35;

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

40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for cor. marked on brass cap. 14 S 34 on W. half and S 35 on E. half.

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

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. R14 E S 26 in N.E. S 35 in S.E. and S 34 in S.W. quadrants.

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

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

N. 89° 59' E. on a random line, bet. secs. 26 and 35,

40.00 Set temp. 1/4 sec. cor.

79.98 Intersect N. and S. line 3 lks. S. of the cor. of secs. 25, 26, 35 and 36, <sup>hereinbefore described</sup> thence I run

S 89° 58' W. on a true line bet. secs. 26 and 35.

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

Sub-division of T<sub>1</sub> 31 N., R 14 E.

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Chain

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39.99 Set an iron post 3 ft. long 1 in. in diam. 26 ins in the ground for  $\frac{1}{4}$  sec. cor. marked on brass cap  $\frac{1}{4}$  S 26 on N. half and S 35 on S. half.

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

79.98 The cor. of secs. 26, 27, 34, and 35, hereinbefore described.

Land rolling.

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

No timber.

N.  $10^{\circ} 01' W.$ , bet. secs. 26 and 27,

Ascend gradually over SW slope, through scattering sage and greasewood bush undergrowth and bunch grass

20.00 Top of sand ridge bears  $N 70^{\circ} W.$  and  $S 70^{\circ} E.$  desc. gradually over N.E. slope.

40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins in the ground for  $\frac{1}{4}$  sec. cor. marked on brass cap.  $\frac{1}{4}$  S 27 on W. half and S 26 on E half

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

Note: - At this cor. set off  $22^{\circ} 40' 2''$  S. on the decl. arc. and at noon observe the sun on the meridian and obtain a reading of  $36^{\circ} 03' 76''$  on the lab. arc.

80.00 Set an iron post 3 ft. long 2 ins in diam. 24 ins in the ground for cor. of secs. 23, 23, 26 and 27, marked on brass cap T 31 N S 22 in N.W., R 14 E S 23 in N.E. S 26 in S.E. and S 27 in S.W. quadrant.

Dig pits 18 x 18 x 12 ins in each sec.  $5\frac{1}{2}$  ft. dish. 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.

N.  $89^{\circ} 58' E.$  on a random line, bet. secs. 23 and 26.

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

79.98 Intersect N. and S. line, at the cor. of secs. 23, 24.

Claims

25 and 26, hereinbefore described, thence 1 run,  
 S 89° 58' W., on a true line, bet. sects. 23 and 26,  
 descend NW. slope over rolling sandy land through  
 sage and greasewood brush undergrowth and  
 bunch grass.

39.99 Set an iron post 3 ft. long 1 in. in diam. 26 ins.  
 in the ground for  $\frac{1}{4}$  sec. cor. marked on brass  
 cap  $\frac{1}{4}$  S 23 on N. half and S 26 on S. half.  
 Dig pits 18x18x12 ins. 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.

79.98 The cor. of sects. 22, 23, 26 and 27, hereinbefore described.  
 Land rolling.  
 Soil sandy 3<sup>rd</sup> rate.  
 No timber

N. 0° 01' W., bet. sects. 22 and 23,  
 over rolling sandy land, through sage and  
 greasewood brush undergrowth and bunch  
 grass.

40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins.  
 in the ground for  $\frac{1}{4}$  sec. cor. marked on brass  
 cap  $\frac{1}{4}$  S 22 on W. half and S 23 on E half.  
 Dig pits 18x18x12 ins N. and S. of post. 3 ft. diam.  
 and raise a mound of earth  $3\frac{1}{2}$  ft. base  $1\frac{1}{2}$  ft. high.  
 W. of cor.

57.00 Top of sand ridge bears N 65° E. and S 65° W. desc.  
 gently over NW. slope.

80.00 Set an iron post 3 ft. long 2 ins. in diam. 24 ins. in  
 the ground for cor. of lines 14, 15, 22 and 23.  
 marked on brass cap T 31 N. S 15 in NW. R 14 E.  
 S 14 in N.E. S 23 in S.E. and S 22 in S.W. quadrant.  
 Dig pits 18x18x12 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 rolling.  
 Soil sandy 3<sup>rd</sup> rate  
 No timber

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

BOOK 2620

- 40.00 Set a true line  $\frac{1}{4}$  sec. cor.
- 80.00 Intersect N and S. line, 4 lks. S. of the cor. of secs. 13, 14, 23, and 24, hereinbefore described, thence 1 run,  $S 89^{\circ} 56' W$ , on a true line, bet. secs. 14 and 23, descend gradually over N.W. slope through scattering sage and greasewood brush undergrowth and bunch grass.
- 40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked on brass cap N $\frac{1}{2}$  S 14 on N half and S 23 on S half.
- Dig pits 18x18x12 ins E and W. of post 3 ft. dia. and raise a mound of earth  $3\frac{1}{2}$  ft. base  $1\frac{1}{2}$  ft. high N. of cor.
- 70.20 Road to Tuba, Arizona bears  $N 60^{\circ} W$ . and  $S 60^{\circ} E$ .
- 80.00 The cor. of secs. 14, 15, 22, and 23, hereinbefore described.
- Land rolling.
- Soil sandy 3<sup>rd</sup> rate.
- No timber
- 
- December 15<sup>th</sup> <sup>1910</sup> At 8<sup>h</sup> 55<sup>m</sup> a.m. L. M. D. set off  $36^{\circ} 04\frac{1}{2}' N$ . on the lat. arc.  $23^{\circ} 13' S$ . on the decl. arc. and determine a meridian with the solar at the cor. of secs. 14, 15, 22, and 23, hereinbefore described, thence 1 run,  $N 0^{\circ} 01' W$ , bet. secs. 14 and 15.
- Descend N.W. slope over rolling sandy land through scattering sage and greasewood brush undergrowth and bunch grass.
- 8.20 Road to Tuba, Arizona bears  $N 60^{\circ} W$ . and  $S 60^{\circ} E$ .
- 17.00 Dry ravine 25 lks. wide 3 ft. deep course with asc gently.
- 28.15 Dry ravine 15 lks. wide 5 ft. deep course S.W.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam 26 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked on brass cap N $\frac{1}{2}$  S 15 on W half. and S 14 on E. half.
- Dig pits 18x18x12 ins N and S. of post 3 ft. dia. and raise a mound of earth  $3\frac{1}{2}$  ft. base  $1\frac{1}{2}$  ft. high W. of cor.
- 78.00 Top of sand ridge bears  $N 70^{\circ} E$ . and  $S 70^{\circ} W$ . desc gradually.
- 80.00 Set an iron post 3 ft. long 2 ins in diam 24 ins



Chain

in the ground for cor. of secs. 10, 11, 14 and 15 marked on brass cap T 31 N. S 10 in N.W., R 14 E. S 11 in N.E. S 14 in S.E. and S 15 in S.W. quadrants. Dig pits 18x18x12 in. in each sec. 5 1/2 ft. dia. and raise a mound of earth 4 ft. base 2 ft. high W. of cor.  
 Land rolling.  
 Soil sandy 3rd rate.  
 No timber

- 40.00 Sub trap 1/4 sec. cor.  
 79.96 Intersect N. and S. line 5 lbs. N. of the cor. of secs. 11, 12, 13, and 14, hereinbefore described, thence I run, S 89° 58' W. on a true line, bet. secs. 11 and 14, Descend N.W. slope over rolling sandy land, through sage and greasewood brush undergrowth and bunch grass.  
 20.20 Dry ravine 30 lbs. wide 5 ft. deep course S 50° W. asc.  
 39.98 Set an iron post 3 ft. long, 1 in. in diam. 26 in. in the ground for 1/4 sec. cor. marked on brass cap S 11 on N. half and S 14 on S. half. Raise a mound of stone 2 ft. base, 1 1/2 ft. high N. of cor. Pits impracticable  
 49.20 Top of sand ridge bears N 20° E. and S 20° W. desc.  
 52.10 Dry ravine 10 lbs. wide course S 20° W. asc.  
 54.00 W. of sand ridge bears N.E. and S.W. desc.  
 79.96 The cor. of secs. 10, 11, 14 and 15, hereinbefore described. Land rolling and hilly. Soil sandy 3rd rate.  
 No timber

N 60° 01' W., bet. secs. 10 and 11, Descend N.W. slope over hilly, sandy land through sage and greasewood brush undergrowth and bunch grass.

- 13.00 Dry ravine 10 lbs. wide course N.W. asc.  
 16.50 Top of sand ridge bears E and W. desc.  
 18.60 Dry ravine 20 ft. below top of ridge course west. asc.  
 25.75 Top of perpendicular bluff 75 ft. high, asc. abruptly.

14 Chain

BOOK 200

- 26.00 Top of bluff bears E and W. desc.
- 34.25 Descend perpendicular bluff 40 ft. high. bears N.E. and S.W.
- 40.00 Set an iron post 3 ft. long 1 in. in diam. 26 in. in the ground for  $\frac{1}{4}$  sec. cor. marked on brass cap.  $\frac{1}{4}$  S 10 on W. half, and S 11 on E. half.  
Raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high. W. of cor. Pits impracticable
- 42.00 Foot of abrupt rocky descent. Leads hilly land bears N.E. and S.W. Enter rolling sandy land.
- 80.00 Set an iron post 3 ft. long 2 in. in diam. 24 in. in the ground for cor. of sec. 2, 3, 10 and 11 marked on brass cap T 31 N. S 3 in N.W., R 14 E S 2 in N.E. S 11 in S.E. and S 10 in S.W. quadrant.  
Dig pits 18 x 18 x 12 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 rolling hilly, and broken.  
Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.  
No timber
- NOTE: At this cor. I set off 23 $\frac{1}{4}$ ' S. on the decl. arc and at noon observed the sun on the meridian, and obtain a reading of 36° 06' N. on the lat. arc.
- 
- N 89° 58' E., on a random line, bet. sec. 2 and 11,  
40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 80.04 Intersect N. and S. line, 5 lvs. S. of the cor. of sec. 1, 2, 11 and 12; hereinbefore described, thence I run,  
S 89° 56' W. on a true line, bet. sec. 2 and 11,  
Descend W. slope over broken stony and hilly land through scattering cedar timber and greasewood brush undergrowth
- 3.40 Dry ravine 15 lvs. wide course N.W. asc. Leads timber bears N.W. and S.E.
- 14.00 Top of sand ridge bears N and S. desc.
- 22.65 Dry ravine 25 ft. below top of ridge course north. do.
- 24.00 Top of sand ridge bears N and S. desc.
- 36.40 Dry ravine 15 lvs. wide course N 25° E. asc.
- 40.02 Set an iron post 3 ft. long 1 in. in diam., 26 in. in the ground for  $\frac{1}{4}$  sec. cor. marked on brass cap.

Chain

43.25  $1/4$  S 2 on N. half and S 11 on S. half.  
 Raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high.  
 No. of cor. Pits impracticable  
 50.50 Top of stony ridge bears N and S. desc.  
 61.50 Dry rocky ravine course N.E. asc.  
 80.04 Top of rocky ridge bears N and S. desc. W. slope  
 over rolling sandy land.  
 The cor. of secs. 2, 3, 10 and 11, hereinbefore described.  
 Land rolling broken and hilly.  
 Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.  
 Timber Cedar.

40.00  $N. 0^{\circ} 01' W.$ , on a random line, bet. secs. 2 and 3,  
 Set temp.  $1/4$  sec. cor.  
 80.16 Intersect N. bdy. of Twp; 8 lks.  $S. 89^{\circ} 57' W.$  the cor. of sec.  
 2, 3, 34 and 35, recently established by me as described in Exterior Book "AS"; thence I run,  
 $S. 0^{\circ} 02' W.$ , on a true line, bet. secs. 2 and 3,  
 ascend N.E. slope over hilly sandy land through  
 scattering cedar timber and greasewood brush  
 undergrowth.  
 3.00 Leave timber bears N.E. and S.W.  
 6.00 Top of sand ridge bears N.W. and S.E. desc.  
 20.85 Dry ravine 10 lks. wide course N.W. asc over rolling land.  
 40.16 Set an iron post 3 ft. long, 1 in. in diam. 26 in. in  
 the ground for  $1/4$  sec. cor. marked on bears Cop  
 $1/4$  S 3 on W. half and S 2 on E. half.  
 Dig pits 18 x 18 x 12 in. N and S. of post. 3 ft. deep  
 and raise a mound of earth  $3\frac{1}{2}$  ft. base  $1\frac{1}{2}$  ft.  
 high W. of cor.  
 80.16 The cor. of secs. 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 Cedar.

December 15<sup>th</sup> 1910.

December 9<sup>th</sup> 1910  
 At 7<sup>h</sup> 53<sup>m</sup> a.m. l.m.t. I set off  
 $36^{\circ} 02'$  N. on the lat. arc.  $22^{\circ} 43'$  S. on the decl. arc.  
 and determine a meridian with the solar alt.  
 the cor. of secs. 3, 4, 33, and 34, on S. bdy. of  
 Twp, recently estab. by me as described in Exterior Book "AR"; thence I run,  
 $N. 0^{\circ} 02' W.$ , bet. secs. 33 and 34.

BOOK 2620

- Ascend South, slope over rolling sandy land, through scattering sage and greasewood, brush undergrowth and bunch grass.
- 30.00 Tops of sand ridges bears E and W. descend gently.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked on brass cap  $\frac{1}{4}$  S 33 on W. half, and S 34 on E. half.  
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 secs. 27, 28, 33 and 34, marked on brass cap T 31 N., S 28 in N.W., R 14 E S 27 in N.E. S 34 in S.E. and S 33 in S.W. quadrants.  
Dig pits 18x18x12 ins in each sec.  $5\frac{1}{2}$  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.  
No timber

- W. 89° 59' E, on a random line, bet. secs. 27 and 34,
- 40.00 Set temp  $\frac{1}{4}$  sec. cor.
- 79.98 Intersect N. and S. line, at the cor. of secs. 26, 27, 34 and 35, hereinbefore described, thence 1 run, S 89° 59' W, on a true line, bet. secs. 27 and 34,  
Descend S. W. slope over rolling sandy land through scattering sage and greasewood brush undergrowth and bunch grass
- 39.99 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked on brass cap  $\frac{1}{4}$  S 27 on N. half and S 34 on S. half.  
Dig pits 18x18x12 ins. E and W. of post 3 ft. dia. and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of cor.
- 79.98 The cor. of secs. 27, 28, 33 and 34, hereinbefore described.  
Land rolling.  
Soil sandy 3<sup>rd</sup> rate.  
No timber

Chain

N. 0° 02' W., 1/4 sec. 27 and 28,

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

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins in the ground for 1/4 sec. cor. marked w brass cap 1/4 S 25° W. half and S 27° W E. half.

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.

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 w brass cap. T 31 N. S 2' in N.W. R 14 E.

S 22 in N.E. S 27 in S.E. and S 28 in S.W. quadrant. Dig pits 18 x 18 x 12 ins. in each sec. 5 1/2 ft. dish. and raise a mound of earth 4 ft. base, 2 ft. high. W. of cor.

Land rolling.  
Soil sandy 3rd rate.  
No timber

N. 89° 59' E., on a random line, 1/4 sec. 22 and 27,

40.00 Set temp 1/4 sec. cor.

80.00 Intersect N and S. line, 5 lks. S. of the cor. of sec. 22, 23, 26 and 27, hereinbefore described, thence 1 run,

S 89° 57' W. on a true line 1/4 sec. 22 and 27.

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

40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins in the ground for 1/4 sec. cor. marked w brass cap 1/4 S 25° W N. half and S 27° W S. half

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

Note: At this cor I set off 22° 46 1/2 S 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.

80.00 The cor. of sec. 21, 22, 27 and 28, hereinbefore described.

Land rolling.  
Soil sandy 3rd rate.

BOOK 2620

No timber

N. 0° 02' W., bet. secs. 21 and 22,

40.00 Over rolling sandy land through scattering sage and greasewood brush undergrowth and bunch grass. See an iron post 3 ft. long 1 in. in diam. 26 in. in the ground for  $\frac{1}{4}$  sec. Cor. marked as brass cap.  $\frac{1}{4}$  S 21 on W. half and S 22 on E. half.

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

80.00 See an iron post 3 ft. long 2 in. in diam. 24 in. in the ground for cor. of secs. 15, 16, 21 and 22. marked as brass cap T 31 N., S 16 in N.W., R 14 E S 15 in N.E., S 22 in S.E. and S 21 in S.W. quadrant.

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

N 89° 57' E. on a random line bet. secs. 15 and 22.

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

80.04 Intersect N. and S. line 3 lvs. N. of the cor. of secs. 14, 15, 22 and 23, hereinbefore described, thence 1 run,

S 89° 58' W., on a true line, bet. secs 15 and 22,

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

40.02 See an iron post 3 ft. long 1 in. in diam. 26 in. in the ground for  $\frac{1}{4}$  sec. Cor. marked as brass cap  $\frac{1}{4}$  S 15 on N. half and S 22. on S. half.

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

80.04 This cor. of secs. 15, 16, 21 and 22, hereinbefore described.

Land rolling.

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

No timber

December 9<sup>th</sup> 1910.

Subdivision of No. 3176. P. 14 E.

Chain

December 16<sup>th</sup> 1910  
At 7<sup>h</sup> 26<sup>m</sup> a.m. l.m. & set off  $36^{\circ} 04\frac{1}{2}'$   
N. on the lat. arc.  $23^{\circ} 15\frac{1}{2}'$  S. on the decl. arc. and  
determine a meridian with the solar at the  
cor. of secs. 15, 16, 21, and 22, hereinbefore described, thence I run,  
 $N. 8^{\circ} 02' W.$ , bet. secs. 15 and 16;

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

11.50 Dry ravine 30 lbs. wide 3 ft. deep course  $N. 65^{\circ} E.$  are  
gradually.

40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins.  
in the ground for  $\frac{1}{4}$  sec. cor. marked on brass cap  
 $N. 4 S 16$  on W. half and  $S 15$  on E. half.

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

46.00 Top of sand ridge 8 ft. above  $\frac{1}{4}$  sec. cor. base  
E and W. desc.

61.64 Old road bears E and W.

64.30 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 secs. 9, 10, 15 and 16. marked  
on brass cap T 31 N. S 9 in N.W., N 14 E. S 10 in N.E. S  
15 in S.E. and S 16 in S.W. quadrants.

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

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

$N. 89^{\circ} 58' E.$ , on a random line, bet. secs. 10 and 15,

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

80.00 Intersect N and S. line 3 lbs. N. of the cor. of secs.  
10, 11, 14, and 15, hereinbefore described, thence I run,

$S 89^{\circ} 59' W.$ , on a true line, bet. secs. 10 and 15,

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

40.00 Set an iron post 3 ft. long 1 in. in diam 26 ins.  
in the ground for  $\frac{1}{4}$  sec. cor. marked on brass  
cap.  $N. 4 S 10$  on N. half and  $S 15$  on S. half

BOOK 2620

Dig pits 18x18x12 ins. E and W. of post. 3 ft. dist. and raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor.

80.00 The cor. of secs. 9, 10, 15, and 16, hereinbefore described.

Land rolling.

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

No timber

N. 0° 2' W., bet. secs. 9 and 10,

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

40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for ¼ sec. cor. marked on brass cap 459 on W. half and 510 on E. half.

Dig pits 18x18x12 ins. N. and S. of post. 3 ft. dist. and raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor.

49.68 Road bet. N 50° W. and S 50° E.

80.00 Set an iron post 3 ft. long 2 in. in diam. 24 ins. in the ground for cor. of secs. 3, 4, 9, and 10 marked on brass cap. T 31 N. S 4 in N.W., R 14 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. 5½ ft. dist. 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

NOTE: At this cor. I set off 23° 17' S. on the decl. arc and at noon observed the sun on the meridian and obtain a reading of 36° 06' N. on the lat. arc.

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

40.00 Set temp. ¼ sec. cor.

80.06 Intersect N. and S. line, 5 lks. N. of the cor. of secs. 2, 3, 10, and 11, hereinbefore described, thence I run,

N 89° 59' W. on a true line, bet. secs. 3 and 10,

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



Chain

- 31.60 Dry ravine 10 lks. wide Course  $N 30^{\circ} W$ . arc.
- 40.03 Set an iron post 3 ft. long, 1 in. in diam. 26 ins in the ground for  $\frac{1}{4}$  sec. cor. marked on brass cap  $N 43^{\circ} 3'$  on N. half, and  $S 10'$  on S. half.  
Dig pits 18x18x12 ins. E and W. of post. 3 ft. dish, and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high. N. of cor.
- 44.00 Top of sand ridge bears N.W. and S.E. descend gentle West slope.
- 80.06 The cor. of secs. 3, 4, 9 and 10, hereinbefore described.  
Land rolling.  
Soil sandy 3<sup>rd</sup> rate.  
No timber

- $N 0^{\circ} 02'$  W. on a random line bet. secs. 3 and 4.
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 79.92 Intersect N. ldy. of Twp. at the cor. of secs. 3, 4, 33 and 34, recently estab. by me as described in Exterior Book "AS," thence I run,  $S 0^{\circ} 02'$  E., on a true line, bet. secs. 3 and 4.  
Descend S.W. slope over rolling sandy land through scattering sage and greasewood brush undergrowth and bunch grass.
- 11.75 Dry ranee 30 lks. wide 20 ft. below cor. Course  $N W$ . arc. gradually.
- 30.14 Road bears  $N 75^{\circ} W$ . and  $S 75^{\circ} E$ . leads to Tuba, Arizona.
- 39.92 Set an iron post 3 ft. long, 1 in. in diam. 26 ins in the ground for  $\frac{1}{4}$  sec. cor. marked on brass cap  $N 45^{\circ} 4'$  on W. half and  $S 3'$  on E. half.  
Dig pits 18x18x12 ins N. and S. of post. 3 ft. dish, and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high W. of cor.
- 79.92 The cor. of secs. 3, 4, 9 and 10, hereinbefore described.  
Land rolling.  
Soil sandy 3<sup>rd</sup> rate.  
No timber

Decem. bet 16<sup>th</sup> 1910

Decem ber 10<sup>th</sup> 1910. Ch. 7<sup>h</sup> 53<sup>m</sup> a.m. l.m.l. Dreb off.  
 $36^{\circ} 02'$  N. on the lat. arc.  $22^{\circ} 49'$  S on the decl. arc.  
and determine a meridian with the solar at the cor. of secs. 4, 5, 32. and 33. on S. ldy. of Twp.

BOOK 2020

recently established by me as described in Exterior Book "AR";

thence Run,

N. 0° 03' W., 1/4 sec. 32, and 33,

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

40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for 1/4 sec. cor. marked out brass cap 1/4 S 32 on W. half and S 33 on E. half.

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

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

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 out brass cap 1/4 S 31 N. S 29 in N.W., R14 E. S 28 in N.E. S 33 in S.E. and S 32 in S.W. quadrants.

Dig pits 18x18x12 ins. in each sec. 5 1/2 ft. 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

N 89° 59' E. on a random line bet. sec. 28 and 33.

40.00 Set temp. 1/4 sec. cor.

79.94 Intersect N. and S. line 3 lks. S. of the cor. of sec. 27, 28, 33 and 34, hereinbefore described, thence Run,

S 89° 58' W. on a true line bet. sec. 28 and 33.

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

33.35 Road to Tuba, Arizona bears N 20° W. and S 20° E.

39.97 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for 1/4 sec. cor. marked out brass cap 1/4 S 28 on N. half and S 33 on S. half.

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

79.94 The cor. of sec. 28, 29, 32, and 33, hereinbefore described.

Land rolling.  
Soil sandy 3<sup>rd</sup> rate.

Chain

No timber

No 03' W. Feb. secs. 28 and 29.

Over rolling sandy land, slopes to the NW. through sage and greasewood brush undergrowth and bunch grass.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 in. in the ground for 1/4 sec. cor. marked on brass cap 1/4 S 29 on W. half and S 28 on E. half.

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

80.00 Set an iron post 3 ft. long 2 in. in diam. 24 in. in the ground for cor. of secs. 20, 21, 28, and 29, marked on brass cap T 31 N. S 20 in NW., R 14 E.

S 21 in NE. S 28 in SE. and S 29 in SW. quadrants. Dig pits 18x18x12 ins. in each sec. 5 1/2 ft. dia. and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.

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

NOTE: - At this cor. I set off 22° 52 1/2' S. on the decl. arc and at noon observe the sun on the meridian and obtain on the lat. arc a reading of 36° 03 1/2' N.

N. 89° 58' E., on a random line, Feb. secs 21 and 28,

40.00 Set temp. 1/4 sec. cor.

79.96 Intersect N. and S. line 5 lbs. N. of the cor. of secs. 21, 22, 27 and 28, hereinbefore described, thence I run, W. on a true line, Feb. secs. 21 and 28, Over rolling sandy land through scattering sage and greasewood brush undergrowth and bunch grass.

39.98 Set an iron post 3 ft. long, 1 in. in diam. 26 in. in the ground for 1/4 sec. cor. marked on brass cap. 1/4 S 21 on N. half and S 28 on S. half. Dig pits 18x18x12 ins. E and W. of post, 3 ft. dia. and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high N. of cor.

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- 53.80 Road to Tuba, Arizona, bears  $N20^{\circ}W$ . and  $S20^{\circ}E$ .
- 79.96 The cor. of secs. 20, 21, 28 and 29, hereinbefore described.  
Land rolling.  
Soil sandy 3<sup>rd</sup> rate.  
No timber
- 
- $N.0^{\circ}03'W$ , bet. secs. 20 and 21,  
Descend  $N.W.$  slope over rolling sandy land through sage and greasewood brush undergrowth and bunch grass.
- 40.00 Set an iron post 3 ft. long 1 in. in diam. 26 in. in the ground for  $\frac{1}{4}$  sec. cor. marked on brass cap  $\frac{1}{4}$   $S20$  on  $W.$  half and  $S21$  on  $E.$  half.  
Dig pits  $18 \times 18 \times 12$  in.  $N.$  and  $S.$  of post 3 ft. dia. and raise a mound of earth  $3\frac{1}{2}$  ft. base  $1\frac{1}{2}$  ft. high,  $W.$  of cor.
- 76.00 Road from Oraibi, Arizona to Tuba, Arizona.  
bears  $N30^{\circ}W$ . and  $S30^{\circ}E$ .
- 80.00 Set an iron post 3 ft. long 2 in. in diam. 24 in. in the ground for cor. of secs. 16, 17, 20 and 21, marked on brass cap T 31 N S 17 in  $N.W.$ , R 14 E S 16 in  $N.E.$ , S 21 in  $S.E.$  and S 20 in  $S.W.$  quadrant.  
Dig pits  $18 \times 18 \times 12$  in. in each sec.  $5\frac{1}{2}$  ft. dia. and raise a mound of earth 4 ft. base, 2 ft. high,  $W.$  of cor.  
Land rolling.  
Soil sandy 3<sup>rd</sup> rate.  
No timber
- 
- East, on a random line, bet. secs. 16 and 21,
- 40.00 Set temp  $\frac{1}{4}$  sec. cor.
- 79.94 Intersect  $N.$  and  $S.$  line, 8 lbs.  $S.$  of the cor. of secs. 15, 16, 21, and 22, hereinbefore described, thence 1 run,  $S89^{\circ}57'W$ , on a true line, bet. secs. 16 and 21,  
Descend  $N.W.$  slope over rolling sandy land through scattering sage and greasewood brush undergrowth and bunch grass.
- 22.75 Dry ravine 20 lbs. wide, 4 ft. deep course  $S.W.$
- 32.35 The same ravine course  $N.W.$
- 39.97 Set an iron post 3 ft. long 1 in. in diam. 26 in. in

Chains

Subdivision of T<sub>31</sub>N., R14E.

25

the ground for  $\frac{1}{4}$  sec. cor. marked on brass cap  $\frac{1}{4}$  S  
16 on N. half and S21 on S. half.

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

79.94

The cor. of secs. 16, 17, 20, and 21, hereinbefore described.

Land rolling.

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

December 10<sup>th</sup> 1910

December 17<sup>th</sup> 1910 At 7<sup>h</sup> 56<sup>m</sup> a.m. l.m.t. & set off.  
 $36^{\circ} 04\frac{1}{2}'$  N. on the lat. arc  $23^{\circ} 17'$  S. on the decl. arc  
and determine a meridian with the solar ah.  
the cor. of secs. 16, 17, 20, and 21, <sup>hereinbefore described</sup> thence S run,  
 $N. 0^{\circ} 03' W.$ , bet. secs. 16 and 17,

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

35.20 Dry ravine 20 lbs. wide 3 ft. deep course N.W. continue  
gradual descent.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26  
ins. in the ground for  $\frac{1}{4}$  sec. cor. marked on  
brass cap  $\frac{1}{4}$  S. 17 on W. half and S16 on E. half.  
Dig pits 18x18x12 ins. N. and S. of post. 3 ft. dia.  
and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high.  
W. of cor.

78.00 Road bears  $N75^{\circ} W.$  and  $S75^{\circ} E.$  Leads to Tuba, Arizona.

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  
on brass cap T31 N. S8 in N.W. R14 E. S9 in N.E.  
S16 in S.E. and S17 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.  
No timber

$N89^{\circ} 57' E.$  on a random line bet. secs. 9 and 16.

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

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80.00 Intersect N. and S. line at the cor. of secs. 9, 10, 15 and 16, hereinbefore described, thence I run,  
S 89° 57' W., on a true line, bet. secs. 9 and 16,  
descend N.W. slope over gently rolling sandy land  
through sage and greasewood bush undergrowth  
and bunch grass.

18.25 Road to Tuba, Arizona bears N 50° W. and  
S 50° E.

40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in  
the ground for  $\frac{1}{4}$  sec. cor. marked on brass cap  $\frac{1}{4}$   
S 9° on N. half and S 16° on S. half.  
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.

80.00 The cor. of secs. 8, 9, 16, and 17, hereinbefore described.  
Land rolling.  
Soil sandy 3<sup>rd</sup> rate.  
No timber

N. 0° 03' W., bet. secs. 8 and 9,

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

40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins.  
in the ground for  $\frac{1}{4}$  sec. cor. marked on brass cap  
 $\frac{1}{4}$  S 8° on W. half and S 9° on E. half.  
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.

54.50 Road to Tuba, Arizona bears N 50° W. and  
S 50° E.

80.00 Set an iron post 3 ft. long 2 ins. in diam. 24 ins.  
in the ground for cor. of secs. 4, 5, 8, and 9, marked  
on brass cap T 31 N. S 5° in N.W., R 14 E. S 4° in N.E.  
S 9° in S.E. and S 8° in S.W. quadrant  
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 rolling.  
Soil sandy 3<sup>rd</sup> rate.  
No timber

Chain

NOTE: - At this cor D set off 23°20' S. on the decl. arc. and at noon observe the sun on the meridian and obtain a reading of 36°06' N on the lat. arc.

- 40.00  $N 89^{\circ} 57' E$ . on a random line bet. sec. 4 and 9.  
 Sep temp.  $\frac{1}{4}$  sec. cor.
- 79.98 Intersect N. and S. line 5 lks. S. of the cor. of sec. 3, 4, 9, and 10, hereinbefore described, thence I run,  $S 89^{\circ} 55' W$ ., on a true line, bet. sec. 4 and 9.  
 Descend N.W. slope over rolling sandy land through scattering sage and greasewood brush undergrowth and bunch grass.
- 39.99 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked on brass cap  $\frac{1}{4}$  S 4 on N. half. and S 9 on S. half.  
 Dig pits 18x18x12 ins E and W. of post 3 ft. diah. and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high. N. of cor.
- 45.35 Road to Tuba, Arizona, bears  $N 55^{\circ} W$ . and  $S 55^{\circ} E$ .
- 79.98 The cor. of sec. 4, 5, 8, and 9, hereinbefore described.  
 Land rolling  
 Soil sandy 3<sup>rd</sup> rate  
 No timber

- 40.00  $N 0^{\circ} 03' W$ . on a random line, bet. sec. 4 and 5.  
 Sep temp.  $\frac{1}{4}$  sec. cor.
- 80.10 Intersect N. ldy. of T<sub>31</sub>N. 5 lks.  $S 89^{\circ} 57' W$  of the cor. of sec. 4, 5, 32, and 33. recently estab. by me as described in Exterior Book "AS", thence I run,  $S 0^{\circ} 01' E$ , on a true line, bet. sec. 4 and 5,  
 Ascend N.W. slope over rolling sandy land through scattering sage and greasewood brush undergrowth and bunch grass
- 7.90 Road bears  $N 70^{\circ} W$ . and  $S 70^{\circ} E$  leads to Tuba, Arizona.
- 26.00 Main road to Tuba, Arizona bears  $N 50^{\circ} W$ . and  $S 50^{\circ} E$ .
- 40.10 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. marked on brass cap  $\frac{1}{4}$  S 5 on W. half and S 4. on E. half.

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80.10 Dig pits 18x18x12 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.  
 The cor. of secs. 4, 5, 8, and 9, hereinbefore described.  
 Land rolling.  
 Soil sandy 3<sup>rd</sup> rate.  
 No timber

December 17<sup>th</sup> 1910.

December 12<sup>th</sup> 1910, Ch. 8<sup>h</sup> 24<sup>m</sup> a.m. l.m.t. & set off.  
 36° 02' N. on the lat. arc, 23° 01 1/2' S. on the decl. arc and determine a meridian with the solar at the cor. of secs. 5, 6, 31, and 32 <sup>on the S. bdy. of the Tp. recently estab. by me as described in Exterior Book "AR," thence I run,</sup>  
 N. 6° 03' W., bet. secs. 31 and 32,  
 Over low rolling sand hills, through scattering sage and greasewood bush undergrowth and bunch grass. Descend.

17.50 Enter dry sand wash 5 ft. deep. 30 lbs. wide course N 5° W. thence in wash.

28.50 Leave wash course N 5° W.

34.00 The same sand wash 20 lbs. wide course N.E.

39.30 The same sand wash course N.W. are. S.W. slope.

40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for the sec. cor. marked on brass cap T 31 on W. half and S 32. on E. half.

Dig pits 18x18x12 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.

70.20 Top of sand ridge bears N 65° E. and S 65° W. decl.

80.00 Set an iron post 3 ft. long 2 ins. in diam. 24 ins. in the ground for cor. of secs. 29, 30, 31 and 32, marked on brass cap T 31 N. S 30 in N.W., R 14 E. S 29 in N.E., S 32 in S.E. and S 31 in S.W. quadrant.

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

Land rolling sand hills

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

No timber

N 89° 59' E on a random line bet. secs 29 and 32.



Chain

- 40.00 Set temp  $\frac{1}{4}$  sec. cor.
- 80.00 Intersect N. and S. line at the cor. of secs. 28, 29, 32, and 33, hereinbefore described, thence I run,  $S 89^{\circ} 59' W$ , on a true line, bet. secs. 29 and 32, Over rolling sandy land through scattering sage and greasewood brush undergrowth and bunch grass. Slopes to NW.
- 20.00 Top of sand ridge bears NW. and SE. desc.
- 40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked on brass cap  $\frac{1}{4} S 29$  on N. half and  $S 32$  on S. half. Dig pits 18 x 18 x 12 ins. E and W. of post 3 ft. dist. and raise a mound of earth 3  $\frac{1}{2}$  ft. base, 1  $\frac{1}{2}$  ft. high N. of cor.
- 80.00 The cor. of secs. 29, 30, 31, and 32, hereinbefore described. Land rolling Soil sandy 3<sup>rd</sup> rate. No timber
- Note: - Clouds obscure the sun at noon today rendering an observation for latitude impossible

- $S 89^{\circ} 59' W$ , on a random line, bet. secs. 30 and 31,
- 40.00 Set temp  $\frac{1}{4}$  sec. cor.
- 78.50 Intersect W. ldy. of Twp; 5 lks. N. of the cor. of secs. 25, 30, 31 and 36 <sup>recently estab. by me as described in Exterior Book "AS";</sup> thence I run,  $N 89^{\circ} 57' E$ , on a true line, bet. secs. 30 and 31, Descend N.E. slope over hilly sandy land through sage and greasewood brush undergrowth and bunch grass.
- 3.90 Dry ravine 10 lks. wide course north asc.
- 8.00 Top of sand ridge bears N. and S. desc.
- 11.00 Dry ravine 20 lks. wide course NW asc.
- 29.50 Top of rocky ridge bears N. and S. desc.
- 38.10 Dry ravine 20 lks. wide course south asc.
- 38.50 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor. marked on brass cap  $\frac{1}{4} S 30$  on N. half and  $S 31$  on S. half. Raise a mound of stone 2 ft. base, 1  $\frac{1}{2}$  ft. high. N. of cor. (Pits impracticable)
- 61.00 Top of sand ridge bears N. and S. desc.
- 75.45 Dry ravine 25 lks. wide course SW asc.

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78.50 The cor. of secs. 29, 30, 31 and 32, hereinbefore described.  
Land hilly.  
Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.  
No timber

$N. 0^{\circ} 03' W.$ , bet. secs 29 and 30,  
Descend NW. slope over hilly sandy and clayey  
land through scattering sage and greasewood  
brush undergrowth and bunch grass.

10.60 Dry ravine 20 lbs. wide course SW. arc.

29.00 Top of sand ridge from NW. and S.E. desc.

40.00 Set low iron post 3 ft. long 1 in. in diam. 26 ins. in  
the ground for  $\frac{1}{4}$  sec. cor. marked on brass cap.  
S 30 on W. half and S 29 on E. half  
Dig pits 18 x 18 x 12 ins N. and S. of post 3 ft. dist.  
and raise a mound of earth  $3\frac{1}{2}$  ft. base  $1\frac{1}{2}$  ft. high.  
W. of cor.

80.00 Set an iron post 3 ft. long 2 ins. in diam. 24  
ins. in the ground for cor. of secs. 19, 20, 29, and  
30, marked on brass cap T 31 N. S 19 in NW. R 14 E  
S 20 in N.E. S 29 in S.E. and S 30 in SW quadrant.  
Dig pits 18 x 18 x 12 ins. in each sec.  $5\frac{1}{2}$  ft. dist.  
and raise a mound of earth 4 ft. base, 2 ft. high.  
W. of cor.  
Land hilly.  
Soil sandy 3<sup>rd</sup> rate.  
No timber

Decem ber 12<sup>th</sup> 1910

Decem ber 13<sup>th</sup> <sup>1910</sup>, Ab. 7<sup>h</sup> 54<sup>m</sup> a.m. Lmt. Drek off  
 $36^{\circ} 03\frac{1}{2}' N.$  on the lat. arc.  $23^{\circ} 03\frac{1}{2}' S.$  on the  
decl. arc. and determine a meridian with  
the solar at the cor. of secs. 19, 20, 29, and 30,  
above described, thence I run,  
 $N. 89^{\circ} 59' E.$ , on a random line, bet. secs. 20 and 29,  
40.00 Set temp.  $\frac{1}{4}$  sec. cor.

80.02 Intersect N. and S. line 5 lbs. S. of the cor. of secs.  
20, 21, 28, and 29, hereinbefore described, thence I run,  
 $S. 89^{\circ} 57' W.$ , on a true line, bet. secs. 20 and 29,  
Overrolling sandy land, through scattering sage  
and greasewood brush undergrowth and bunch.

Chains

grass  
40.01 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked out brass cap  $\frac{1}{4}$  S 20 on N. half and S 29 on S. half. Dig pits 18x18x12 ins. E and W. of post 3 ft. dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base  $1\frac{1}{2}$  ft. high N. of cor.

80.02 The cor. of secs. 19, 20, 29, and 30, hereinbefore described.  
Land rolling  
Soil sandy 3<sup>rd</sup> rate.  
No timber

S 89° 57' W., on a random line, bet. secs. 19 and 30  
40.00 Set temp.  $\frac{1}{4}$  sec. cor.

78.36 Intersect W. ldy. of Np., 8 lks. S. of the cor. of secs 19, 24, 25 and 30, <sup>recently estab. by me as described in Exterior Book "AS", thence I run,</sup>  
Eack, on a true line, bet. secs. 19 and 30;  
Over rolling sandy land through scattering sage and greasewood brush undergrowth and bunch grass.

38.36 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked out brass cap  $\frac{1}{4}$  S 19 on W. half and S 30 on S. half. Dig pits 18x18x12 ins. E and W. of post 3 ft. dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of cor.

78.36 The cor. of secs. 19, 20, 29, and 30, hereinbefore described.  
Land rolling.  
Soil sandy 3<sup>rd</sup> rate.  
No timber

N 90° 03' W., bet. secs. 19 and 20,  
Descend N. slope over rolling sandy land through sage and greasewood brush and bunch grass.

40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked out brass cap  $\frac{1}{4}$  S 19 on W. half and S 20 on E. half. Dig pits 18x18x12 ins. N. and S. of post 3 ft. dist.

BOOK 2620

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 secs. 17, 18, 19, and 20 marked out brass cap. T 31 N. S 18 in N.W. R 14 E. S 17 in N.E. S 20 in S.E. and S 19 in S.W. quadrant. Dig pits 18 x 18 x 12 ins. in each. sec.  $5\frac{1}{2}$  ft. dia. and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.

Land rolling.

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

No timber

Note: At this cor. I ran off  $23^{\circ}07'S$  on the decl. arc and at noon observed the sun on the meridian and obtain a reading of  $36^{\circ}04\frac{1}{2}'N$  on the lat. arc.

40.00 Set temp  $\frac{1}{4}$  sec. cor. N.  $89^{\circ}59'E$ , on a random line, bet. secs. 17 and 20,

80.06 Intersect N. and S. line, 10 lks. N. of the cor.

of secs. 16, 17, 20 and 21, hereinbefore described, thence I run,

N.  $89^{\circ}59'W$ , on a true line, bet. secs. 17 and 20,

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

176- Road from Oraibi, Arizona to Tuba, Arizona, bears  $N 30^{\circ}W$  and  $S 30^{\circ}E$ .

40.03 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked out brass cap  $\frac{1}{4}$  S 17 on N. half and S 20 on S. half. Dig pits 18 x 18 x 12 ins. E and W. of post 3 ft. dia. and raise a mound of earth  $3\frac{1}{2}$  ft. base  $1\frac{1}{2}$  ft. high, N. of cor.

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

Land rolling.

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

No timber

40.00 Set temp  $\frac{1}{4}$  sec. cor. West, on a random line, bet. secs. 18 and 19,

Chain

- 7834 Intersect W. bdy. of Twp. 5 lks. N. of the cor. of  
 Secs 13, 18, 19, and 24 <sup>recently estab. by me as described in</sup>  
 Exterior Book "AS", thence 1 run,  
 N89°58'E, on a true line, bet. secs. 18 and 19,  
 Over rolling sandy land through sage and  
 greasewood brush undergrowth and bunch  
 grass.
- 3834 Set an iron post 3 ft. long 1 in. in diam. 26 ins.  
 in the ground for 1/4 sec. Cor. marked on brass  
 cap 1/4 S 18 on N. half and S 19 on S. half  
 Dig pits 18 x 18 x 12 ins. E and W. of post 3 ft. dish.  
 and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft.  
 high. W. of cor.
- 78.34 The cor. of secs. 17, 18, 19, and 20, hereinbefore described.  
 Land rolling  
 Soil sandy 3<sup>rd</sup> rate.  
 No timber

N. 0° 03' W., bet. secs. 17 and 18;  
 Descend N.W. slope over rolling sandy land  
 through scattering sage and greasewood brush  
 undergrowth and bunch grass.

- 40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins.  
 in the ground for 1/4 sec. cor. marked on brass  
 cap 1/4 S 18 on W. half and S 17 on E half.  
 Dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dish.  
 and raise a mound of earth 3 1/2 ft. base, 1 1/2  
 ft. high. W. of cor.
- 80.00 Set an iron post 3 ft. long 2 ins. in diam. 24  
 ins. in the ground for cor. of secs. 7, 8, 17 and 18  
 marked on brass cap T 31 N. S 7 in N.W. T 14 E S 8  
 in N.E. S 17 in S.E. and S 18 in S.W. quadrants.  
 Dig pits 18 x 18 x 12 ins. in each sec. 5 1/2 ft. dish.  
 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.

Decem ber 13<sup>th</sup> 1910

This 13<sup>th</sup> day of December 1910. I discharge J. Oren W. Pletten, Chairman,  
 No officer authorized to administer oaths other than myself,  
 being available without great inconvenience, delay and expense  
 I administer the required final oaths.

BOOK 2620

Jan L. White  
U.S. Patentman

December 19<sup>th</sup> 1910, at 8<sup>h</sup> 27<sup>m</sup> a.m. l.m.l. I set off  
36° 05 1/2' N. on the lat. arc. 23° 22' S. on the decl. arc  
and determine a meridian with the solar alt.  
the cor. of secs. 7, 8, 17, and 18, above described, thence I run,  
S 89° 59' E., on a random line, bet. secs. 8 and 17,

40.00 Set temp. 1/4 sec. cor.

80.00 Intersect N and S. line, at the cor. of secs. 8, 9,  
16 and 17, hereinbefore described, thence I run,

N. 89° 59' W., on a true line, bet. secs. 8 and 17.

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

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

35.00 Dry ravine 30 lbs. wide, 4 ft. deep course N 55° W.

Tuba

37.10 Road from Oraibi Arizona to ~~Arizona~~ Arizona  
bears N 30° W. and S 30° E.

40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in  
the ground for 1/4 sec. cor. marked on brass cap.  
1/4 S 8 on N. half and S 17 on S. half.

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

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

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

Land rolling.

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

No timber

S 89° 58' W., on a random line, bet. secs. 7 and 18,

40.00 Set temp. 1/4 sec. cor.

78.24 Intersect W. l. bet. of N. 4 lbs. S. of the cor. of secs.  
7, 12, 13 and 18 <sup>recently estab. by me as described in</sup>  
<sub>Exterior Book "A5";</sub> thence I run,

E. on a true line, bet. secs. 7 and 18,

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

38.24 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in  
the ground for 1/4 sec. cor. marked on brass cap.  
1/4 S 7 on N. half and S 18 on S. half.

Cham

35

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

78.24 The cor. of sec. 7, 8, 17, and 18, hereinbefore described.  
Land rolling.  
Soil sandy 3<sup>rd</sup> rate.  
No timber

N. 0° 03' W., bet. sec. 7 and 8,  
Descend N.W. slope over gently rolling sandy land through sage and greasewood brush undergrowth and bunch grass.

32.70 Road leads to Tuba, Arizona, bear N 40° W and S 40° E.

40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins in the ground for 1/4 sec. cor. marked on brass cap 14 S 7 on W. half and S 8 on E. half.

Dig pits 18x18x12 ins N. and S. of post 3 ft. diah. 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. 5, 6, 7 and 8, marked on brass cap T 31 N. S 6 in N.W. R 14 E S 5 in N.E. S 8 in S.E. and S 7 in S.W. quadrants.

Dig pits 18x18x12 ins. in each sec. 5 1/2 ft. diah. 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

Note:- At this cor I set off. 23° 23' 1/2" S. on the decl. arc. and at noon observe the sun on the meridian and obtain a reading of 36° 06' N. on the lat. arc.

S 89° 59' E, on a random line, bet. sec. 5 and 8;

40.00 Set temp. 1/4 sec. cor.

79.98 Intersect N and S line, 5 lks. S. of the cor. of sec. 4, 5, 8 and 9, hereinbefore described, thence 1 run,

S 89° 59' W, on a true line, bet. sec. 5 and 8.

Descend N.W. slope over rolling sandy land through

Subdivision of Tp 31 N., R14 E.

36

chains

BOOK 2620

scattering sage and greasewood brush undergrowth and bunch grass.  
25.90 Road to Tuba, Arizona, bears N 35° W. and S 35° E.

39.99 Set an iron post 3 ft. long 1 in. in diam. 26 in. in the ground for 1/4 sec. cor. marked on brass cap. 14 S 5 on N. half and S 8 on S. half.  
Dig pits 18 x 18 x 12 in. E and W. of post. 3 ft. dia. and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high N. of cor.

72.25 Road from Oraibi Arizona to Tuba, Arizona bears N 30° W. and S 30° E.

79.98 The cor. of secs 5, 6, 7 and 8, hereinbefore described.  
Land rolling.  
Soil sandy 3rd rate.  
No timber

40.00 Set temp 1/4 sec. cor.  
Wh. on a random line, bet. secs. 6 and 7.

78.16 Intersect W. l. of Tp. 8 ltr. N. of the cor. of secs. 1, 6, 7, and 12, <sup>recently estab. by me as described in</sup> Exterior Book "AS", thence 1 run, N. 89° 57' E., on a true line, bet. secs. 6 and 7, ascend N.W. slope over rolling sandy land through sage and greasewood brush undergrowth and bunch grass.

38.16 Set an iron post 3 ft. long 1 in. in diam. 26 in. in the ground for 1/4 sec. cor. marked on brass cap 14 S 6 on N. half, and S 7 on S. half.  
Dig pits 18 x 18 x 12 in. E and W. of post. 3 ft. dia. and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high N. of cor.

53.80 Road to Tuba, Arizona, bears N 40° W and S 40° E.

78.16 The cor. of secs. 5, 6, 7 and 8, hereinbefore described.  
Land rolling.  
Soil sandy 3rd rate.  
No timber

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



Lehain

- 80.06 Intersect N. bdy. of Twp. 5 lks  $N 89^{\circ} 51' E$  of the cor. of sec. 5.6.31 and 32. <sup>recently estab. by me as described in Exterior Book "AS", thence 1 run,</sup>  
 $S 0^{\circ} 05' E$ . on a true line, bet. secs. 5 and 6,  
 arend. NW. slope over rolling sandy land through scattering sage and greasewood brush undergrowth and bunch grass.
- 26.10 Road to Tuba, Arizona, bears  $N 55^{\circ} W$ . and  $S 55^{\circ} E$ .
- 40.06 Set an iron post 3 ft. long 1 in. in diam. 26 ins in the ground for  $\frac{1}{4}$  sec. cor. marked on brass cap  $N 45^{\circ} 6'$  on W half and  $S 5^{\circ} 05' E$ . half.  
 Dig pits 18 x 18 x 12 ins. N and S. of post. 3 ft. dia. and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high W. of cor.
- 59.20 Road from Oraibi Arizona to Tuba, Arizona, bears  $N 30^{\circ} W$ . and  $S 30^{\circ} E$ .
- 80.06 The cor. of sec. 5.6.7 and 8, hereinbefore described.  
 Land rolling.  
 Soil sandy 3<sup>rd</sup> rate.  
 No timber.

December 19<sup>th</sup> 1910.

### General Description

This township comprises a high rolling mesa country cut by deep canyons and ravines in the northeastern and south western parts. with high sand ridges in the southern part. The soil over nearly the entire township can be classed as third rate, and is covered with a good growth of bunch grass, which furnishes fine range for stock.

Scattering cedar timber is found along the ridges in the northeastern part of the township but the trees are too small to be of any value except as fuel.

A spring in section 1. furnished the only water found in the township.

No minerals or stone of any value was found in the township.

BOOK 2620

There are two Navajo Indian families in section 18.

Dec. 19-1910

John L. White  
U.S. Marshal

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

BOOK 2620

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

- T. Y. White, Chainman.
- Oscar W. Fetters, Chainman.
- Ralph C. Sampson, Moundman.
- ~~Moundman.~~
- George B. Seig, 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 14 E.

of the Gila and Salt River Bas. <sup>and</sup> 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

- T. Y. White, Chainman.
- Oscar W. Fetters, Chainman.
- Ralph C. Sampson, Moundman.
- ~~Moundman.~~
- George B. Seig, Axman.
- Nelson Polacca, Axman.
- William R. Carson, Flagman.

Subscribed and sworn to before me this 20<sup>th</sup> day of December, 1910

Van L. White  
U.S. Transitman



BOOK 2620

FINAL OATH OF ~~UNITED STATES DEPUTY SURVEYOR~~ <sup>TRANSITMAN</sup>

I, Van L. White ~~United States Deputy Surveyor~~, <sup>U.S. Transitman</sup>, ~~United States Deputy Surveyor~~, do solemnly swear that, in pursuance of ~~a contract received from the Commissioner of the United States Surveyor General for~~ <sup>Special Instructions from the Commissioner of the</sup> ~~General Land Office~~, bearing date of the ~~2<sup>nd</sup> day of Oct. 1907~~ <sup>2<sup>nd</sup> day of Oct. 1907</sup> and the ~~15<sup>th</sup> day of May, 1908~~ <sup>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~~ <sup>General Land Office</sup>, 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. 14 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~~ <sup>General Land Office</sup> 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~~  
<sup>Transitman</sup>

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

Ayleon R. Taylor  
~~U.S. Commissioner~~  
<sup>at Las Quees, N.M.</sup>



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 No. 31 North, Range No. 14 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.~~ 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~~  
<sup>SURVEYOR-GENERAL OF ARIZONA</sup>

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~~