

Subdivisional  
BOOK-T

2538

MAR. 28. 1911

FIELD NOTES

BOOK 2598

AND RESURVEY  
OF THE SURVEY OF THE

*Subdivision lines of Township No. 29 North  
of Range No. 15 East*

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

*in the Territory of Arizona*

EXECUTED  
AS SURVEYED BY

*Sidney E. Blouh*, United States Examiner of Surveys  
~~Deputy Surveyor~~

*Special Instructions from the Commissioner of the General Land Office*  
Under ~~this Contract No.~~ dated *October 2<sup>nd</sup> 1907 and May 15<sup>th</sup> 1908*

*and Resurvey*  
*Survey commenced April 27<sup>th</sup> 1909*

*and Resurvey*  
*Survey completed May 10<sup>th</sup> 1909*

NAMES AND DUTIES OF ASSISTANTS.

Sam L. White

Compassman

Lafayette Jennings

Chairman

Chas L. Sumway

Chairman

Fred L. Warner

Woundman

Arthur A. Beard

Coxman

Harry Lake May

Flagman

Jay E. Jellich

Flagman

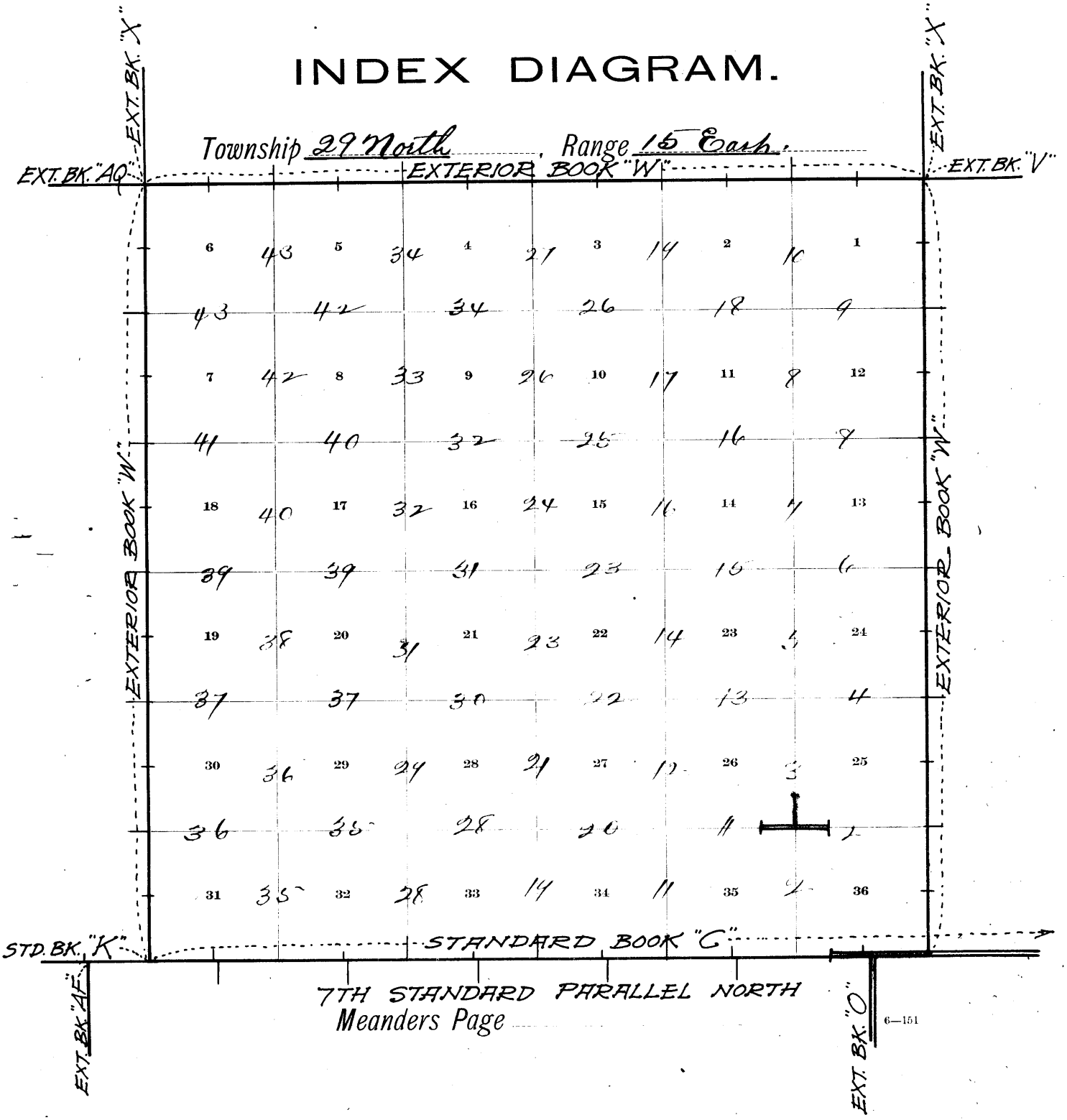
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BOOK 2598

Book No. 2598

# INDEX DIAGRAM.

Township 29 North, Range 15 East.



7TH STANDARD PARALLEL NORTH  
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== RESURVEYED ==

PRELIMINARY OATHS OF ASSISTANTS.

*See Subdivisional Book "M"*

WE, \_\_\_\_\_ and \_\_\_\_\_

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of \_\_\_\_\_

\_\_\_\_\_, Chainman.

\_\_\_\_\_, Chainman.

Subscribed and sworn to before me this \_\_\_\_\_ }  
day of \_\_\_\_\_, 19 \_\_\_\_\_ }



WE, \_\_\_\_\_ and \_\_\_\_\_

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of \_\_\_\_\_

\_\_\_\_\_, Moundman.

\_\_\_\_\_, Moundman.

Subscribed and sworn to before me this \_\_\_\_\_ }  
day of \_\_\_\_\_, 19 \_\_\_\_\_ }



WE, \_\_\_\_\_ and \_\_\_\_\_

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of \_\_\_\_\_

\_\_\_\_\_, Axman.

\_\_\_\_\_, Axman.

Subscribed and sworn to before me this \_\_\_\_\_ }  
day of \_\_\_\_\_, 19 \_\_\_\_\_ }



I, \_\_\_\_\_, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of \_\_\_\_\_

\_\_\_\_\_, Flagman.

Subscribed and sworn to before me this \_\_\_\_\_ }  
day of \_\_\_\_\_, 19 \_\_\_\_\_ }



Chain

10

Survey commenced April 27<sup>th</sup> 1909, and executed with a W<sup>and</sup> S. E. Gurley engineers transit no. 76 with a Barb. solar attachment. The horizontal limb is provided with one double vernier reading to single minutes of arc. the vernier of the latitude and declination arcs reading to 0' 30" of arc.

Examine the adjustments of the transit and correct the level and collimation errors. then to test the solar apparatus by comparing its indications resulting from solar observations made during a.m. and p.m. hours, with a meridian determined by observation on Polaris. I proceed as follows:—  
 At my camp located near the Cor. of Secs. 22, 23, 26 and 27 T 29 N. R 15 E. Latitude  $35^{\circ} 53' 12''$  N. Longitude  $110^{\circ} 43' W$ . I set off  $35^{\circ} 53'$  N. on the lat. arc,  $13^{\circ} 52\frac{1}{2}''$  N. on the decl. arc. and at  $3^h 58^m$  p.m. l.m.t. determine a meridian with the solar, and mark a point thereof by a tack driven in a stake set in the ground 5 Ch. north of my instrument.

April 27<sup>th</sup> 1909.

April 28<sup>th</sup> 1909 At  $5^h 06^m$  a.m. l.m.t. by my watch which is correct local mean time. I observe Polaris at eastern elongation in accordance with instructions in the Manual, and mark the direction thus determined by a tack driven in a stake set in the ground 5 Ch. N. of my instrument.

At  $6^h 45^m$  a.m. l.m.t. Lay off the azimuth of Polaris  $1^{\circ} 27.5'$  to the west and mark the meridian thus determined by a tack driven in the stake already set 5 Ch. N. of my instrument on which the meridian falls. 0.4 ins west of the point determined by the solar.

At  $7^h 00^m$  a.m. l.m.t. I set off  $35^{\circ} 53'$  N. on the lat. arc,  $14^{\circ} 05\frac{1}{2}''$  N. on the decl. arc, and determine a meridian with the solar and mark a point thereof by a tack driven in the stake already set 5 Ch. N. of my instrument, This point falls. 0.3 ins west of the meridian determined by the Polaris observation.

The solar apparatus by p.m. and a.m. observations

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defined positions for meridians, respectively about  
0' 21" East and 0' 15" West of the meridian established  
by the Polar observation, therefore I concluded  
that the adjustments of the instruments are  
satisfactory.

On 9<sup>th</sup> 10<sup>m</sup> a.m. <sup>l.m.t.</sup> I set off  $35^{\circ} 51\frac{1}{2}'$  N. on the lat.  
arc.  $14^{\circ} 06\frac{1}{2}'$  N. on the decl. arc. and determined  
a meridian with the solar at the Stand, Cor.  
of Secs. 35 and 36 on the S. side of Twp. 29 N, R15 E,  
recently estab. by me and described in Standard Book "C"  
Thence I ran

N  $0^{\circ} 01'$  W. bet. secs. 35 and 36.

Ascend 3 slopes over rolling sandy land through sage  
and greasewood brush undergrowth and scattering  
bunch grass.

29.00 Road from Pinal to Oraibi Arizona bear E and W.

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

66.00 Top of sand ridge bear NW. and S.E. decl N.E. slope.

70.50 Dry ravine course S.E. asc. S.W. slope

80.00 Set an iron post 3 ft. long 2 ins. in diam. 24 ins. in  
the ground for <sup>re-established</sup> cor. of secs. 25, 26, 35 and 36. marked  
on brass cap T 29 N, S 26 in NW, N15 E. S 25 in N.E.  
S 36 in S.E. and S 35 in S.W. quadrants.

Raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high W. of  
cor. No trace of original cor. can be found.

A spring bear N  $61\frac{1}{4}^{\circ}$  W 16.00 chs. dist.

The N.E. Cor of stone house bear N  $61^{\circ} 20'$  W 22.50 chs

A stone house bear N  $65^{\circ} 30'$  W 21.75 chs dist.

A stone house bear N  $66^{\circ} 05'$  W 20.00 chs. dist.

Land rolling and hilly.

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

No timber

East on a random line bet. sec. 25 and 36.

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

79.82 Intersect E. side of Twp. 3 bet. N. of the  
cor. of secs. 25, 30, 34 and 36, recently estab. by me

Chains

and described in Exterior Book "W"

Fence Run

N 89° 59' W. on a true line bet. sec 25 and 36.

Ascend N.E. slope of sand ridge over hilly sandy land through sage and greasewood brush undergrowth and bunchgrass.

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

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

28.00 Enter peach orchard bears N.W. and S.E.

34.00 Leave peach orchard bears N.W. and S.E.

39.91 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked on brass cap  $\frac{1}{2}$  S 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. dist. and raise a mound of earth 3 ft. base 1  $\frac{1}{2}$  ft. high.

N. of cor.

No trace of old  $\frac{1}{16}$  sec. cor. can be found.

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

68.00 Dry ravine 100 lbs wide 6 ft. deep course S.E. asc.

75.75 Road from Nuba to Oraibi Ariz. bears N.W. and S.E.

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

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

Land hilly.

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

No timber.

N 0° 01' W. bet. sec 25 and 26, resurveying to 20.00

Ascend S.W. slope of sand ridge bears N.W. and S.E. through sage and greasewood brush undergrowth.

5.00 Road from Nuba to Oraibi Ariz bears N.W. and S.E.

6.00 Top of ridge bears N.W. and S.E. Enter peach orchard bears N.W. and S.E. desc N.E. slope of ridge.

9.50 Dry ravine course S.E. asc. S.W. slope.

14.00 A point 400 lbs. E. of stone house, unoccupied

14.25 Wire fence bears E and W. leave peach orchard bears E and W.

20.00 No trace of old  $\frac{1}{16}$  sec. cor. can be found.  
36.00 Leave hilly land bears E and W. Enter stony mountainous bears E and W., ascend abruptly over S. slope of mesa

40.00 The post for the  $\frac{1}{4}$  sec. cor. fell on a sand stone boulder 14 x 12 x 10 ft. above ground., therefore cut a cross at each cor. point and at

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

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- on brass cap T29 N R15 E. S 26 on W. half. S 25 on E. half.  
W.C.  $\frac{1}{4}$  in S. half.  
Raise a mound of stone 2 ft. base 1  $\frac{1}{2}$  ft. high. W. of cor.  
Pits impracticable
- 50.25 Top of abrupt ascent on point of mesa. Head NE and  
S.W. desc. abruptly over N.W. slope.
- 51.40 Sandstone cliff on N. edge of mesa head NE and SW.
- 75.00 Dry ravine course S.E. ascend abruptly over S.W. slope.
- 80.00 Set an iron post 3 ft. long 2 ins. in diam. 24 in  
the ground for cor. of sec. 23, 24, 25 and 26, marked  
on brass cap. T29 N S 23 in N.W., R15 E S 24 in N.E., S 25  
in S.E. and S 26 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 and mountainous.  
Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.  
Timber patch.  
Mountainous land. 44.00 Cho.
- 
- S 89° 59' E on a random line bet. Secs 24 and 25 -
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 79.88 Intersect E. ldy. of T29 N. 2 lks S. of the cor. of sec. 19, 24,  
25 and 30; recently estab. by me & described in Exterior Book "U"  
Thence down  
West on a true line bet. sec. 24 and 25.  
Descend W. slope of sand ridge over hilly sandy land  
through sage and greasewood brush undergrowth and  
bunch grass.
- 1.00 Dry sand wash 25 lks. wide course S.W. and S.E. slope
- 4.75 Top of sand ridge head N and S. desc. W. slope.
- 27.00 Dry ravine course S.E. and N.E. slope.
- 39.94 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 24  
on N. half and S 25 on S. half.  
Dig pits 18x18x12 ins. East W. of post. 3 ft. dist. and  
raise a mound of earth 3  $\frac{1}{2}$  ft. base 1  $\frac{1}{2}$  ft. high N. of  
cor. -
- 50.00 Top of sand ridge head N and S. desc. W. slope.
- 56.00 Dry ravine course S.E. and steep N.E. slope.
- 65.00 Top of sand ridge head N.W. and S.E. desc. S.W. slope.
- 79.88 The cor. of sec. 23, 24, 25 and 26; heretofore described.



Chains

Land hilly,  
 Soil sands 3<sup>rd</sup> rate.  
 No timber

No. 01 W. bet. sec. 23 and 24

Ascend S. slope over mountainous land. through  
 sage and greasewood bush undergrowth and scattering  
 bunch grass.

3.00 Top of sand spur bears E. and W. thence along E.  
 face of mesa.

8.00 Foot of mesa, bears N.E. and S.W. ascend abruptly  
 over cliffs and ledges.

21.00 Top of abrupt ascent on S edge of mesa, bears  
 mountainous land bears N.E. and S.W., center rolling  
 sandy land and scattering pinon pine and cedar  
 timber bears N.E. and S.W. ascend gently.

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

40.00 Set an iron post. 3ft. long, 1 in. diam. 26 ins. in  
 the ground for  $\frac{1}{4}$  sec. Cor. marked on base exp.  $\frac{1}{4}$  S  
 23 on W. half and S 24 on E half., from which,  
 A cedar 5 ins. in diam. bears N 72 $\frac{1}{2}$ ° E 180 lbs. dia. dia.  
 marked  $\frac{1}{4}$  S 24 B.T.

A cedar 4 ins. in diam. bears S 37 $\frac{1}{2}$ ° W. 154 lbs.  
 dia. dia. marked  $\frac{1}{4}$  S 23 B.T.

60.25 Top of sand stone cliff. 50 ft. high along S. side  
 of canyon bears N.E. and S.W. desc.

64.00 Bottom of canyon bears N.E. asc.

69.75 Top of cliffs 50 ft. high along N. side of canyon bears  
 N.E. and S.W. asc. S. slope of sand ridge.

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

80.00 Set an iron post. 3ft. long, 2 in. diam. 24 ins.  
 in the ground for cor. of sec. 13, 14, 23 and 24  
 marked on base exp. T 29 N S 14 in N.W. R 15 E S  
 13 in N.E. S 24 in S.E. and S 23 in S.W. quadrant.  
 from which.

A cedar 4 ins. in diam., bears S 22 $\frac{1}{2}$ ° E 93 lbs. dia.  
 marked T 29 N, R 15 E S 24 B.T.

A cedar 4 ins. in diam., bears S 10 $\frac{3}{4}$ ° W 157 lbs. dia.  
 marked T 29 N, R 15 E S 23 B.T.

No other trees available

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Raise a mound of stone 2 ft base, 1 1/2 ft high W. of cor  
Pits impracticable.

Land hilly and mountainous.

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

Timber pinon pine and cedar,

Mountainous land. 60.25 Chs.

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

April 28<sup>th</sup> 1909

April 29<sup>th</sup> 1909  
Ch. 7<sup>h</sup> 30<sup>m</sup> a.m. l.m.t. Obs. off. 35° 54' N. on the  
lat arc. 14° 24 1/2' N. on the decl. arc. and determined a  
meridian with the solar at the cor. of secs. 13, 14, 23  
and 24, <sup>heretofore described</sup> Hence D run

East on a random line bet. secs. 13 and 24.

40.00 Set temp 1/4 sec. cor.

79.92 Intersect E. bdy of N. 10 lks. N. of the cor. of secs. 13  
1819. and 24 <sup>recently estab. by me and described in Exterior Book "W"</sup> Hence D run.

N 84° 56' W on a true line bet. secs. 13 and 24.

Over rolling sandy land through scattering sage and  
greasewood brush underneath, and brush grass.

36.00 Begin descent over sand stone ledge along W. edge of  
mead.

39.25 Dry ravine course N.W. arc. N.E. slope.

39.96 Set an iron post. 3 ft. long 1 in. in diam. 26 in. in the ground  
for 1/4 sec. cor. marked as brass cap 4 3/8 in N half and  
3 2/4 on S half.

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

45.00 Foot of sand stone cliff. 20 ft. high. Head N and S.  
ascend abruptly.

46.00 Top of cliff. Head N and S. desc W. slope. over  
mountainous land head N and S.

52.60 Foot of descent in dry sand wash 100 ft. below top  
of cliffs. Course N.E. ascend steeply over E slope

75.90 Top of sand spur head N.E. and S.W. desc

79.92 The cor. of secs 13, 14, 23 and 24, heretofore described.

Land rolling broken and mountainous.

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

No timber

Mountainous land. 33.92 Chs.

Chain

- No 01 W. Feb. sec. 13 and 14. Over stony land
- 0.15 Begin abrupt rocky descent over sand stone ledge  
 20 ft. high toward E and W. over mountainous land
- 2.00 Foot of abrupt rocky descent in dry ravine 50 ft below  
 sec. cor. Course N.E., sand stony land toward N.E. and  
 S.W. ascend steep S.E. slope of spur over sandy land  
 toward N.E. and S.W.
- 4.00 Top of spur toward N.E. and S.W., enter scattering cedar  
 timber toward N.E. and S.W., desc. N.W. slope of spur,
- 13.50 Dry ravine course N.E. asc.
- 15.00 Top of sand spur toward N.E. and S.W., desc
- 40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the  
 ground for  $\frac{1}{4}$  sec. cor. marked on brass cap T 29 N  
 S 14 and S 13 in E. half from which  
 A cedar 4 ins. in diam. toward N 25 $\frac{1}{2}$ ° E 118 lbs. dist. marked  
 1/4 S 13 B.T.
- A cedar 4 ins. in diam. toward S 28 $\frac{1}{4}$ ° W 99 lbs. dist.  
 marked 1/4 S 14 B.T.
- 48.50 Dry ravine 150 lbs. wide 3 ft. deep at foot of steep  
 descent. Course N.E., sand mountainous land toward  
 N.E. and S.W., enter hilly land toward N.E. and S.W.  
 Ascend S.E. slope of sand ridge.
- 57.00 Top of sand ridge toward N.E. and S.W. desc.
- 64.00 Foot of descent in dry ravine course N.E. asc.
- 76.00 Top of sand ridge toward N.E. and S.W. desc 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. 11, 12, 13 and 14, marked  
 on brass cap T 29 N, S 11 in N.W., R 15 E S 12 in N.E. S 13  
 in S.E. and S 14 in S.W. quadrant. from which  
 A cedar 4 ins. in diam. toward S 8 $\frac{1}{2}$ ° E 285 lbs. dist.  
 marked T 29 N, R 15 E. S 13 B.T.
- A cedar 4 ins. in diam. toward S 68 $\frac{3}{4}$ ° W 378 lbs.  
 dist. marked T 29 N, R 15 E S 14 B.T.
- No other trees available.
- Dig pits 24 x 24 x 12 ins. in each sec N.E. and N.W. of  
 post 5 $\frac{1}{2}$  ft. dia. and raise a mound of earth  
 4 ft. base, 2 ft. high to, of cor.
- Land hilly and mountainous.
- Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.
- Timber Fir, pine and cedar.
- Mountainous land 48.50 Ch.

Chauss

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- 40.00  $S 89^{\circ} 56' E$  on a random line bet. sec. 12 and 13  
Set temp.  $\frac{1}{4}$  sec. cor.
- 80.08 Intersect the E. side of Np 8 lks. S of the cor. of sec. 7, 12,  
recently set, by me and described in Exterior Book "W."  
13 and 18,  $\frac{1}{4}$  Section Draw
- $S 89^{\circ} 59' W$  on a true line bet. sec. 12 and 13.  
Over rolling sandy mesal land in cultivated field
- 16.00 A point 10 cts. S. of Indian Village of Hotaville.
- 30.00 Leave cultivated land bear N and S.
- 30.75 West edge of mesal or sand stone cliffs 150 ft high  
bear N.E. and S.W. Leave rolling sandy land bear  
N.E. and S.W. Enter stony mountainous land bear N.E.  
and S.W., descend abrupt W. slope of mesal. Through  
scattering pinion pine and Cedar timber bear N.E. and  
S.W.
- 40.04 Set an iron post 3 ft long 1 in in diam, 26 in. in the  
ground for  $\frac{1}{4}$  sec. cor. marked on bear cap.  $\frac{1}{4}$  S 12  
on N. half and S 13 on S half., from which  
A pinion pine 4 in. in diam bear  $N 12\frac{1}{2}^{\circ} E$  39 lks. dist.  
marked  $\frac{1}{4}$  S 12 B.T.
- A Cedar 6 in. in diam. bear  $S 74\frac{1}{2}^{\circ} E$  21 lks. dist. marked  
 $\frac{1}{4}$  S 13 B.T.
- 67.65 Dry sand wash 40 lks. wide course  $N 10^{\circ} E$  asc ridge
- 69.25 Top of sand ridge bear  $N 20^{\circ} E$  and  $S 20^{\circ} W$ , desc
- 73.50 Dry ravine course N.E. asc. Leave mountainous land  
bear N.E. and S.W., Enter hilly land bear N.E. and  
S.W.
- 80.08 The cor. of sec. 11, 12, 13 and 14, heretofore described.  
Land rolling hilly and mountainous.  
Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.  
Timber pinion pine and Cedar
- NOTE Clouds obscure the sun at noon today, rendering  
an observation for latitude impossible.

- $N 0^{\circ} 01' W$ . bet. sec. 11 and 12.  
Descend N. slope over rolling hilly sandy land  
through scattering pinion pine and Cedar timber  
and Sage brush undergrowth and bunch grass
- 40.00 Set an iron post 3 ft long 1 in in diam 28 in. in  
the ground for  $\frac{1}{4}$  sec. cor. marked on bear cap.  $\frac{1}{4}$   
S 10 W. half and S 12 on E half.  
No trees suitable for bearing trees available

Belains

9

- 57.50 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  
 Dry ravine 30 lbs. wide 4 ft. deep course N.E.
- 60.00 The same ravine course N.W. asc. S.W. slope of ridge.
- 62.00 Top of ridge head N.W. and S.E. desc.
- 70.00 Dry ravine 60 lbs. wide 8 ft. deep, course N.W. asc.
- 77.00 Top of sand ridge head E and W. desc.
- 80.00 Set an iron post 3 ft. long 2 ins. in diam. 2 1/2 ins. in the ground for cor. of Secs 1, 2, 11 and 12, marked out head Cap. T 29 N S 2 in N.W. R 15 E S 1 in N.E. S 12 in S.E. and S 11 in S.W. quadrants.  
 No trees within limits
- Dig pits 18x18x12 ins. in each sec. 5 1/2 ft. dist, and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
- Land hilly.  
 Soil sandy 3<sup>rd</sup> rate.  
 Timber Cedar
- 
- 89° 59' E on a random line bet. Secs 1 and 12  
 40.00 Set tap 1/4 Sec. cor.
- 80.12 Intersect E. ldy. of Tp. 10 lbs. N. of the Cor. of Secs 1, 6, 7 and 12, recently estab. by me & described in Exterior Book "W" Thence S run.
- 89° 55' W. on a true line bet. Secs 1 and 12.  
 Descend N.W. slope over rolling sandy land through sage and greasewood brush undergrowth and bunch grass, and scattering cedar timber
- 5.00 Leave timber head N and S.
- 29.50 Dry ravine 25 lbs. wide 2 ft. deep course N.W. asc N.E. slope
- 39.00 Leave undergrowth head N.W. and S.E. Enter cultivated land head N.W. and S.E.
- 40.06 Set an iron post 3 ft. long 1 in in diam. 26 ins. in the ground for 1/4 Sec. cor. marked out head Cap 1/4 S 1 on N half and S 12 on S. half
- Dig pits 18x18x12 ins. E and W. of post 3 ft. dist and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.
- 42.00 Leave cultivated land. head N.W. 6 lbs and S.E. 8 lbs dist Enter sage brush undergrowth head N.W. and S.E.

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55.00 Top of sand ridge bears N.W. and S.E. desc,  
80.12 The cor. of sec. 1, 2, 11 and 12, hereinbefore described.  
Land rolling.  
Soil sandy. 3<sup>rd</sup> rate.  
Number scattering cedars.

40.00 No° 01' W. on a random line bet. sec. 1 and 2.  
Set temp. 4 sec. cor.

79.94 Intersect N. Ely of Pp. 18 lks. W. of the cor. of  
sec. 1, 2, 35 and 36, recently estab. by me & described in  
Hence Drive Exterior Book "W"

So° 07' W. on a true line bet. sec. 1 and 2.

Ascend gradually N. slope over rolling sandy land  
through sage and greasewood bush undergrowth  
and bunch grass.

15.00 Leave undergrowth bear E and W. Enter cultivated  
land bear E 5 chs and W. 3 chs dist

21.00 Leave cultivated land bear E 5 chs and W 4 chs.  
dist, Enter sage and greasewood bush undergrowth  
bear E and W.

24.00 Top of ridge bear E and W. desc.

38.00 Top of descent in dry ravine Course N.W. Course  
from the south

39.94 The point for the 1/4 sec. cor falls in bottom of ravine  
where natural causes would destroy a cor. therefore  
I continue my line

40.25 Leave ravine Course from S.E. ascend N.E. slope.

41.44 Set a iron post 3 ft. long in diameter. 26 ins in the  
ground for witness cor. to the 1/4 sec. cor. marked  
on brass cap T 29 N 15 E S 2 on W. half S 1 on E  
half and W.C. 1/4 in N. half.

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

79.94 The cor. of sec. 1, 2, 11 and 12, hereinbefore described.  
Land rolling  
Soil sandy 3<sup>rd</sup> rate.  
No timber

April 29<sup>th</sup> 1909

Chains

- April 20<sup>th</sup> 1909 Ck. 7<sup>h</sup> 00<sup>m</sup> a.m. Dept. off 35° 51½' N on  
 the lat. Arc, 14° 43' N. on the decl. arc, and determined  
 a meridian with the solar at the Stand. Cor. of sees.  
 34 and 35 on S. 1 day. of T<sub>1</sub>; recently estab. by me and described  
 Thence Down in Standard Book "C"
- V 0° 01' W. bet. sees. 34 and 35  
 Over hilly sandy and adobe land.  
 7.75 Dry ravine 30 lks. wide 3 ft. deep. course S.W. ascend  
 S.E. slope
- 21.00 Top of sand ridge betw N.E. and S.W. from hilly land  
 betw N.E. and S.W., Enter rolling sandy land covered with  
 sage and greasewood brush and growth betw N.E.  
 and S.W.
- 40.00 Set an iron post 3 ft. long 1 in in diam. 26 ins. in  
 the ground for ¼ sec. cor. marked on brass cap  
 143 34 on W half and 335 on E half, from which  
 A cedar 4 ins. in diam. betw S 67½° E 107 lks. dist  
 marked ¼ S 35 B.T.  
 No other trees available.  
 Dig pits 18 x 18 x 12 ins. N and S. of post 3 ft. dist and  
 raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor
- 48.00 Land rolling and betw N.W. and S.E. descend N.E. slope  
 over hilly land betw N.W. and S.E.
- 50.75 Dry ravine course E. asc.
- 67.00 Top of high sand ridge betw E. and W. desc.
- 72.25 Dry ravine course S.E. ascend S.W. slope
- 76.50 Top of rocky knoll desc.
- 80.00 Set an iron post 3 ft. long 2 ins in diam. 24 ins. in  
 the ground for cor. of sees. 26, 27, 34 and 35 marked on  
 brass cap. T 29 N, S. 27 in N.W., R 15 E S 26 in N.E. S 35 in  
 S.E. S 34 in SW quadrant.  
 Raise a mound of stone 2 ft. base, 1½ ft. high. W. of cor  
 Pits impracticable  
 Land rolling and hilly.  
 Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.  
 No timber

- 40.00 Cash on a random line betw sees 26 and 35 -
- 80.02 Set temp. ¼ sec. cor.  
 Intersect N and S. line 14 lks. S. of the cor. of sees.  
 25, 26, 35 and 36, heretofore described, re-established

BOOK 2598

- Thence I run resurveying to 20.00  
S 89° 54' W. and true line bet. sec. 26 and 35  
Descend S.W. slope of ridge over hilly sandy and stony  
land
- 27.5 - Dry ravine Course S.E. asc.
- 6.00 Top of sand ridge betw NW. and S.E. desc.
- 7.75 Dry ravine Course S.E. ascend.
- 14.25 Road from Pula to Oraibi Ariz betw NW. and S.E.
- 20.00 Top of high sand ridge betw N and S, Enter scattering  
cedar and pinion pine timber betw N and S, - Desc W.  
slope of sand ridge. No trace of old  $\frac{1}{16}$  sec. cor. can be found.
- 36.75 Dry ravine 25 lbs wide Course S. asc. E slope.
- 39.00 Top of sand ridge betw N and S, desc W. slope.
- 40.01 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  
26 on N. half and S 35 on S. half.  
No trees within limits.  
Dig pits 18 x 18 x 12 in. East W. of post 3 ft dist. and  
have a mound of earth  $3\frac{1}{2}$  ft. high,  $1\frac{1}{2}$  ft. high N.  
of cor.
- 47.75 Dry ravine Course S.E. asc.
- 68.00 Top of ridge betw NW. and S.E., Lead timber betw NW.  
and S.E. desc over S.W. slope
- 80.02 The cor. of sec. 26, 27, 34 and 35, heretofore described.  
Land hilly.  
Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.  
Timber Cedar
- 
- N 0° 01' W bet. sec. 26 and 27  
Descend N.W. slope over stony hilly land.
- 8.50 Dry ravine Course E. asc.
- 9.00 Top of ridge betw NW. and S.E. desc N.E. slope
- 10.50 Dry ravine Course S.E. at foot of mesa lead  
hilly land betw N.E. and S.W., Enter stony mountainous  
land betw N.E. and S.W. Ascend abrupt south slope  
of mesa.
- 35.50 Top of ascent on S. edge of mesa betw N.E. and  
S.W. Lead mountainous land betw N.E. and S.W.  
Enter broken hilly land betw 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



Chains

- 1/4 S 27 on W half and S 26 on E half.  
 Raise a mound of stone 2 ft. base 1/2 ft. high. W. of cor.  
 Pits impracticable
- 45.00 North edge of mesa, lead broken hilly land toward  
 N.E. and S.W. enter mountainous land toward N.E.  
 and S.W., descend abruptly N.W. slope of mesa  
 through scattering pine or pine and cedar timber  
 toward 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. 22, 23, 26 and 27,  
 marked on brass cap T 29 N R 15 E S 23  
 in N.E. S 26 in S.E. and S 27 in S.W. quadrants.  
 from which

  - A cedar 6 in. in diam. toward N 32 1/4 ° E 123 lks. dist,  
 marked T 29 N R 15 E S 23 B.T.
  - A cedar 6 in. in diam. toward S 6 ° E 49 lks. dist. marked  
 T 29 N, R 15 E S 26 B.T.
  - A cedar 10 in. in diam. toward S 42 1/2 ° W 88 lks. dist,  
 marked T 29 N R 15 E S 27 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 broken hilly and mountainous.  
 Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.  
 Timber pine or pine and cedar
- Mountainous land 60,000 chs.
- NOTE On this cor. I ran off. 14 45 1/2' N. on the decl.  
 arc. and at 11<sup>h</sup> 57<sup>m</sup> 18<sup>sec</sup> <sup>a.m. l.m.t.</sup> ~~to observe~~ the sun on the  
 meridian and obtain on the lat. arc. a reading  
 of 35° 53' 7",

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- 40.00 Set temp 1/4 sec. cor.
- 79.90 Intersect N. and S. line 14 lks. N. of the cor. of sec.  
 23, 24, 25 and 26, heretofore described,  
 thence I run  
 West on a true line bet. sec. 23 and 26.  
 Ascend abruptly rocky S.E. slope over mountainous  
 land, through sage brush undergrowth.
- 15,25 Top of abrupt ascent on E. edge of mesa toward N.E.  
 and S.W. Lead mountainous land toward N.E. and S.W.

BOOK 2598

- Enter rolling land and scattering pinion pine and cedar timber bears NE and SW.
- 39.96 Set an iron post. 3ft. long 1 in in diam. 26 ins in the ground for 4 sec. Cor. marked on bears Cap 1/4 S 23 on N. half and S 26 on S half, from which a Cedar 4 ins. in diam. bears N 26 1/2 W 62 lks. dist. marked 4 S 23 B.T.  
A Cedar 4 ins. in diam. bears S 11 E 28 lks. dist. marked 4 S 26 B.T.
- 50.75 West edge of mesa, leave rolling land bears N and S. Enter mountainous land bears N and S. descend abrupt rocky W. slope of mesa
- 79.90 The cor. of sees 22, 23, 26 and 27, heretofore described. Land rolling and mountainous. Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate. Timber pinion pine and cedar

N 80° 01' W between sees. 22 and 23.

- Descend N.W. slope over stony mountainous land through scattering pinion pine and cedar timber
- 3.50 Dry ravine course W. ascend steep S. slope
- 10.75 Top of spur bears E and W, desc. N. slope.
- 13.00 Dry ravine course NW. asc. S.W. slope.
- 17.00 Top of spur bears E and W, desc. N. slope.
- 19.50 Dry ravine course NW. ascend steep S.W. slope.
- 38.25 Top of rocky spur bears E and W, desc. N. slope
- 40.00 Set an iron post. 3ft. long 1 in in diam. 26 ins in the ground for 4 sec. Cor. marked on bears Cap 1/4 S 22 on W. half and S 23 on E half, from which a Cedar 4 ins. in diam bears N 30 E 16 lks. dist. marked 4 S 23 B.T.  
A pinion pine 10 ins. in diam. bears S 70 W 113 lks. dist. marked 4 S 22 B.T.
- 40.50 Dry rocky ravine course W. asc. S. slope
- 57.00 Top of sand spur bears NW. and SE. desc. NE. slope.
- 57.50 Dry ravine course NW. asc.
- 62.00 Top of spur bears NW. and SE. desc.
- 68.50 Dry ravine course W. ascend steeply over S.W. slope.
- 80.00 Set an iron post. 3ft. long 2 in. in diam. 24 ins

in the ground for Cor. of secs 14, 15, 22 and 23 -  
 marked on brass cap T<sup>29</sup>N R<sup>15</sup>E S<sup>14</sup> in N.E. S<sup>23</sup> in S.E. and S<sup>22</sup> in S.W. quadrants  
 from which.

A Cedar 4 ins. in diam. bears N<sup>71</sup>°E 46 lks. dist.  
 marked T<sup>29</sup>N R<sup>15</sup>E S<sup>14</sup> B.T.

A Cedar 6 ins. in diam. bears S<sup>51</sup>¼°E 112 lks. dist.  
 marked T<sup>29</sup>N R<sup>15</sup>E S<sup>23</sup> B.T.

A Cedar 5 ins. in diam. bears S<sup>52</sup>¼°W 120 lks. dist.  
 marked T<sup>29</sup>N R<sup>15</sup>E S<sup>22</sup> B.T.

A Cedar 10 ins. in diam. bears N<sup>28</sup>¾°W 73 lks.  
 dist. marked T<sup>29</sup>N R<sup>15</sup>E S<sup>15</sup> B.T.

Land mountainous.  
 Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.  
 Timber pinon pine and cedar.  
 Mountainous land 80.00 Ch.

40.00 Set temp. ¼ sec. cor  
 79.98 Intersect N and S. line 8 lks N. of the cor. of secs 13  
 14 23 and 24, heretofore described.

Thence Drive  
 N<sup>89</sup>°57'W on a true line to sec 14 and 23  
 Ascend N.E. slope on hilly sandy land through  
 scattering pinon pine and cedar timber  
 39.99 Set and drive post. 3 ft. long 1 in diameter 26 ins.  
 in the ground for ¼ sec. cor. marked on brass cap  
 N<sup>43</sup> 14 in N. half and S<sup>23</sup> on S. half. from which.

A Cedar 5 ins. in diam. bears N<sup>42</sup>°E 48 lks. dist.  
 marked ¼ S<sup>14</sup> B.T.

A Cedar 4 ins. in diam bears S<sup>27</sup>¼°W 37 lks.  
 dist. marked ¼ S<sup>23</sup> B.T.

66.50 West edge of mesa, leave rolling land bears  
 N.W. and S.E., Enter stony mountainous  
 land bears N.W. and S.E. Ascend abrupt.  
 W. slope of mesa over cliffs and ledges.

79.98 The cor. of secs 14, 15, 22 and 23, <sup>heretofore</sup> described.  
 Land rolling and mountainous.  
 Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.  
 Timber pinon pine and cedar.  
 Mountainous land 13.48 Ch.

BOOK 2598

April 30<sup>th</sup> 1909

1909  
May 1<sup>st</sup> Ch. 7<sup>h</sup> 15<sup>m</sup> a.m. l.m.t. Set off 35<sup>d</sup> 54' N on the lat.  
arc. 15<sup>d</sup> 01' N on the decl. arc. and determine meridian  
thence D run  
heretofore described,

N 10° 01' W to h. sec. 14 and 15.

Ascend abrupt rocky S.W. slope of mesa over mountainous  
land through scattering pinion pine and cedar timber  
40.00 Set an iron post 3ft long 1 in. in diam 26 ins. in the  
ground for  $\frac{1}{4}$  sec. cor. marked out brass cap  $\frac{1}{4}$  S 15 on  
W. half and S 14 on E half.

No trees available

Run a mound of stone 2ft base 1 1/2 ft high W. of cor  
Pits impracticable.

50.00 Top of ascent on W. edge of mesa, leave mountainous  
land, bear N.W. and S.E., enter rolling mesa land bear  
N.W. and S.E.

66.50 East edge of mesa, leave rolling land bear N.W.  
and S.E. Enter stony mountainous land bear N.W.  
and S.E., descend abruptly over E slope of mesa

80.00 Set an iron post 3ft long 2 in. in diam. 24 in. in  
the ground for cor. of sec. 10, 11, 14 and 15 marked out  
brass cap T 29 N, S 10 in N.W. R 15 E S 11 in N.E. S 14 in  
S.E. and S 15 in S.W. quadrants. From which  
A pinion pine 6 in. in diam. bear N 69<sup>3</sup>/<sub>4</sub>° E 51 lbs. dist.  
marked T 29 N R 15 E S 11 B.T.

A Cedar 4 in. in diam. bear S 49<sup>3</sup>/<sub>4</sub>° E 59 lbs. dist.  
marked T 29 N, R 15 E S 14 B.T.

A pinion pine 4 in. in diam. bear S 38<sup>3</sup>/<sub>4</sub>° W 63 lbs. dist.  
marked T 29 N, R 15 E S 15 B.T.

A Cedar 12 in. in diam. bear N 65° W 36 lbs. dist.  
marked T 29 N, R 15 E S 10 B.T.

Land rolling and mountainous  
Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.  
Timber pinion pine and cedar  
Mountainous land. 63.50 Chs.

40.00 S 89° 57' E on a random line to h. sec. 11 and 14  
Set key  $\frac{1}{4}$  sec. cor.

79.94 Intersect N and S. line 5 lbs. S. of the cor. of sec

Chains

17

11, 12, 13 and 14, heretofore described,  
Thence down

N 89° 59' W, on a true line bet. sec 11 and 14

Over rolling sandy and hilly land through scattering  
pinon pine and cedar timber and scattering sage  
brush and greasewood bush undergrowth.

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

39.97 Set an iron post 3ft. long 1 in in diam 26 ins in  
the ground for 4 sec. cor. marked on brass cap  
1/4 S 11 on N. half and S 14 on S half.

No trees suitable for bearing trees available.

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

41.25 Dry ravine course N.E. asc. S.E. slope of ridge.

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

56.50 Dry ravine course N 10° E. asc.

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

68.50 Foot of descent in dry ravine at foot of mesa course  
N.E. Leave hilly land bears N.E. and S.W., enter  
stony mountainous land bears N.E. and S.W. asc  
steep E. slope

79.94 The cor. of sec. 10, 11, 14 and 15, heretofore described.

Land rolling hilly and mountainous,  
Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.  
Timber pinon pine and cedar  
Mountainous land 11, 44 Ch.

N 0° 01' W bet. sec. 10 and 11.

Ascend S.E. slope of mesa over stony mountainous land  
through scattering pinon pine and cedar timber and  
sage brush undergrowth.

20.50 Top abrupt ascent on E. edge of mesa bears N.E. and  
S.W., leave mountainous land bears N.E. and S.W. enter  
broken stony land bears NW and S.E.

23.00 Leave broken stony land bears N.E. and S.W. enter  
hilly sandy land bears N.E. and S.W. desc. NW.  
slope of mesa.

40.00 Set an iron post 3ft. long 1 in in diam 26 ins in  
the ground for 4 sec. cor. marked on brass cap 1/4  
S 10 on W half and S 11 on E. half from which.

BOOK 2598

- A pinion pine 4 ins. in diam bears East 128 lbs. dist. marked  $\frac{1}{4}$  S 11 B.T.
- A Cedar 8 ins. in diam, bears  $354^{\circ}$  W 122 lbs. dist. marked  $\frac{1}{4}$  S 10 B.T.
- 73.50 Dry runnel Course N.E. ascend steep S.E. slope of spur
- 78.00 Top of sand spur bears N.W. and S.E. desc
- 80.00 Set an iron post 3 ft long, 2 ins. in diam 24 ins. in the ground for cor. of recs; 2, 3, 10 and 11 mhd. on brass cap.  $\mp 29$  N 83 m N.W. R15E S 2 in N.E. S 11 in S.E. and S 10 in S.W. quadrant.
- No trees suitable for bearing trees available.
- Dig pits 18 x 18 x 12 ins in each sec.  $5\frac{1}{2}$  ft dist and raise mound of earth 4 ft base, 2 ft high W. of cor.
- Land broken and mountainous.
- Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rates.
- Timber pinion pine and Cedar.
- Mountainous land, 20.50 chs.
- NOTE At this cor. I set off  $15^{\circ} 04'$  N. on the decl arc and at 11<sup>h</sup> 57<sup>m</sup> am. L.M.T. observed the sun on the meridian and obtain on the lat. arc a reading of  $35^{\circ} 56'$  N.
- 89<sup>o</sup> 59' E on a random line bet. recs 2 and 11.
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 79.88 Intersect N. and S. line 14 lbs. S. of the cor. of recs 1, 2, 11 and 12, heretofore described.
- Thence Drive
- 89<sup>o</sup> 55' W. on a true line bet. recs 2 and 11.
- Descend N.W. slope over rolling sandy land through scattering sage and greasewood brush undergrowth and bunch grass
- 5.00 Leave undergrowth bears N and S. Enter cultivated land bears N. 5 chs and S 6 chs.
- 10.00 Leave cultivated land bears N. 4 chs. and S. 6 chs. enter undergrowth. bears N and S.
- 12.00 Dry runnel Course N.W. asc. N.E. slope
- 39.94 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. 2 m N. half and S 11 on S half.
- Dig pits 18 x 18 x 12 ins each W. 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.

Revised

73.00 Dry ravine 30 lbs wide 3 ft. deep Course N.E. Lead  
Rolling land toward NW and S.E., Enter hilly land toward NW  
and S.E. Covered with scattering scrub cedar timber

79.88 The cor. of secs. 2, 3, 10 and 11, heretofore described.  
Land rolling and hilly  
Soil sandy 3<sup>rd</sup> rate.  
Timber scattering cedar

N<sup>o</sup> 01 W. on a random line bet. secs. 2 and 3.

40.00 Set temp. 1/4 sec. cor.

80.04 Intersect N. ldy of P<sup>1</sup> 10 lbs. W. of the cor. of secs.  
2, 3, 34 and 35, recently estab. by me & described in Exterior Book "W"  
Thence Drun

S<sup>o</sup> 03 W. on a true line bet. secs. 2 and 3.

Around gradually N.W. slope over rolling sandy land  
through sage and greasewood bush undergrowth  
and bunch grass.

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

59.00 Dry ravine 30 lbs wide 3 ft. deep Course N.W., Lead  
Rolling land toward NW and S.E. enter hilly land and  
scattering scrub cedar timber toward NW and S.E.  
Ascend rapidly over N. slope.

80.04 The cor. of secs. 2, 3, 10, and 11, heretofore described.  
Land rolling and hilly.  
Soil sandy 3<sup>rd</sup> rate.  
Timber scattering cedar

May 1<sup>st</sup> 1909

1909  
May 8<sup>th</sup> At 7<sup>h</sup> 00<sup>m</sup> am, D<sup>ist</sup>. off. 35° 57' N, on the  
L<sup>at</sup> arc, 15° 37' N, on the decl. arc, and determined  
meridian with the solar at the Stand Cor. of secs  
33 and 34 on S. ldy of P<sup>1</sup>; recently estab. by me and  
described in Standpa Book "C"  
Thence Drun

N<sup>o</sup> 02' W bet. secs. 33 and 34.

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

Chain

BOOK 2598

- 20.50 Road from Pota Ariz to Orahi head N.W. and S.E.
- 21.00 Enter scattering pine and cedar timber head N.W. and S.E.
- 25.00 Top of sand ridge head N.W. and S.E. desc NE slope.
- 26.00 Dry ravine Course S.E. asc. South slope
- 40.00 Set an iron post. 3ft. long 1 in in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked on brass cap  $\frac{1}{4}$  S 33 on W. half and S 34 on E half. From which.  
A Cedar 5 ins. in diam. head N 15  $\frac{3}{4}$  E 146 lbs. dist. marked  $\frac{1}{4}$  S 34 B.T.  
A Cedar 4 ins. in diam. head S 55  $\frac{3}{4}$  W 171 lbs. dist. marked  $\frac{1}{4}$  S 33 B.T.
- 54.00 Top of sand ridge head E. and W. descend steep N. slope
- 60.25 Dry ravine Course N.W. asc.
- 72.00 Top of adobe ridge head E and W. head hilly land. head E. and W. Enter stony mountainous land head E and W. descend abrupt N. slope of ridge
- 79.00 Dry ravine Course W. ascend steep S. slope of spur
- 80.00 Set an iron post. 3ft. long 2 ins. in diam. 24 ins. in the ground for cor. of sec. 27, 28, 33 and 34 marked on brass cap T 29 N S 28 in NW, N 15 E S 27 in NE, S 34 in SE. and S 33 in S.W. quadrants.  
No trees within limits.  
Raise a mound of stone 2ft. base 11ft. high. W. of cor. (Pits impracticable)  
Land rolling hilly and mountainous.  
Soil sandy adobe and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.  
Pine, fir, juniper, pine and Cedar.  
Mountainous land. 8,000 chs.
- 
- Cart on a random line bet. sec. 27 and 34
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 80.08 Intersect N. and S. line 5 lbs. S. of the cor. of sec 26, 27, 34 and 35, heretofore described,  
Thence Drive  
S 89° 58' W. on a true line bet. sec 27 and 34  
Descend N.W. slope of ridge over hilly land through scattering sage and greasewood brush undergrowth and small grass.
- 2.25 Dry ravine Course S.W. asc. S.E. slope.



Chains

- 5.00 Top of adobe ridge trail head N and S. desc. W. slope
- 8.50 Dry ravine at foot of <sup>course S.E.</sup> mesa, level hilly land trail head N.E. and S.W. enter stony mountainous land trail head N.E. and S.W. ascend abruptly.
- 30.50 Top of abrupt ascent on E. edge of mesa 200ft high, trail head N.E. and S.W. asc. steeply
- 36.00 Top of mesa trail head N.E. and S.W. descend abrupt rocky NW. slope through scattering juniper pine and cedar timber trail head N.E. and S.W.
- 40.04 Set an iron post. 3ft. long 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked out base cap  $\frac{1}{4}$  S 27 on N. half and S 34 on S. half. from which.  
A cedar 5 ins. in diam. trail head N 74° W 102 lbs. dist. marked  $\frac{1}{4}$  S 27 B.T.
- A cedar 6 ins. in diam. trail head S 66  $\frac{3}{4}$ ° W 30 lbs. dist. marked  $\frac{1}{4}$  S 34 B.T.
- 80.08 The cor. of reed 27, 28, 33 and 34, herein before described.  
Land hilly and mountainous,  
Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.  
Timber juniper pine and cedar.  
Mountainous land 71.50 Chv.
- 
- N 002° W top reed. 27 and 28.  
Ascend steep rocky S.W. slope of spur over mountainous land through scattering juniper pine and cedar timber
- 3.00 Top of spur trail head E and W. desc. steep N. slope
- 7.00 Dry ravine course W. asc.
- 12.50 Top of rocky spur trail head E and W. desc. steep N. slope
- 29.50 Dry ravine course N.W. asc.
- 40.00 Set an iron post. 3ft. long 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked out base cap  $\frac{1}{4}$  S 28 on W half and S 27 on E half. from which.  
A cedar 5 ins. in diam. trail head S 35  $\frac{3}{4}$ ° E 170 lbs. dist. marked  $\frac{1}{4}$  S 27 B.T.
- A cedar 6 ins. in diam. trail head S 78  $\frac{1}{2}$ ° W 185 lbs. dist. marked  $\frac{1}{4}$  S. 28 B.T.
- NOTE This cor is on summit of low ridge, trail head NW and S.E. asc.
- 43.70 Dry ravine course W. asc.
- 50.00 Top of spur trail head E and W. desc. N. slope.
- 62.50 Dry ravine 40 lbs. wide course N.W., level timber

Chain

BOOK 2598

Lead Cond. W. As. S. slope of spur  
 66.00 Top of spur lead N.W. and S.E. desc. N.E. slope.  
 80.00 Set an iron post 3 ft. long 2 in. in diam 24 in. in  
 the ground for Cor. of sec. 21, 22, 27 and 28, marked  
 on brass cap T 29 N. S 21 in N.W., R 15 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 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 mountainous,  
 Soil sandy and stony, 3<sup>rd</sup> and 4<sup>th</sup> rate.  
 Timber Pinon pine and Cedar  
 mountainous land 8,000 chs

NOTE At this Cor. Decl. of 15° 40' N, on the decl. arc, and  
 at 11<sup>h</sup> 57<sup>m</sup> am. L.M.C. observed the sun on the meridian  
 the resulting lat. being 35° 53' N,

N 89° 58' E on a random line bet. Secs. 22 and 27,  
 40.00 Set temp. 1/4 sec. Cor.  
 80.18 Intersect N and S. line 3 lks N of the Cor. of sec. 22  
 23, 26, and 27, hereinbefore described,  
 Thence Run  
 S 89° 59' W. on a true line bet. sec. 22 and 27  
 Descend abrupt rocky S.W. slope of spur over mountainous  
 land through scattering pinon pine and cedar timber  
 14.00 Dry ranuel Course N.W. asc. N.E. slope of spur  
 18.50 Top of low sand spur lead N.W. and S.E. desc. S.W.  
 slope.  
 25.50 Dry ranuel Course N.W. asc.  
 28.00 Top of sand spur lead N and S. desc. W slope.  
 39.50 Dry ranuel Course N.W. asc.  
 40.09 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 22 on N. half and S 27 on S half from which  
 A Cedar 6 ins. in diam. lead N 46 3/4 E 7 3 lks. dist.  
 marked 1/4 S 22 B.T.  
 A Cedar 6 ins. in diam lead S 1° E 112 lks dist,  
 marked 1/4 S 27 B.T.  
 56.25 Top of spur lead N.W. and S.E. desc.  
 61.75 Dry ranuel Course N.W. asc.  
 69.00 Top of spur lead N.W. and S.E. desc

Chains

- 72.75 Dry ravine Course N.W. asc.
- 78.00 Top of spur leads N.W. and S.E. desc.
- 80.18 The cor. of sees. 21, 22, 27 and 28, heretofore described.  
 Land mountainous,  
 Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate,  
 Timber pinion pine and cedar  
 Mountainous land 80.18 chs.

N<sup>o</sup> 02' W. bet. sees. 21 and 22.

Descend N.W. slope over mountainous land through scattering cedar timber and sage and greasewood brush undergrowth and bunch grass.

- 10.50 Dry ravine Course W., over mountainous land and timber

- 40.00 Set an iron post 3 ft. long in diameter, 26 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked on base cap  $\frac{1}{2}$  S 21 on W. half and S 22 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.

- 44.00 Top of sand ridge leads E and W. desc. gently over m. slope

- 57.75 Dry ravine 100 lbs. wide Course S.W. ascend gently over E.E. slope

- 80.00 Set an iron post 3 ft. long 2 ins. in diam 24 ins. in the ground for cor. of sees. 15, 16, 21 and 22, marked on base cap T 29 N S 16 in N.W. R 15 E S 15 in N.E. S 22 in S.E. and S 21 in S.W. quadrants -

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

Land rolling and mountainous.

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

Timber scattering cedar.

Mountainous land 10,50 chs.

N 89° 59' E over sandstone line bet. sees. 15 and 22

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

- 80.00 Intersect N and S. line 16 lbs. N. of the cor. of sees. 14, 15, 22 and 23, <sup>heretofore described</sup> hence run

BOOK 2598

- N 89° 54' W. on a true bucket sec. 15 and 22.  
Reseed abrupt rocky W. slope of mesa over mountainous  
land through scattering pinyon pine and cedar timber  
and bunch grass.
- 4.75 Dry ravine course S.W. arc.
- 6.00 Top of spur beam N.E. and S.W. desc.
- 8.75 Dry ravine course S. arc E. slope
- 13.75 Top of sand spur beam N and S. 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 15 on N half and S 22 on S half. From which  
a cedar 6 ins. in diam. beam S 63° W 100 lbs. dist. mkd.  
 $\frac{1}{4}$  S 22 B.T.
- No other trees available.  
Dig pits 18 x 18 x 12 in 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.
- 41.00 Leave mountainous land and timber beam N and S.  
enter rolling land beam N and S.
- 80.00 The cor. of sec. 15, 16, 21 and 22, heretofore described.  
Land rolling, and mountainous.  
Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rates.  
Timber pinyon pine and cedar.

May 3<sup>rd</sup> 1909

- May 4<sup>th</sup> <sup>1909</sup> Ah 7<sup>h</sup> 30<sup>m</sup> a.m. l.m. to  
Drehoff. 35° 54' N. on the  
line are 15° 54'  $\frac{1}{2}$  W. on the decl. arc and determine  
a meridian with the solar sh. the cor. of sec. 15, 16,  
21 and 22 <sup>heretofore described</sup> thence Drive
- N 0° 02' W. beam. sec. 15 and 16.  
Over rolling sandy land through 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. 16 on W  
half and S 15 on E. half.
- Dig pits 18 x 18 x 12 in. 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.
- 79.00 Enter scattering pinyon pine and cedar timber beam  
E and W.
- 80.00 Set an iron post. 3 ft. long 2 in in diam 24 ins. in the  
ground for cor. of sec. 9, 10, 15 and 16. marked on

from Cap T 29 N, S 9 in N.W. R 15 E S 10 in N.E. S 15 in S.E. and S 16 in S.W. quadrants. from which.

A cedar 20 ins. in diam. bears N 30 1/4 E 205 lbs. dist. marked T 29 N R 15 E S 10 B.T.

A cedar 8 ins. in diam. bears S 89 1/4 W 507 lbs. dist. marked T 29 N, R 15 E, S 16 B.T. and.

A cedar 8 ins. in diam. bears N 7 1/2 W 259 lbs. dist. marked T 29 N, R 15 E S 9 B.T. No other trees available

Dig pit 36 x 36 x 12 ins in Sec. 15 5 1/2 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.

Land rolling  
Soil sandy 3rd rate  
Timber juniper pine and Cedar,

40.00 S 89° 54' E on a random line bet. sec 10 and 15  
Set temp. 1/4 sec. cor.

79.96 Intersect N and S. line 12 lbs. S. of the cor. of sec 10  
11.14, and 15; heretofore described,  
Three drum

N 89° 59' W on a true line bet. sec. 10 and 15,  
Ascend E. slope of mesa over stony mountainous  
land through scattering juniper pine and cedar timber

2.75 Top of abrupt escarp on E. edge of mesa 100 ft. above  
cor bears N.E. and S.W. Leave mountainous land  
bears N.E. and S.W. enter rolling land bears N.E.  
and S.W.

7.50 West edge of mesa leave rolling land bears N.E. and  
S.W. Enter mountainous land bears N.E. and S.W., desc  
W. slope of mesa

20.00 Top of abrupt descent in dry ravine <sup>crossed 21,</sup> at foot of mesa  
leave mountainous land bears N.E. and S.W., enter rolling  
land bears N.E. and S.W. asc E slope of sand ridge

22.50 Top of sand ridge bears N and S, desc.

39.98 Set an iron pin 3/4 long in diam. 26 ins. in the  
ground for 1/4 sec cor. marked on brass cap. 1/4 S 10 on N. half  
and S 15 on S. half.

No trees suitable for bearing trees available  
Raise mound of staves 2 ft. base 1 1/2 ft. high N of cor.  
Pits impracticable

43.00 Dry ravine crossed S.W., are.

BOOK 2598

45.50 Top of sand ridge bears N.E. and S.W., Level hilly  
land bears N.E. and S.W., Enter rolling land bears N.E.  
and S.W.

79.96 The cor. of sec. 9, 10, 15 and 16, heretofore described.  
Land rolling hilly and mountainous.  
Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.  
Timber pinon pine and Cedar

N 10° 02' W. Lch. sec. 9 and 10

Creed gradually S.W. slope over rolling sandy land  
through scattering pinon pine and cedar timber and  
sage and greasewood bush undergrowth and bunch  
grass.

36.00 Top of sand ridge bears E and W, desc.

38.50 Dry canal Course W. asc.

40.00 Set an iron post. 3 ft. long 1 in. in diam., 26 ins. in  
the ground for  $\frac{1}{4}$  sec. cor. marked on East cap.  
 $\frac{1}{4}$  S 9° on W. half and S 1° on E half., from which.  
A cedar 6 ins. in diam., bears S 8° E 11 lbs. dist.  
marked  $\frac{1}{4}$  S 10 B.T.

A cedar 10 ins. in diam., bears S 38 $\frac{1}{2}$ ° W 147 lbs.  
dist., marked  $\frac{1}{4}$  S 9 B.T.

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

45.00 Level timber bears N.E. and S.W.

80.00 Set an iron post. 3 ft. long 2 ins. in diam., 24 ins.  
in the ground for cor. of sec. 3, 4, 9 and 10, marked  
on West cap. T 29 N, S 4 in NW. R 15 E S 3 in NE.  
S 10 in S.E. and S 9. 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 3<sup>rd</sup> rate;

Timber pinon pine and Cedar

On this cor. I ran off 15° 57 $\frac{1}{2}$ ' N. on the decl. arc. and  
at 11<sup>h</sup> 56<sup>m</sup> 46<sup>sec</sup>, am. lmt. observed the sun on  
the meridian and obtain on the lch. arc a reading  
of 35° 56' N.

S 89° 59' E on a random line lch. sec. 3 and 10

Chains

- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 79.86 Intersect N and S. line 12 lks. N of the cor. of sec. 2, 3, 10 and 11, heretofore described,  
 Thence Drum  
 N 89° 54' W, on a true line bet. sec. 3 and 10,  
 Ascend E. slope of ridge over sandy land through  
 sage and greasewood brush and bunch grass.
- 6.00 Top of sand ridge betw N and S, desc. gradually N.W.  
 slope
- 15.00 Enter scattering pinion pine and cedar timber betw  
 N and S.
- 39.98 Set an iron post 3 ft. long 1 in. in diam, 26 ins. in the  
 ground for  $\frac{1}{4}$  sec. cor marked on brass cap  $\frac{1}{4}$  S  
 3 on N half and S 10 on S half. From which  
 Cedar 8 ins. in diam betw N 31 $\frac{1}{2}$ ° W 127 lks. dist.  
 marked  $\frac{1}{4}$  S 3 B.T.
- Cedar 6 ins. in diam. betw S 50 $\frac{1}{2}$ ° E 21 lks. dist.  
 marked  $\frac{1}{4}$  S 10 B.T.
- 48.50 Dry ravine course N.W. are
- 55.00 Top of sand ridge betw N.W. and S.E. desc.
- 68.00 Leave timber betw N.E. and S.W.
- 79.86 The cor. of sec 3, 4, 9 and 10, heretofore described.  
 Land hilly  
 Soil sandy 3<sup>rd</sup> rate.  
 Timber pinion pine and cedar

- N 80° 02' W, on a true line bet. sec 3 and 4
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 79.92 Intersect N. line of Twp. 5 lks. E of the cor. of sec 3, 4  
 recently estab. by me and described in Exterior Book "W"  
 33 and 34. Thence Drum
- S 0° 04' E on a true line bet. sec. 3 and 4,  
 Ascend N.W. slope over rolling sandy land.
- 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  $\frac{1}{4}$  S 4  
 on W half and S 3 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.
- 65.00 Dry ravine 60 lks wide 1 ft. deep course N.W. are.  
 N.E. slope.
- 79.92 The cor. of sec 3, 4, 9 and 10, heretofore described.

BOOK 2598

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

May 4<sup>th</sup> 1909

May 5<sup>th</sup> 1909. Ab. 7<sup>h</sup> 15<sup>m</sup> <sup>l.m.t.</sup> a.m. Obs. of  $35^{\circ} 51' 1/2''$  N,  
out the lat. arc,  $16^{\circ} 12'$  N. on the decl. arc and determine  
a meridian with the solar alt. the Stand. Cor. of  
Sec. 32 and 33 on the S. side of  $9/16$  M.C. recently estab. by  
me 1.00 ch. W. and described  
in Standard Book "C"  
Thence Iron, from true point for cor.

W 03' W. Sec. 32 and 33.

Ascend S. slope over hilly sandy and adobe land.  
through scattering sage and greasewood bush  
undergrowth sand bunch grass, and cedar timber.

4.35 Top of adobe ridge bears E and W. desc. steeply over  
N. slope.

7.00 Foot of steep descent desc. gradually,

38.75 Dry ravine Course S.E. arc.

40.00 Set an iron fork. 3ft. long 1 in in diam. 26 in. in  
the ground for  $1/4$  sec. cor. marked on brass cap  $1/4$   
S 32 on W half and S 33 on E half. from which.  
Cedar 8 in. in diam bears S  $42 1/4^{\circ}$  E 70 lbs. dist.  
marked  $1/4$  S. 33 B.T.

Cedar 6 in. in diam, bears S  $23 1/2^{\circ}$  W 225 lbs dist.  
marked  $1/4$  S 32 B.T.

52.00 Top of sand ridge bears N.E. and S.W. desc. N.W.  
slope, over rolling sandy land bears N.E. and S.W.

65.00 Cedar timber bears N.E. and S.W.

80.00 Set an iron fork. 3ft. long 2 in. in diam. 24 in.  
in the ground for cor. of sec. 28 29 32 and 33.  
marked on brass cap T 29 N 3 29 in N.W. R 15 8 28  
in N.E. S 33 in S.E. and S 32 in S.W. quadrants.  
Dig pits 18 x 18 x 12 in. in each. Rec. 5 1/2 ft. dia.  
and raise a mound of earth 4 ft. base 2 ft.  
high. W. of cor.

Land rolling and hilly.  
Soil sandy and adobe 3<sup>rd</sup> rate.  
Timber pinon pine and cedar.

East on a random line Sec. 28 and 33.

40.00 Set steep  $1/4$  sec. cor.



- 80.00 Intersect N and S. line at the cor. of secs. 27, 28, 33 and 34 <sup>herebefore described</sup> fence & run West on true line bet. secs 28 and 33  
Over hilly sandy land through sage and greasewood bush undergrowth and bunch grass.
- 13.75 Dry ravine course N.W. Enter scattering pinon pine and Cedar timber bears N and S. asc E slope of ridge
- 20.00 Top of sand ridge bears N.W. and S.E. desc on S.W. slope.
- 24.00 Dry ravine course N.W. asc.
- 26.00 Top of sand ridge bears N.W. and S.E. desc. gradually
- 28.75 Road from Nuba to Oraibi Ariz bears N.W. and S.E.
- 39.50 Road desc in depression bears N.W. and S.E. drains N.W. asc.
- 40.00 Set an iron post 3 ft. long 1 in in diam 26 ins in the ground for  $\frac{1}{4}$  sec. cor. marked on brass cap  $\frac{1}{4}$  S 28 on N. half and S 33 on S. half, from which. A Cedar 8 ins. in diam bears N 65  $\frac{3}{4}$ ° E 85 lbs. dist. marked  $\frac{1}{4}$  S 28 B.T.  
A Cedar 8 ins. in diam bears S 16  $\frac{1}{2}$ ° E 34 lbs. dist. marked  $\frac{1}{4}$  S 33 B.T.
- 41.50 Top of sand ridge bears N.W. and S.E. desc.
- 58.00 Dry ravine course N. asc.
- 60.75 Top of low sand ridge bears N. and S. desc W. slope
- 80.00 The cor. of secs 28, 29, 32 and 33, herebefore described.  
Land hilly  
Soil sandy 3<sup>rd</sup> rate.  
Number pinon pine and Cedar

N 0° 03' W. bet. secs. 28 and 29.

Descend N.W. slope over rolling and hilly sandy land through scattering pinon pine and Cedar timber and 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 29 on W. half and S 28 on E. half.

No trees within limits.

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

- 46.75 Road from Nuba to Oraibi Ariz bears N.W. and S.E. desc

Behavio

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timber trees N.W. and S.E.  
 50.50 Dry sand wash 75 lbs wide 20 ft. deep course N.W. cor  
 54.50 Sand ridge from NW and S.E. desc.  
 58.00 Dry ravine Course W. asc.  
 74.50 Top of ridge from East W. desc. N slope.  
 76.00 Dry sand wash 100 lbs. wide 20 ft. deep course W. asc.  
 80.00 Set iron post 3 ft. long 2 ins. in diam. 24 ins in the  
 ground for cor of recs. 20, 21, 28 and 29. marked out  
 from Cap T 29 N. S 20 in N.W. R 15 E S 21 in N.E. S 28 in S.E.  
 and S 29 in S.W. quadrants.  
 Dig pits 18 x 18 x 12 ins in each rec. 6 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.  
 Timber pine and cedar  
 At this cor. Set of f. 16 1/4 14 1/2 N on the decl. arc and  
 at 11<sup>h</sup> 56<sup>m</sup> 38<sup>sec</sup> a.m. Sun. observe the sun on the  
 meridian, and obtain on the lat. arc a reading  
 of 35° 53' N.

Establish a random line bet. recs. 21 and 28.  
 40.00 Set temp 1/4 sec. cor.  
 79.88 Intersect N and S line at the cor. of recs. 21, 27, 27  
 and 28, <sup>hazily described</sup> hence from  
 West on a true line bet. recs 21 and 28.  
 Descend gently over west slope over rolling sandy land  
 through scattering sage and greasewood bush  
 undergrowth and bunch grass.  
 39.94 Set iron post 3 ft. long 2 ins in diam. 26 ins in  
 the ground for 1/4 sec. cor. marked out brass cap, 1/4  
 S 21 on N. half and S 28 on S. half.  
 Dig pits 18 x 18 x 12 ins. East W. of post. 3 ft. dia.  
 and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high.  
 N. of cor.  
 66.76 Dry sand wash in bend from S.E. to S.W.  
 79.88 The cor. of recs. 20, 21, 28 and 29, here before described.  
 Land rolling  
 Soil sandy 3<sup>rd</sup> rate.  
 No timber

chain

No. 03 W. Feb. Dec. 20 and 21

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

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

25.00 Dry rocky sand course S.W. asc

33.00 Top of sand ridge bears N.E. and S.W. land rolling land bears N.E. and S.W. Enter level land bears N.E. and S.W.

40.00 Set an iron post 3 ft. long 1 in in diam, 26 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked on brass cap  $\frac{1}{4}$  S 20 on W half and S 21 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 ins in diam. 24 ins in the ground for cor. of secs. 16, 17, 20 and 21 marked on brass cap T 29 N S 17 in NW T 15 E S 16

in N.E. S 21 in S.E. and S 20 in S.W. quadrants. Dig pits 18x18x12 ins. in each sec 5  $\frac{1}{2}$  ft. dist and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.

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

East on a random line bet. Dec. 16 and 21.

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

79.92 Intersect N and S. line at the cor. of secs. 15, 16, 21 and 22, <sup>heretofore described</sup> Thence Drive

West on a true line bet. Dec. 16 and 21

Descend gently over W. slope through scattering sage and greasewood brush undergrowth and bunch grass

39.96 Set an iron post 3 ft. long 1 in in diam 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor. marked on brass cap  $\frac{1}{4}$  S 16 on N. half and S 21 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

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

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

BOOK 2598

No. Number

May 5<sup>th</sup> 1909

This 5<sup>th</sup> day of May 1909, I discharge Harry Lake May, Magmah, No officer authorized to administer oaths, other than myself, being available, without great inconvenience, delay and expense, I administer the required final oaths

Sidney E. Blount  
U.S. Examiner of Surveys

May 6<sup>th</sup> 1909  
Ch. 8<sup>h</sup> 00m am, 2. mt. Deb of. 35° 54' N and the  
lat arc. 16° 29' N, on the decl. arc. and determine  
a meridian with the solar on the cor. of secs.  
16, 17, 20, and 21<sup>h</sup>. <sup>heretofore described</sup> <sup>Merced</sup> Drum  
N 0° 03' W. bet. secs. 16 and 17.

40.00 Over level and rolling sandy land through scattering  
sage and greasewood undergrowth and bunch grass  
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 17 on W half and S 16 on E half.

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

80.00 Set an iron post. 3 ft. long 2 in. in diam, 24  
in. in the ground for cor. of secs. 8, 9, 16 and 17  
marked on brass cap + 29 N 38 in N.W. R 15 E 89  
in N.E. S 16 in S.E. and S 17 in S.W. quadrants.

Dig pits 18 x 18 x 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 level and rolling.  
Soil sandy 3<sup>rd</sup> rate.  
No timber

40.00 Cash on a random line bet. secs. 9 and 16.  
Set temp.  $\frac{1}{4}$  sec. cor.

80.00 Datus bet N and S. line on the cor. of secs. 9, 10, 16  
and 16<sup>h</sup>. <sup>heretofore described</sup> <sup>Merced</sup> Drum  
W. on a true line bet. secs. 9 and 16.

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

6.00 Leave timber line N and S.

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.  
 $\frac{1}{4}$  8.7 on N. half and S 16 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

80.00 The cor. of secs. 8, 9, 16 and 17, heretofore described.

Land rolling  
Soil sandy 3<sup>rd</sup> rate  
Timber pine and cedar

No 03' W. Sec. 8 and 9,

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

15.50 Dry ravine 15 lbs. wide 2 ft. deep course S.W.

40.00 Set an iron post. 3 ft. long 1 in. in diam. 26 ins. in  
the ground for  $\frac{1}{4}$  sec. Cor. marked on brass cap.  
 $\frac{1}{4}$  8.8 on W. half and S 9. 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 4, 5, 8 and 9,

marked on brass cap T 29 N 85 in NW. R 15 E S 4  
in N.E. S 9 in S.E. and S 8 in S.W. quadrant.

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

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

At this cor. S. alt. off.  $16^{\circ} 31\frac{1}{2}'$  N. on the decl arc  
and at 11<sup>h</sup> 56<sup>m</sup> 32<sup>sec</sup> am. l.m.l. observe the sun  
on the meridian the resulting lat. being  $35^{\circ} 56' N$

BOOK 2598

East on a random line bet. sec. 4 and 9,  
40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
80.02 Intersect N. end S. line 3 lks. N. of the cor. of sec.  
3, 4, 9 and 10, <sup>heretofore described</sup> thence S. run  
N 89° 59' W. on a true line bet. sec. 4 and 9,  
Descent gently over NW. slope over rolling sandy  
land, through sage and greasewood bush  
undergrowth and bunch grass  
40.01 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.  
1434 on N. half and 89 on S. half.  
Dig pits 18 x 18 x 12 in. 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  
W. of  
Cor.  
42.00 Begin rapid descent.  
44.00 Foot of rapid descent. desc. gently.  
80.02 The cor. of sec. 4, 5, 8 and 9, heretofore described.  
Land rolling.  
Soil sandy 3<sup>rd</sup> rate.  
No timber.

N 0° 03' W. on a random line bet. sec. 4 and 5  
40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
79.88 Intersect N. end of N. 2 lks. E of the cor. of sec.  
4, 5, 32 and 33, <sup>recently established and described in Exterior Book "W"</sup> thence S. run  
S 0° 04' E. on a true line bet. sec. 4 and 5  
Ascend N. slope over rolling sandy land through  
sage and greasewood bush undergrowth and  
bunch grass.  
20.00 Top of low sand ridge toward E and W. desc. over  
S. slope  
39.88 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 435 on W. half and 84 on E. half  
Dig pits 18 x 18 x 12 in. 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.  
75.00 Road bears NE and S. W.  
79.88 The cor. of sec. 4, 5, 8 and 9, heretofore described.  
Land rolling.  
Soil sandy 3<sup>rd</sup> rate.

November

May 6<sup>th</sup> 1909

1909  
May 7<sup>th</sup> At 7<sup>h</sup> 30<sup>m</sup> a.m. l.m.t. set off 35° 51 1/2' from the lch. arc 16° 46' N. on the decl. arc and determined a meridian with the solar on the stand cor. of sees. 31 and 32 on the S. lch. of Tp. recently estab. by me & described in these *Drum* Standard Book "C"

N 0° 03' W. lch. sees. 31 and 32

Descend N.E. slope over hilly land

- 5.50 Dry ravine Course N.W. desc. S.W. slope of ridge
- 15.00 Top of ridge beam N.W. and S.E. desc.
- 40.00 Set an iron post 3ft. long 1 in in diam. 26 ins in the ground for cor. marked on brass cap 331 on W half and S 32 on E half.

Raise a mound of stone 2 ft base 1 1/2 ft high W. of cor. Pits impracticable.

- 40.50 Dry ravine 20 lbs. wide Course N.W. asc. steep S.W. slope
- 53.00 Top of ridge beam N.W. and S.E. desc N.E. slope.

- 80.00 Set an iron post 3ft. long 2 ins. in diam. 24 ins. in the ground for cor. of sees. 29, 30, 31 and 32, marked on brass cap T 29 N 3. 30 in N.W. N 15 E 32 9 in N.E. S 32 in S.E. and S 31 in S.W. quadrants

Dig pits 18 x 18 x 12 ins. in each see. 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 adds 3<sup>rd</sup> rate.

November

East on a random line lch. sees. 29 and 32.

- 40.00 Set temp 1/4 see. cor.
- 74.84 Intersect rand. S. line 6 lks. N. of the cor. of sees. 28 29, 32. and 33 <sup>heretofore described</sup> These *Drum*

N 89° 58' W. on a true line lch. sees. 29 and 32.

Descend N.W. slope over hilly sandy land through sage and greasewood brush, undergrowth and scattering bunchgrass

- 15.50 Dry ravine Course N. asc
- 21.26 Top of sand ridge beam N and S. desc. W. slope.
- 24.76 Dry ravine Course N. asc.
- 27.75 Top of sand ridge beam N and S. desc.

BOOK 2598

39.72 Set an iron post 3 ft. long 1 in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked on brass cap  $\frac{1}{4}$  S 29 on W. half and S 32 on E. half.

Raise a mound of stone 3 ft. base,  $1\frac{1}{2}$  ft. high N. of cor.  
Pits impracticable

79.84 The cor. of secs. 29, 30, 31 and 32, heretofore described.

Land lully.

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

No timber

West on a random line bet. secs 30 and 31

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

79.88 Intersect W. ldy. of Tp 11 lks. N. of the cor. of secs. 29, 30, 31 and 32, recently established by me and described in Exterior Book "W."

Thence Run

N 89° 55' E on a true line bet. secs 30 and 31

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

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

79.88 The cor. of secs. 29, 30, 31 and 32; heretofore described.

Land rolling.

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

No timber

N 0° 03' W. bet. secs. 29 and 30.

Over rolling sandy land sloped to N.W. 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 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. dia. and raise a mound of earth  $3\frac{1}{2}$  ft. base  $1\frac{1}{2}$  ft. high W. of cor.

At this cor. set off  $16^{\circ} 48\frac{1}{2}'$  N. on the decl. arc and at



11<sup>h</sup> 56<sup>1</sup>/<sub>2</sub><sup>nd</sup> am. l.m.c. observed the sun on the meridian  
the resulting latitude being 35° 53' N.  
80.00 Set an iron post 3 ft. long 2 ins. in diam. 24 ins. in  
the ground for cor. of sec. 19, 20, 29 and 30. marked  
on brass cap T 29 N. S 19 in N.W. R 15 E S 20 in N.E.  
S 29 in S.E. and S 30 in S.W. quadrants.  
Dig pits 18x18x12 ins. in each sec. 5<sup>1</sup>/<sub>2</sub> 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

S 89° 58' E on a random line bet. sec. 20 and 29,  
40.00 Set temp. 1/4 sec. cor.  
79.82 Intersect N and S. line 5 fms N. of the cor. of sec. 20  
21, 28 and 29, <sup>herein before described</sup> Thence S run  
N 89° 56' W. on a true line bet. sec. 20 and 29,  
Descend N.W. slope over rolling sandy land through  
sage and greasewood bush undergrowth and bunch  
grass  
22.50 Right bank of sand wash (dry) 20 ft. high toward N.W.  
and S.E.  
34.75 Left bank of Wash. toward N.W. and S.E.  
39.91 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 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<sup>1</sup>/<sub>2</sub> ft. base 1<sup>1</sup>/<sub>2</sub> ft. high.  
N. of cor.  
47.75 Road from Naba to Oraib's Ariz. toward N.W. and S.E.  
79.82 The cor. of sec. 19, 20, 29 and 30, herein before described.  
Land rolling.  
Soil sandy 3<sup>rd</sup> rate.  
No timber

S 89° 55' W. on a random line bet. sec. 19 and 30.  
40.00 Set temp. 1/4 sec. cor.  
79.80 Intersect W. ldy. of Twp. at the cor. of sec. 19, 24,  
<sup>recently estab. by me and described in Exterior Book "W"</sup>  
25 and 30. Thence S run;

Chain

N 74° 55' E on a true line bet. sec 19 and 20

BOOK 2593

- 39.80 Over rolling sandy land through scattering sage and greasewood bush undergrowth and bunch grass.  
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 48 19 on N. half and S 20 on S. half.  
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 W. of cor.
- 48.00 Begin ascent over N.W. slope.
- 79.80 The Cor. of sec. 19, 20, 29 and 30; heretofore described.  
Land rolling,  
Soil sandy 2<sup>nd</sup> rate.  
No timber

1909  
May 8<sup>th</sup> At 7<sup>h</sup> 00<sup>m</sup> A.M. L.M.T. I set off 35° 53' N. on the lat. arc 17° 02' N. on the decl. arc. and determined a meridian with the solar at the cor. of sec 19, 20, 29 and 30 heretofore described.  
Thence I run

N 0° 03' W. bet. sec. 19 and 20.  
Descend gradually over N.W. slope over rolling sandy land through scattering sage and greasewood bush undergrowth and bunch grass.

- 16.50 Road from Paba to Oraibi Ariz head N.W. and S.E.
- 22.25 Left bank of dry sand wash. course N.W. from N.W. and S.E.
- 23.40 Right bank of Wash head N.W. and S.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 48 19 on W half and S 20 on E half.  
Dig pits 18 x 18 x 12 ins N and S. of post 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.
- 76.00 Top of sand ridge head N.E. and S.W. desc. gently over N.W. slope
- 80.00 Set an iron post 3 ft. long 2 in. in diam 24 ins. in the ground for cor. of sec. 17, 18, 19 and 20. marked on brass cap T 29 N 318 in N.W. R 15 E S 17 in N.E. S 20 in S.E. and S 19 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

Chains

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

40.00 \$89°56' E on a random line bet. sec. 17 and 20.  
 Set temp.  $\frac{1}{4}$  sec. cor.

79.80 Intersect N and S. line 3 lks. S. of the cor. of sec. 16  
 17, 20, and 21, heretofore described,  
 Thence Drum

N 89°57' W, on a true line bet. sec. 17 and 20.

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

39.90 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 18x18x12 in. E and W. of post 3 ft. dist.,  
 and raise a mound of earth 3  $\frac{1}{2}$  ft. base 11 ft. high.  
 N. of cor.

57.00 Top of sand stone ledge bears N.W. and S.E. desc.

58.50 Foot of ledge bears N.W. and S.E. desc gradually.

79.80 The cor. of sec. 17, 18, 19 and 20, heretofore described.

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

40.00 \$89°55' W on a random line bet. sec. 18 and 19,  
 Set temp.  $\frac{1}{4}$  sec. cor.

79.70 Intersect W. ldy of Twp. 3 lks. N. of the cor. of sec.  
 13, 18, 19 and 24, recently estab. by me & described in Exterior  
 Book "W"  
 Thence Drum

N 89°54' E on a true line bet. sec. 18 and 19,

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

21.00 Rear level land bears N.E. and S.W. Enter rolling  
 land bears N.E. and S.W.

39.70 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 18 on N half and S 19 on S half.

BOOK 2598

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 W. of cor.

79.70 The cor. of secs. 17, 18, 19 and 20, heretofore described.  
Land level and rolling.

Soil sandy and a loam 2<sup>nd</sup> and 3<sup>rd</sup> rates.

No timber

At this cor. I set off 17° 04 1/2' N. on the decl. arc. and at 11<sup>h</sup> 56 1/2<sup>m</sup> am. l.m. I turned the sun on the meridian and obtain on the lab. arc a reading of 35° 54' N. nearly

N 0° 03' W. bet. secs 17 and 18.

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

40.00 Set an iron post. 3 ft. long 2 ins. in diam. 26 ins. in the ground for 1/4 sec. cor. marked on brass cap. 45 18 on W. half and 817 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 ins. in diam. 24 ins. in the ground for cor. of secs. 7, 8, 17 and 18. marked on brass cap T 29 N S 7 in N.W. T 15 E 38 in N.E. S 17 in S.E. and S 18 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 2<sup>nd</sup> rate.

No timber.

S 9° 57' E on a random line bet. secs 8 and 17

40.00 Set temp 1/4 sec. cor.

79.78 Intersect N and S. line 2 hrs. N. of the cor. of secs. 8, 9, 16 and 17, heretofore described.

Since then

N 89° 56' W, on a true line bet. sec. 8 and 17.  
 Over rolling sandy land through sage and greasewood  
 brush undergrowth and bunch grass  
 39.89 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  
 14 S 8 on N. half and 817 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.  
 79.78 The cor. of sec. 7, 8, 17 and 18, heretofore described.  
 Land rolling.  
 Soil sandy 3<sup>rd</sup> rate  
 No timber

S 89° 54' W, on a random line bet. sec. 7 and 18.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 79.64 Intersect W. l. of Twp. 5 lks. N. of the cor. of sec.  
 7, 12, 13 and 18, recently estab. by me & described in Exterior  
 Book "W"  
 Thence S run

N 89° 52' E on a true line bet. sec. 7 and 18.  
 Over level sandy land through sage and greasewood  
 brush undergrowth and bunch grass.  
 39.64 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  
 S 7 on N. half and S 18 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.

50.00 Level land bears N.E. and S.W., Enter rolling  
 land bears N.E. and S.W.

79.64 The cor. of sec. 7, 8, 17 and 18, heretofore described.  
 Land level and rolling.  
 Soil sandy 2<sup>nd</sup> and 3<sup>rd</sup> rate,  
 No timber

May 8<sup>th</sup> 1909.

May 10<sup>th</sup> 1909  
 At 8<sup>00</sup> a.m. <sup>l.m.t.</sup> set off. 35° 55' N on the  
 lat. arc, 17° 34  $\frac{1}{2}$ ' N, on the decl. arc and determine  
 a meridian with the solar at the cor. of sec. 7, 8, 17

hereinbefore described  
and 18<sub>1</sub> (Three) Drum

N<sup>o</sup> 03 W. beh. secs. 7 and 8

Descend gradually N.W. slope over rolling sandy  
land through 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 7 on W half and S 8 on E half.

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

42.00 Photo of descent over 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  
ins. in the ground for cor. of secs. 5, 6, 7 and 8,  
marked on brass cap T 29 N. S 6 in N.W. R 15 E.  
S 5 in N.E. S 8 in S.E. and S 7 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 level and rolling

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

No timber

S 89° 56' E on a random line beh. secs. 5, and 8.

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

79.76 Intersect N and S. line at the cor. of secs., 4, 5, 8  
and 9, <sup>hereinbefore described</sup> Three Drum

N 89° 56' W. on a true line beh. secs. 5 and 8.

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

39.88 Set an iron post 3 ft. long 1 in. in diam., 26 ins. in the  
ground for  $\frac{1}{4}$  sec. cor. marked on brass cap  $\frac{1}{4}$  S 5 on  
N. half and S 8 on S half.

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

79.76 The cor. of secs. 5, 6, 7 and 8, hereinbefore described.

Land level.

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

No timber.

- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 79.54 Intersect W. ldy of Tp. on the cor. of secs. 1, 6, 7 and 12 recently estab. by me and described in Exterior Book "W"  
 Thence Drum  
 N 89° 52' E on a true line bet. sec. 6 and 7.  
 Over level sandy land through sage and greasewood brush undergrowth and bunch grass.  
 20.65 Right bank of the De Nebeto Wash 25 ft. high beam NE and SW.  
 22.60 Left bank of the De. Nebeto Wash beam NE and SW.  
 39.54 Set an iron post 3 ft. long 1 in in diam. 26 in in the ground for  $\frac{1}{4}$  sec. cor. marked on beam cap.  $\frac{1}{4}$  56 on N. half and S 7 on S. half.  
 Dig pits 18 x 18 x 12 in. East W. of post. 3 ft. dia. and raise a mound of earth 3  $\frac{1}{2}$  ft. base, 1  $\frac{1}{2}$  ft. high N. of cor.  
 79.54 The cor. of sec. 5, 6, 7 and 8, heretofore described.  
 Land level bottom  
 Soil sandy and adobe 2<sup>nd</sup> and 3<sup>rd</sup> rate.

No timber.

- At the  $\frac{1}{4}$  sec. cor. bet. sec. 6 and 7, <sup>above described</sup> Set off 17° 36'  $\frac{1}{2}$  N. on the decl. arc and at 11<sup>h</sup> 56<sup>m</sup> 17<sup>sec</sup> am l.m.t. observe the sun on the meridian and obtain on the lat arc. a reading of 35° 56' N.  
 N 0° 03' W. on a random line bet. sec. 5 and 6.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 79.76 Intersect N. ldy of Tp. 23 lbs. E of the cor. of secs. 5, 6, 31 and 32, recently estab. by me & described in Exterior Book "W"  
 Thence Drum  
 S 0° 13' E on a true line bet. sec. 5 and 6.  
 Over level sandy and adobe bottom land. Through sage and greasewood brush undergrowth and scattering bunch and sacatone grass.  
 28.25 Right bank of the De Nebeto Wash. 25 ft. high. beam NE and SW.

44

Chains

- 35.00 Dry bed of Wash Course S.W.
- 38.00 Left bank of the De Nebeto Wash 25 ft. high bank  
N.E. and S.W.
- 39.76 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the  
ground for  $\frac{1}{4}$  sec. cor. marked on brass cap  $\frac{1}{4}$  S 6.  
on W half and S 5 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.
- 79.76 The cor. of secs 5, 6, 7 and 8; heretofore described.  
Land level.  
Soil sandy and adobe 2<sup>nd</sup> and 3<sup>rd</sup> rate.  
No timber

May 10<sup>th</sup> 1907

## General Description

This township contains every variety of land from level to mountainous, and the soil ranges from stony to sandy loam. The soil of the bottom land along the De Nebeto Wash. is a sandy loam mixed with adobe capable of producing crops without irrigation, the soil of the remaining portion of the township except the mountainous portion can nearly all be classed as 3<sup>rd</sup> rate, is covered with an abundant growth of bunch grass, and at the present time is being farmed to different kinds of crops by the Indians living at Hotoville Village, without the aid of irrigation.

The top and sides of the mesa portion of the township is covered with a scattering growth of pinion pine and scrub cedar timber, the trees being too small for purposes other than wood for fuel and posts for fencing.

Extensive bodies of sandstone underlie the mesa portion of the township, this however disintegrates upon exposure to the weather and is unsuitable for building purposes.

Coal was found in secs. 17 and 20, and it is quite probable that large bodies underlie other portions of the township.



The only water found in the township occurs in springs and in ponds formed in the De Nebeto Wash, by the Navajo Indians.

There is a fine spring in sec. 12. which furnishes the water used by the Indians who live in the village of Hotaville; there is also a small spring in sec. 13 and one in sec. 26. the latter however is very strong with alkali so strong in fact that certain of the most important articles of a surgeon's menu, beans, refuse to yield to the softening effect of hours of constant boiling.

The Indian Village of Hotaville or "Hotavillage" as it is commonly known by the Indians is situated on the top of the mesa in sec. 12. contains about 100 houses and has a population of approximately 450 inhabitants.

There are no other actual settlers in the township.

May 10-1909

Sidney E. Block  
T.M.E. Examining Surveyor

NOTE Final affidavits in book V of Subdivision.

26<sup>159</sup>

LIST OF NAMES.

BOOK 2593

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

Examiner of Surveys  
Deputy Surveyor, United States, to assist in running, measuring, and

marking the lines and corners described in the foregoing field notes of the survey <sup>and resurvey</sup> of the Subdivision

Lines of Twp. 29 N. R. 16 E. of the Gila and Salt River Basins and Meridians  
in the Territory of Arizona  
showing the respective capacities in which they acted:

David White Compassman  
....., Chairman.

Lafayette Jennings....., Chairman.

Chas. L. Shumway....., Moundman.

Fred L. Warner....., Moundman.

Arthur W. Beard....., Axman.

Arthur W. Beard....., Axman.

Jay E. Jellich and Harry Lakes May....., Flagmen.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

....., United States Deputy Surveyor, in surveying all  
those parts or portions of the .....

..... of the .....

..... meridian, ..... of ....., which are represented  
in the foregoing field notes as having been surveyed by him and under his direction; and that said survey  
has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the  
corner monuments established, according to the instructions furnished by the United States Surveyor  
General for .....

*See Subdivisional Book "V"*

....., Chairman.

....., Chairman.

....., Moundman.

....., Moundman.

....., Axman.

....., Axman.

....., Flagman.

Subscribed and sworn to before me this ..... }  
day of ....., 19 .....



4760  
FINAL OATH OF UNITED STATES ~~DEPUTY SURVEYOR~~ EXAMINER OF SURVEYS

I, \_\_\_\_\_, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from \_\_\_\_\_ United States Surveyor General for \_\_\_\_\_, bearing date of the \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for \_\_\_\_\_, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of \_\_\_\_\_

\_\_\_\_\_ of the \_\_\_\_\_ meridian, in the \_\_\_\_\_ of \_\_\_\_\_, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for \_\_\_\_\_ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

\_\_\_\_\_  
United States Deputy Surveyor.

Subscribed by said \_\_\_\_\_, and sworn to before me }  
this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_ }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

\_\_\_\_\_ and reurvey \_\_\_\_\_  
The foregoing field notes of the survey of the Subdivision lines of  
Township 29 North, Range 15 East of the  
Gila and Salt River Base and Meridian, Arizona  
\_\_\_\_\_ Phoenix Arizona, APR 25 1914

executed by Sidney E. Blout, U.S. Examiner of Surveys  
under Special Instructions from the Commissioner of the General Land Office  
his contract No. \_\_\_\_\_, dated Oct. 2, 1907 and May 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 Ingalls  
\_\_\_\_\_  
United States Surveyor General.

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.