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Subdivisional  
**BOOK "ZN"**

2613

BOOK 2618

# FIELD NOTES

OF THE SURVEY OF THE

Subdivision lines of Tp 30 N. R. 13 E.

of the Gila and Salt River Base and Meridian,

in the Territory of Arizona

~~EXECUTED~~  
AS ~~SURVEYED~~ BY

Van S. Whelt U.S. Surveyor, ~~United States Deputy Surveyor~~,  
Special Destructions from the Commissioner of the General Land Office  
Under his Contract No. \_\_\_\_\_ dated Oct 2<sup>nd</sup> 1907 and May 15<sup>th</sup>, 1908

Survey commenced February 14<sup>th</sup>, 1911

Survey completed March 2<sup>nd</sup>, 1911

(A)

BOOK 2618

## NAMES AND DUTIES OF ASSISTANTS.

T. Y. White.	Chairman
Richard L. Shumway	Chairman
George B. Seig	Mound man
Harry Keyope	Mound man
Nelson Polacco	Axman
Williams R. Carson	Flag man.

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## PRELIMINARY OATHS OF ASSISTANTS.

WE, T. Y. Whiteand Richard L. Shumway

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the Subdivision lines of Tp 30 N. R. 13 E., G. & S. R. B. & M., Arizona.

T. Y. White, Chainman.Richard L. Shumway, Chainman.Subscribed and sworn to before me this 8<sup>th</sup>day of February, 1911Van L. White

U.S. Transitman

WE, George B. Seig and Harry Keyope  
 do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of the Subdivision lines of Tp 30 N. R. 13 E., G. & S. R. B. & M., Arizona.

George B. Seig, Moundman.Harry Keyope, Moundman.Subscribed and sworn to before me this 8<sup>th</sup>day of February, 1911Van L. White

U.S. Transitman

WE, Nelson Polacco

do solemnly swear that we will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given me, to the best of my skill and ability, in the survey of the Subdivision lines of Tp 30 N. R. 13 E., G. & S. R. B. & M., Arizona.

Nelson Polacco, Axman.

, Axman

Subscribed and sworn to before me this 8<sup>th</sup>day of February, 1911Van 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 30 N. R. 13 E., G. & S. R. B. & M., Arizona.

William R. Carson, Flagman.Subscribed and sworn to before me this 8<sup>th</sup>day of February, 1911Van L. White

U.S. Transitman

Chains

## Subdivision of Mp. 30 N., T813 E. BOOK 2618

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Survey commenced February 14<sup>th</sup> 1911. and executed with a W. & L. E. Gurley engineer's transit No. 76 with a Burb solar attachment. The horizontal limb is provided with one double vernier reading to single minutes of arc. The verniers of the latitude and declination arcs. read to 0' 30" of arc.

Determine the adjustments of the transit and find them correct and know from recent tests of the solar apparatus by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian established by observations on polaris that the instrument is in satisfactory adjustment.

For last complete test of the instruments see the field notes of the survey of the 3rd Guide Meridian East through Mp. 30 N., lat. ranged 12 and 13 E. in Standard Book "S"

I begin at the cor. of secs. 1, 2, 35 and 36. on S. side of <sup>described in Exterior Book AN</sup> Mts which I established January 24<sup>th</sup> 1911 Latitude 35° 56' 41" N., Longitude 110° 5' 42" W. At 8<sup>h</sup> 14<sup>m</sup> a.m. l.m.l. set off 35° 56' 1/2" N. on the lat. arc. 13° 12' 1/2" S. on the decl. arc. and determine a meridian with the solar at the above cor.; then draw,

N. 0° 01' W., lat. secs. 35 and 36,  
Descend NW 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 35 on W. half and S 36 on E. half.

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

45.50 Dry karst 10 lbs. wide course wash., hard rolling sandy land bears E. and W. Enter hilly sandy land bears E. and W. sec. S. slope.

57.00 Top of sand ridge bears E and W. desc gradually  
66.20 Top of sand stone bluff 150 ft. high bears N 26° E and S 20° W. desc. abruptly.

80.00 Set an iron post 3 ft. long 2 ins. in diam. 24 ins. in the ground for cor. of secs. 25, 26, 35 and 36.

## Subdivision of Th 30 N., R 13 E.

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marked on base Cap T 30 N. S 26 in N.W., R 13 E.  
 S 25 in N.E., S 36 in S.E. and S 35 in S.W. quadrants.  
 Raised mound of stone 2 ft. base, 1½ ft. high. W.  
 of cor. Pits impracticable  
 Land rolling and hilly.  
 Soil sandy and stony  $\frac{3}{4}$  and  $\frac{4}{4}$  rate.  
 No timber

N. 89° 58' E., on a random line, b.b. secs. 25 and 36,  
 40.00 Seh temp.  $\frac{1}{4}$  sec cor.

79.96 Intersect E. dry. of Th., 10 lks. S. of the cor. of secs.  
 established by me Nov 16, 1907 as described in Exterior Book "AR".  
 25, 30, 31, and 36, a three mile,

889° 58' W., on a true line, b.b. secs. 25 and 36,  
 descend gradually over N.W. slope, through  
 scattering cedar timber and greasewood brush  
 undergrowth

1.35 Cedar timber base N.E. and S.W.

1.50 Top of perpendicular bluff. 50 ft. high. base  
 N 30° E. and S 30° W. Land rolling sandy land  
 base N.E. and S.W. Enter stony hilly land.  
 descend abruptly over West. slope.

39.98 Seh an iron post 3 ft. long. 1 in. in diam. 26 ins.  
 in the ground forty sec. cor. marked on base  
 Cap N 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. dist.  
 did raise a mound of earth 3½ ft. base, 1½ ft.  
 high. N. of cor.

46.20 Each edge of. canyon base N. and S. decl.

56.50 Dry ravine with bottom of Canyon. 40 lks. wide course N.W. and gradually  
 79.96 The cor. of secs. 25, 26, 35 and 36, hereinbefore  
 described.  
 Land rolling, hilly, and broken.  
 Soil sandy and stony  $\frac{3}{4}$  and  $\frac{4}{4}$  rate.  
 Thin bed cedar

W. 80° 01' W., b.b. secs 25 and 26.

descend N.W. slope over broken stony hilly. land  
 through scattering greasewood brush and bunch  
 grass

23.75 Dry ravine 20 lks. wide course N 35° E. asc.

33.50 Top of rocky ridge base E and W. decl.

40.00 Seh an iron post 3 ft. long. 1 in. in diam. 26 ins.

## Subdivision of Tp 30 N., R 13 E

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Chains

- in the ground for  $\frac{1}{4}$  sec. cor. marked on brass cap  $\frac{1}{4}$  S 26 on W half and S 25 on E. half  
Raise a mound of stone 2 ft. base.  $1\frac{1}{2}$  ft. high W. of cor. Pits impracticable
- 45.50 Dry ravine 20 lks. wide, 25 ft. below  $\frac{1}{4}$  sec.  
cor. course  $N60^{\circ}E.$  asc.
- 45.70 Top of ridge bears N.E. and S.W. desc.
- 49.10 Dry ravine 20 lks. wide course  $N40^{\circ}E.$  asc.
- 55.50 Top of rocky ridge 30 ft. above ravine. bears  $N40^{\circ}E.$  and  $S40^{\circ}W.$  desc.
- 61.70 Dry ravine 10 lks. wide course N.E. asc.
- 66.50 Top of clay ridge bears N.E. and S.W. desc.
- 71.85 Dry ravine 30 lks. wide 8 ft. deep course N.E.
- 79.75 Dry ravine 10 lks. wide 3 ft. deep course  $N70^{\circ}E.$  asc.
- 80.00 Set an iron post. 3 ft. long 2 in. in diam. 24 ins.  
in the ground for cor. of sec. 23, 24, 25 and 26  
marked on brass cap. T 30 N S 23 in N.W., R 13 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 ft. dist. and  
raise a mound of earth 4 ft. base. 2 ft. high  
W. of cor.  
Land hilly and broken.  
Soil sandy, clayey, and stony 3<sup>rd</sup> and 4<sup>th</sup> rates.  
No timber

$N.89^{\circ}58'E.$ , on a random line, beh. sec. 24 and 25.

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

- 79.92 Duterech E. boundary of Tp., 5 lks. S. of the cor. of  
secs. 19, 24, 25, and 26, thence thence Thence  
 $S.89^{\circ}56'W.$ , on a true line, beh. sec. 24 and 25,  
thence S.W. slope over hilly sandy and clayey  
land, through scattering sage and greasewood  
brush undergrowth and bunch grass
- 14.25 Dry ravine 20 lks. wide, 3 ft. deep course  $N20^{\circ}W$   
asc.
- 30.00 Top of ridge bears N.E. and S.W. desc.
- 31.85 Dry ravine course N.E. asc
- 38.00 Top of sand ridge bears N. and S. desc. gradually  
over W. slope.
- 39.96 Set an iron post. 3 ft. long 1 in. in diam. 26 ins.

## Subdivision of Mp 30 N., R 13 E.

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- 4 in the ground for  $\frac{1}{4}$  sec. cor. marked on base cap '4 S 24 on N. half, and S 25 on S. half  
Dig pits 18x18x12 ins. East & W. of post 3 ft.  
dip. and raise a mound of earth  $3\frac{1}{2}$  ft.  
base  $1\frac{1}{2}$  ft. high. N. of cor.
- 45.15 Each edge of Canyon bears N. and S. decl  
abruptly over stony land.
- 69.45 Poth of abrupt descent in canyon, cross dry  
canyon 40 lbs. wide. course North, asc. gradually
- 76.80 Dry ravine 20 lbs. wide 3 ft. deep course N.E.
- 79.92 The cor. of secs. 23, 24, 25 and 26, hereinbefore described.  
Land hilly and broken.  
Soil sandy, clayey, and stony  $3^{\text{rd}}$  and  $4^{\text{th}}$  rate.  
No timber

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

February 14, 1911

- Feb. 20<sup>th</sup> 19<sup>11</sup>, At. 8<sup>h</sup> 14<sup>m</sup> a.m. l.m.t., set off.  $35^{\circ}58' \frac{1}{2}''$  N.  
on the lat. are.  $11^{\circ}07\frac{1}{2}'$  S. on the decl. are and  
determine a meridian with the solar alt.  
the cor. of secs. 23, 24, 25 and <sup>hereinbefore described</sup> 26, three D run,  
 $N.0^{\circ}07'W$ , bet. secs. 23 and 24,  
Descent N.E. slope over sandy land, through scattering  
sage and greasewood bush undergrowth and  
brush grass.
- 21.80 Dry ravine in bottom of canyon. 35 lbs. wide 5 ft.  
deep. course  $770^{\circ}W$ . asc. S.W. slope.
- 40.0 Set an iron post. 3 ft. long 1 in. in diam. 26 ins.  
in the ground for  $\frac{1}{4}$  sec. cor. marked on  
base cap '4 S 23 on W. half, and S 24 on E.  
half.  
Raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high.  
W. of cor. Pits impracticable.
- 41.20 Begin abrupt. ascent. over S. slope of clay ridge
- 52.00 Top of ridge 75 ft. above  $\frac{1}{4}$  sec. cor. bears East &  
W. decl. steep NW. slope.
- 80.00 The <sup>true</sup> point for the cor. of secs. 13, 14, 23, and 24  
falls on unsafe ground on steep NW. slope of  
ridge, therefore I continue my line and  
measurements. and at.
- 81.70 Set an iron post. 3 ft. long 2 ins in diam. 24

Claims

## Subdivision of Mp 30 N., R 13 E.

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ins. in the ground for witness cor. to the Cor. of sec. 13, 14, 23 and 24, marked on brass cap. W.C. in N. half. T 30 N. S 14 in N.W. R 13 E S 13 in N.E., S 24 in S.E. and S 23 in S.W. quadrant.

Dig pits 18x18x12 ins. N.E., S.E., S.W. and N.W. of post. 5½ ft. deep and raise a mound of earth 4 ft. base, 2 ft. high. W. of cor.

Land hilly.

Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.  
No timber

Pron the <sup>true</sup> pouch for cor. of sec. 13, 14, 23 and 24 on steep N.W. slope of ridge, L. rim,  
N. 89° 56' E., on a random line, bet. sec. 13 and 24,  
40.00 Sept temp. 1/4 sec. cor.

80.04 Ditch <sup>estab.</sup> C. bdry. of Rd. 8 lks. S. of the cor. of sec. 13, 18, 19 and 24, thence L. rim,  
S 89° 53' W., on a true line, bet. sec. 13 and 24,  
Descent gradually over S.W. slope through scattering sage and greasewood bush undergrowth and bunch grass.

9.25 East edge of Canyon bears N. and S. leave rolling sandy land bears N. and S. Enter stony broken and hilly land. desc. abruptly over W. slope into Canyon.

37.60 Mouth of a brushy rocky ditch in canyon 200 ft. below top of rim, close dry ravine 30 lks. wide banks 4 ft. high. course S.W. asc. steeply.

40.02 Below iron post 3 ft. long 1 in. in diam. 26 ins. in the ground. for 1/4 sec. cor. marked on brass cap #48 13 on N. half and S 24 on S. half.  
Dig pits 18x18x12 ins. E and W. of post. 3 ft. deep and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.

42.25 Top of rocky ridge, bears N. and S. desc.

53.55 Dry ravine 40 lks. wide course North asc.

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

59.00 Dry ravine 20 lks. wide course N.E. asc.  
along N.E. slope

68.00 Top offgent; descend steep N.W. slope

80.04 True pouch for cor. of sec. 13, 14, 23, and 24, on steep

## Subdivision of Mp 30 N., R 13 E.

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N.W. slope of ridge.  
Land, rolling, hilly, and broken.  
Soil sandy and stony  $3^{\text{rd}}$  and  $4^{\text{th}}$  rate.  
No timber.

Note:- At the witness cor. to cor. of secs. 13, 14, 23.  
and 24, <sup>hereinbefore described</sup> set off  $11^{\circ}05' S.$  on the decl. arc and  
at noon observe the sun on the meridian  
and obtain a reading of  $35^{\circ}59\frac{1}{2}' N.$  on the  
lath. arc

From true point for cor. of secs. 13, 14, 23 and 24 on steep N.W. slope of ridge, I run  
 $N.0^{\circ}01' W.$ , bth. secs. 13 and 14,  
Descend over hilly sandy and stony  
land, through scattering sage and greasewood  
brush and growth and bunch grass.  
W.C. to cor. of secs. 13, 14, 23 and 24, <sup>hereinbefore described</sup>  
dry ravine 50 ft. wide course  $n 30^{\circ} W.$  sec.  
Top of rocky ridge bears E and W. decl.  
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 base  
Cap  $\frac{1}{4} S 14$  on W. half and S 13 on E. half.  
Raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high.  
W. of cor. Pits impracticable.  
40.14 Dry ravine course west. sec. step South slope.  
62.00 Top of step ascent. 100 ft. above  $\frac{1}{4}$  sec. cor. are  
gradually.  
67.50 Top of sand ridge bears E and W. decl.  
77.75 Dry rocky ravine 80 ft. below top of ridge course  
west and steeply.  
80.00 The point for the cor. of secs. 11, 12, 13 and 14  
falls on unsafe ground on step S. slope of  
ridge. therefore off.  
79.60 8th. an iron post 3 ft. long 2 in. in diam. 24  
in. in the ground for witness cor. to the cor.  
of secs. 11, 12, 13, and 14. marked on base  
Cap. W.C. in N. half. T 30 N. S 11 in N.W. R 13 E  
S 12 in N.E., S 13 in S.E. and S 14 in S.W. quadrant.  
Raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high.  
W. of cor. Pits impracticable  
Land broken and hilly.  
Soil sandy and stony  $3^{\text{rd}}$  and  $4^{\text{th}}$  rate.  
No timber.

February 20<sup>th</sup> 1911

Claims

Subdivision of M<sup>o</sup> 30 N., R<sup>o</sup> 13 E.

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- Feb. 21<sup>st</sup> 1911 At. 8<sup>h</sup> 14<sup>m</sup> a.m. l.m.t. I set off  $36^{\circ}00' N.$   
on the lat. arc.  $10^{\circ}46' S.$  on the decl. arc. and  
determine a meridian with the solar at the true  
point for  
<sup>1</sup> Cor. of secs. 11, 12, 13 and 14, thence 1 run,  
 $N.89^{\circ}53' E.$ , on a random line, bet. secs. 12 and 13,  
40.00 Set temp  $\frac{1}{4}$  sec. cor.  
79.92 Dutrech E. bdry. of M<sup>o</sup>, 5 hrs. N. of the cor. of recs.  
established by me Nov 16, 1910 as described in Extr. Book "AR"  
7, 12, 13 and  $18\frac{1}{2}$  thence 1 run,  
 $S.89^{\circ}55' W.$ , on a true line, bet. secs. 12 and 13,  
Descend N.W. slope over rolling sandy land  
through sage and greasewood brush undergrowth  
and bunch grass.  
23.00 Roof of desert in depression bears N. and S.  
drains north are gradually  
30.00 Top of sand ridge bears  $735^{\circ} E$  and  $335^{\circ} W.$  decl.  
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 12 on N. half and S 13 on S. half.  
Dig pit  $18 \times 18 \times 12$  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.  
76.00 Bear rolling land bears N.E. and S.W., Enter stony  
hilly land bears N.E. and S.W. decl. abruptly  
on N.W. slope.  
79.15 Dry rocky ravine 15 hrs. wide course S.W. decl.  
79.92 <sup>True</sup> point for cor. of secs. 11, 12, 13, and 14 on steep South  
slope.  
Land rolling and hilly.  
Soil sandy and stony  $3^{rd}$  and  $4^{th}$  rate.  
No timber

- 
- From the true point for cor. of secs. 11, 12, 13 and 14 on steep South slope, 1 run,  
 $N.0^{\circ}01.' E.$ , bet. secs. 11 and 12,  
Cross steep S. slope over stony hilly land  
through scattering sage and greasewood brush  
undergrowth and bunch grass.  
3.50 Top of sand ridge bears N.E. and S.W. decl.  
28.30 Dry ravine 20 hrs. wide course  $S.30^{\circ}W.$  decl.  
Steep S.E. slope  
35.60 Top of steep ascent. hilly land bears N.E. and  
S.W. Enter rolling sandy land 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

## Subdivision of Twp 30 N., R13 E

- Cop.  $\frac{1}{4}$  S 11 on W. half and S12 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.
- 73.00 Top of sand ridge bears N.E. and S.W. decl.  
 gradually.
- 80.00 Set an iron post 3 ft. long 2 ins. in diam. 24  
 ins. in the ground for cor. of secs. 1, 2, 11,  
 and 12. marked on brass cap. T30N 32 in N.W.  
 R13 E. S1 in N.E., S12 in S.E. and S11 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 and hilly.  
 Soil sandy and stony 3rd and 4<sup>th</sup> rate.  
 No timber.
- Note: At this cor. I set off  $10^{\circ}46\frac{1}{2}'$  S. on the decl. arc  
 and at noon observe the sun on the meridian  
 and obtain a reading of  $36^{\circ}01' N.$  on the lat. arc.
- 
- N.  $89^{\circ}55' E.$ , on a random line, bet. secs. 1 and 12,  
 40.00 Sth temp.  $\frac{1}{4}$  sec. cor.
- 79.94 Distances E. bdry. of Twp., 5 lhr. S. of the cor. of sec.  
 1, 6, 7, and 12, established by me Nov. 16, 1910 as described in Exterior Book "AR"  
 Thence from  $88^{\circ}53' W.$ , on a true line, bet. secs. 1 and 12,  
 Ascend E. slope over rolling sandy land through  
 scattering sage and greasewood brush undergrowth  
 and bunch grass.
- 3.00 Top of sand ridge bears N.E. and S.W. decl.  
 gently.
- 39.97 Set an iron post 3 ft. long 1 in. in diam. 26  
 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  
 on brass cap  $\frac{1}{4}$  S1 on N half and S12 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.
- 63.30 Road to Oracle, Arizona, bears N.W. and S.E. ascend.
- 79.94 The cor. of secs. 1, 2, 11, and 12 hereinbefore described.  
 Land rolling.  
 Soil sandy 3<sup>rd</sup> rate.

Colinus

## Subdivision of Twp 30 N., R13 E.

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No timber

- 40.00 Set in a random line, bkh. secs. 1 and 2,  
40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 80.16 Dutwuch N. bdry. of Twp 5 lthw. N.  $89^{\circ} 57' E.$  of the cor. of  
recently established by me as described in  
secs. 1, 2, 35 and 36, Exterior Book "AO", thence I run,  
 $80^{\circ} 03' E.$  in at true line, bkh. secs 1 and 2,  
Ascend NW. slope over rolling sandy land through  
scattering sage and greasewood brush under-  
growth and bunch grass
- 40.16 Set an iron post 3 ft. long, 1 in. in diam. 26 ins.  
in the ground. for  $\frac{1}{4}$  sec. cor. marked on base  
cap  $\frac{1}{4}$  S 20° W. half and S 10° E. half  
Dig. pits 18x18x12 ins. N. and S. of post 3 ft.  
distr. and raised a mound of earth  $3\frac{1}{2}$  ft. base  
 $1\frac{1}{2}$  ft. high W. of cor.
- 58.28 Road bears  $748^{\circ} W.$  and  $540^{\circ} E.$  to Oraibi, Arizona.
- 80.16 The cor. of secs. 1, 2, 11. and 12. hereinbefore described.  
Land rolling  
Soil sandy 3rd rate.
- No timber

February 21<sup>st</sup> 1911

- February 15<sup>th</sup> <sup>1911</sup> At 7<sup>th</sup> 44<sup>m</sup> a.m. I met, & set off  $35^{\circ} 56' 27'' N.$   
on the lat. arc.  $12^{\circ} 52'$  S. on the decl. arc and determine  
a meridian with the solar at the cor. of secs.  
2, 3, 34. and 35 on S. bdry. of Twp.; recently established by  
me as described in Exterior Book "AN", thence I run,  
 $N. 0^{\circ} 01' W.$ , bkh. secs. 34 and 35,  
Ascend S.E. slope over rolling sandy land through  
scattering sage and greasewood brush undergrowth  
and bunch grass.
- 11.82 Road bears  $735^{\circ} W.$  and  $535^{\circ} E.$  to Oraibi, Arizona
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
the ground for  $\frac{1}{4}$  sec. cor. marked on base cap  $\frac{1}{4}$   
S 34° W. half and S 35° E. half.  
Dig. pits 18x18x12 ins. N. and S. of post 3 ft. distr. and  
raise a mound of earth  $3\frac{1}{2}$  ft. base.  $1\frac{1}{2}$  ft. high W.  
of cor.
- This cor. is situated on top of sand ridge, bears  
N.E. and S.W. due. gradually.
- 80.00 Set an iron post 3 ft. long 2 ins. in diam.  $2\frac{1}{4}$  ins. in

## Subdivision of Mp 30 N., T 13 E.

BOOK 2618

the ground for cor. of secs. 26, 27, 34 and 35, marked on brass cap T 30 N., S 27 in N.W., T 13 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. 5½ ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high. W. of cor.

Land rolling.

Soil sandy  $\frac{3}{4}$ <sup>rd</sup> rate.

No timber

S 89° 58' E., on a random line, bet. secs. 26 and 35;  
40.00 Set temp.  $\frac{1}{4}$  sec. cor.

79.96 Intersect N. and S. line, 5 lbs. S. of the cor. of secs. 25, 26, 35, and 36, hereinbefore described, thence 1 run,

West, on a true line, bet. secs. 26 and 35,

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

.25 Dry ravine 20 lbs. wide 2 ft. deep course N.E. asc.  
14.60 Begin abrupt ascent over cliffs 150 ft. high.

16.75 Top of cliffs bears N and S. East broken hilly land bears N. and S. Enter rolling sandy land, ascend grad.

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 26 on N. half and S 35 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.

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

Land broken, hilly, and rolling.

Soil sandy and stony  $\frac{3}{4}$ <sup>rd</sup> and  $\frac{4}{5}$ <sup>th</sup> rate.

No timber

N. 0° 01' W., bet. secs. 26 and 27,

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

25.85 Dry ravine 10 lbs. wide course N.E. asc.

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

Claims

## Subdivision of Mp 30 N., TP 13 E.

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- 1/4 S 27 on W. half and S 26 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.
- 54.00 Top of sand ridge bears N.E. and S.W. due. Land  
 rolling land bears N.E. and S.W. Enter hilly land.
- 78.00 South edge of canyon, bears E. and W. Enter stony land.  
 descend abruptly.
- 80.00 Set post for the cor. of secs. 22, 23, 26. and 27. falls.  
 in dry ravine 10 lbs. wide. Course N.E., where  
 natural causes would insure the destruction  
 of the cor.; therefore I continue my alignment and  
 measurement and ab.
- 80.25 Set an iron post 3 ft. long 2 ins. in diam. 24 ins.  
 in the ground for untried cor. to cor. of secs. 22,  
 23, 26. and 27. marked on brass cap. W.C. in N.  
 half T 30 N S 22 in N.W., T 31 E. S 23 in N.E., S 26 in  
 S.E. and S 27 in S.W. quadrants.  
 Raise a mound of stone 2 ft. base. 1 1/2 ft. high W. of.  
 cor. Pits impracticable  
 Land rolling, broken and hilly.  
 Soil sandy and stony 3rd and 4<sup>th</sup> rate.  
 No timber.
- Note:- At this W.C. I reb. off. 12° 50' 5" on the decl. arc  
 and at noon observed the sun on the meridian  
 and obtain a reading of 35° 58 1/2" N. on the lat. arc.
- 
- From the true point for cor. of secs. 22, 23, 26 and 27 in ravine, 1 run,  
 East, on a random line, bet. secs. 23 and 26,
- 40.00 Set temp. 1/4 sec. cor.
- 80.04 Intersect N. and S. line, 5 lbs. N. of the cor. of secs.  
 23, 24, 25 and 26, hereinbefore described, thence 1 run,  
 N 89° 58' W., on a true line, bet. secs. 23 and 26,  
 Ascend E. slope of clay ridge over hilly stony land,  
 through scattering sage and greasewood brush  
 undergrowth and bunch grass.
- 28.90 Top of ridge 80 ft. above the sec. cor. bears N. and S.  
 due.
- 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 23 on N. half. and S 26 on S. half.  
 Dig pits 18x18x12 ins. E and W. of post. 3 ft. dist. and

BOOK 2618

		and raise a mound of earth 3 ft. base. 1½ ft. high. N. of cor.
44.10	Dry ravine 25 lks. wide 3 ft. deep course north and	
58.70	Mop of steep ascent 100 ft. above ravine base. Grad S. asc. gradually.	
68.00	Mop of sand ridge base N. and S desc. W. slope.	
80.04	The point for cor. of secs. 22, 23, 26 and 27. in dry ravine course N.E.	
	Sand hilly. Soil sandy, clayey, and stony 3rd and 4th rate. No timber	
	From true point for cor. of secs. 22, 23, 26 and 27 in ravine, 1 run, N.W. 1/4 W., b.b. secs. 22 and 23,	
	Own hilly sandy and stony land through scattering sage and greasewood brush undergrowth and bunch grass.	
0.25	W.C. to cor. of secs. 22, 23, 26 and 27, hereinbefore described.	
0.40	Same ravine 20 lks. wide course N.W. asc. steeply	
2.00	Mop of ridge base E. and W. desc.	
4.10	The same ravine 30 lks. wide 4 ft. deep course N.E. asc.	
11.43	Mop of sand ridge 40 ft. above ravine base E. and W. desc.	
18.60	The same ravine 25 lks. wide course N.W. asc	
20.00	Mop of sand ridge base E. and W. desc.	
24.60	The same ravine 25 lks. wide course N.E. asc.	
25.05	Mop of sand ridge base E. and W. desc.	
27.75	The same ravine 20 lks. wide course N.W. asc.	
40.00	Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for 1/4 sec. cor. marked on brass cap. S 22 on W. half and S 23 on E. half.	
	Raise a mound of stone 2 ft. base. 1½ ft. high. W. of cor. Pits impracticable.	
	This cor. is situated on top of rocky ridge, base E. and W. desc. steep N.W. slope.	
58.30	Dry ravine 30 lks. wide, in bottom of canyon, course N.E. asc. abruptly.	
75.00	Mop of rocky ridge base N.E. and S.W. desc. steeply.	
80.00	Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for cor. of secs. 14, 15, 22, and 23. marked on brass cap T 30 N. S 15 in N.W., R 13 E. S 14 in N.E., S 23 in S.E., and S 22 in S.W. quadrants	

Claims

## Subdivision of 97th 30 M., R13 E.

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Raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high. N. of Cor. Pits impracticable.  
Land very broken and hilly.  
Soil sandy and stony ~~and~~ and  $\frac{1}{4}$  the rate.  
No timber

February 15<sup>th</sup>, 1911

- February 22<sup>nd</sup> 1911, A.M. 8<sup>h</sup> 14<sup>m</sup> a.m. l.m.l.-d set off.  
35° 59'  $\frac{1}{2}$  N. on the lat. arc. 10° 24' 3" S. on the decl. arc  
and determine a meridian with the solar at the  
Cor. of secs. 14, 15, 22, and <sup>above described</sup> 23, <sup>hereinbefore described</sup> three  $\frac{1}{4}$  sec. run,  
88° 58' E, on a random line, bet. secs. 14 and 23,
- 40.00 Set temp  $\frac{1}{4}$  sec. cor.
- 80.10 Intersect N. and S. line, 160 lbs. S of the witness  
Cor. to cor. of secs. 13, 14, 23, and <sup>from true point off corner,</sup> <sub>hereinbefore described</sub>  $\frac{3}{4}$  sec. <sup>three</sup>  $\frac{1}{4}$  sec. run,  
N. 89° 54' W., on a true line, bet. secs. 14 and 23,  
Descend N.W. slope over broken stony hilly land  
through scattering sage and greasewood brush under-  
growth and bunch grass
- 15.80 Dry ravine 40 lbs. wide, banks 6 ft. high course  
N.W. are.
- 36.00 Top. of steep arewh. 80 ft. above ravine. Bear North  
and S. 30° W. are. gradually.
- 38.30 Top. of rocky ridge bears N. and S. desc. W. slope.
- 40.05 Set an iron bolt 3 ft. long 1 in. in diam. 26 in. in  
the ground for  $\frac{1}{4}$  sec. cor. marked on brass cap.  
14.314 on N. half and 8.23 on S. half.
- Raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high. N.  
of Cor. Pits impracticable.
- 41.30 Dry ravine 30 ft. below  $\frac{1}{4}$  feet cor. course north are.
- 46.50 Top. of ridge bears N. and S. desc.
- 53.00 Each edge of canyon bears N. and S. desc abruptly.
- 55.50 Bottom of canyon 100 ft. below top of rim. Cross dry  
ravine course north are.
- 58.00 Top. of arewh. on sand stone rim W. side of canyon  
Bears N. and S., bears hilly land bears N. and S. Enter  
rolling sandy land.
- 62.60 Each edge of canyon 100 ft. deep on sand stone  
rim rock. bears N. and S. bears rolling land bears  
N. and S. Enter broken stony land. Descend abruptly
- 65.00 Top. of descent in canyon. Cross dry ravine course  
North are abruptly

## Subdivision of Twp. 30 N., R13 E.

Chain

BOOK 2618

67.00	Nop. of ascent. on sand stone rim rock. on W. side of Canyon bears N. and S.
69.20	East edge of Canyon. on rim rock. 100 ft. high. bears $420^{\circ}$ E. and $320^{\circ}$ W. desc. abruptly into Canyon.
73.50	Bottom of Canyon. Cross dry ravine 10 ft. wide. Course N.E. and abruptly
78.90	Nop. of abrupt ascent on sand stone rim rock. W. side of Canyon bears N. and S. asc. gradually
80.10	The cor. of secs 14, 15, 22, and 23, hereinbefore described. Land rolling hilly and broken. Soil sandy and stony 3 <sup>rd</sup> and 4 <sup>th</sup> rate. No timber

N.  $0^{\circ}01'$  W., b.p. secs. 14. and 15,  
descend N. slope over broken stony land, ridges and ravines. through, scattering sage and greasewood brush undergrowth and bunch grass.

26.16	Dry ravine 75 ft. below sec. cor. Course N.E. asc.
40.00	Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap. $\frac{1}{4}$ S 13° W. half and S 14° W. E. half. Dig pit 18x18x12 ins. N. and S. of post 3 ft. dist. and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high. W. of cor.

Note: At this cor. I set off  $10^{\circ}22'3''$  on the decl. arc and at noon observed the sun on the meridian and obtain a reading of  $35^{\circ}59\frac{1}{2}'$  N. on the lab. arc

40.75	Nop. of ridge 10 ft. above $\frac{1}{4}$ sec. cor. bears N.E. and S.W. desc.
-------	--

42.50	Dry ravine Course N.E. asc.
48.30	Nop. of ridge bears N.E. and S.W. desc.
63.00	Nop. of bluff. 100 ft. high. bears N.E. and S.W. desc. abruptly over cliffs.
80.00	Pit. of abrupt. rocky descent, <sup>bears N.E. and S.W.</sup> Set an iron post. 3 ft. long 2 ins. in diam. 24 ins. in the ground for cor. of secs. 10, 11, 14, and 15, marked on brass cap T 30 N. 310 m. N.W., R 13 E. 311 m. N.E., S 14 m. S.E. and S 15 m. S.W. quadrants. Raise a mound of stone 2 ft. base. $1\frac{1}{2}$ ft. high. W. of cor., Pit impracticable.

Claims

## Subdivision of Mp 30 N., R 13 E.

15

Land broken and hilly.  
Soil stony  $\frac{3}{4}$  <sup>th</sup> rate.  
No timber

- 8.89° 54' E., owl at random line, beh. secds. 11 and 14,  
40.00 Sth trans.  $\frac{1}{4}$  sec. cor.  
79.98 Between N. and S. line, 32 lkhv. N. of the witness cor.  
to cor. of secds. 11, 12, 13, and 14, <sup>hereinbefore described</sup>  
<sub>From true point for corner,</sub> thence S. run,  
N. 89° 57' W., owl at true line, beh. secds. 11 and 14,  
Ascend steep rocky E. slope over hilly land through  
scattering sage and greasewood brush undergrowth  
and bunch grass.  
3.80 Top of rocky ridge 40 ft. above cor. bears N.E. and  
S.W. desc. steeply.  
20.25 Dry ravine 20 lkhv. wide course North. asc  
30.00 Top of rocky peak 80 ft. above ravine desc.  
39.99 Set an iron post 3 ft. long, 1 in. in diam. 26 in.  
in the ground for  $\frac{1}{4}$  sec. cor. marked owl brass  
Cap  $\frac{1}{4}$  811 owl N. half. and 814 owl S. half.  
Dig pits 18x18x12 in. E and W. of post. 8 ft. dist.  
and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft.  
high. N. of cor.  
43.00 Dry ravine 50 lkhv. wide 8 ft. deep eoured N. 25° W.  
asc.  
70.60 Top of rocky ridge bears N. 30° E. and S. 30° W. desc.  
steeply.  
79.98 The cor. of secds. 10, 11, 14 and 15, hereinbefore described.  
Land broken and hilly.  
Soil sandy and stony  $\frac{3}{4}$  <sup>rd</sup> and  $\frac{1}{4}$  <sup>th</sup> rate  
No timber

February 29<sup>th</sup>, 1911

- February 28<sup>th</sup>, 1911, At 7<sup>th</sup> 43<sup>rd</sup> a.m. L.M.T. set off  
36° 00' N. from the lat. arc. 10° 0' 2 $\frac{1}{2}$ ' S. on the decl. arc.  
and determined a meridian with the solar at the  
cor. of secds. 10, 11, 14, and 15, <sup>hereinbefore described</sup> thence S. run,  
N. 0° 01' W. beh. secds. 10 and 11,  
Ascend S.E. slope over hilly sandy and stony land.  
18.80 Top of rocky ridge bears N.E. and S.W. desc. steeply  
32.00 Top of dunes in depression bears N.E. and S.W.  
drains to the N.E. asc.

Subdivision of  $\frac{1}{4}$  sec. 30 N., T. 13 E.

Chains

BOOK 2618

	39.40	Mts of ridge bears N.E. and S.W. dirs. Set an iron post 3 ft. long 1 in. diam. 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. marked on bears Cap $\frac{1}{4}$ S 10° W. half. and S 11° W. 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.
	77.00	Mts. of. descent in dry ravine 50 lvs. wide banks 10 ft. high. Course N.W. are. steeply.
	80.00	Set an iron post 3 ft. long 2 ins. in diam. 24 ins. in the ground for cor. of secs. 2, 3, 10, and 11. marked on bears Cap T 30 N. S 3 in N.W., R 13 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 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 broken Soil sandy and stony 3 <sup>rd</sup> and 4 <sup>th</sup> rate. No timber
		889°57' E, or at random line, bkh. secs. 2 and 11, 40.00 Set temp. $\frac{1}{4}$ sec. cor.

	79.88	Dates each N. and S. line, 5 lvs. N. of the cor. of secs. 1, 2, 11, and 12, hereinbefore described, thence 1 run, N. 89°56' W., or at true line, bkh. secs. 2 and 11, Over rolling sandy NW. slope, through scattering sage and greasewood brush undergrowth and bunch grasses.
	39.94	Set an iron post 3 ft. long 1 in. diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on bears Cap $\frac{1}{4}$ S 2° W. half and S 11° W. S. half. Dig. pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist. and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high. N. of cor.
	57.00	Note: At this cor. I set off. $10^{\circ}00'$ S. on the decl. arc and at noon observe the sun on the meridian and obtain a reading of $36^{\circ}01' N.$ on the lat. arc.
		East edge of canyon on sand stone rein rock. bears N.W. and S.E., Land rolling sandy land bears N.W. and S.E.. Enter broken stony hilly

Chains

## Subdivision of M. 30 N., R. 13 E.

17

	Land bears N.W. and S.E. descend abruptly foot of abrupt descent desc. gradually.
75.50	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. No timber
79.88	

W. 0° 01' W., on a random line, bet. secs. 2 and 3,	
40.00	Set trap 1/4 sec. cor.
80.20	Latitude N. 57' of M., 18 lbs. N. 89° 57' E. of the cor. of recently established by me as described in secs. 2, 3, 34, and 35, Exterior Book "A", thence 1 run, S. 0° 09' E., on a true line, bet. secs. 2 and 3, ascend N.W. sloped over rolling sandy land through scattering sage and greasewood brush undergrowth and bunch grass.
16.00	Top of sand ridge bears N. 30° E. and S. 30° W. desc. gradually.
35.70	Foot of descent in depression bears N.E. and S.W. ascends S.W. gradually.
40.20	Set an iron post 3 ft. long. 1 m. in diam. 26 ins. in the ground. Post 1/4 sec. cor. marked on bars Cap 1/4 ins. 30° W. half and 32. on E. half. Dig pit 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.
49.00	Top of sand ridge 20 ft. high. bears N.E. and S.W. Bears rolling land bears N.E. and S.W. Enter hilly land.
60.35	North edge of couyon on sand stone rim rock about 125 ft. high bears N.E. and S.W. desc abruptly over broken stony land.
74.00	Foot of abrupt descent descends gradually.
80.20	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. No timber

February 20<sup>th</sup> 1911

February 16<sup>th</sup> 1911 At 8<sup>h</sup> 14<sup>m</sup> a.m. l.m.t. set off.  
35° 56' 2" N. on the lat. acc. 12° 31 1/2' S. on the decl.  
acc. and determine a meridian with the solar

## Subdivision of Twp 30 N., R13 E.

Behnke

BOOK 2618

- at the cor. of secs 3, 4, 33, and 34. on S. bdry. of  
Rph. recently established by me as described in Exterior Book "AN," thence I run,  
N.W. 0°03' W, bet. secs. 33 and 34,  
descend N.W. slope over hilly sandy land through  
scattering sage and greasewood brush undergrowth  
and bunch grass.
- 28.70 Road. from Crain's Arizona to Nuba City Arizona  
bears N 65° W. and S. 65° 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 33 on W. half and S 34 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 1/2 ft. base, 1 1/2 ft. high. W.  
of cor.
- 54.10 Dry ravine 15 lbs. wide Course N.E. acc. S.E. slope.
- 71.40 Top of sand ridge bears E. and W. Exceeds E. of line  
1.00 ch. dist. due.
- 80.00 Set an iron post 3 ft. long 2 ins. in diam. 24 in.  
in the ground for cor. of secs. 27, 28, 33, and 34  
marked on brass cap T 30 N. 3 28 in N.W., R 13 E.  
S 27 in N.E., S 34 in S.E. and S 33 in S.W. quadrants.  
Raise a mound of stone, 2 ft. base 1 1/2 ft. high. W.  
of cor. Pits impractical  
Land hilly.  
Soil sandy 3rd rate.  
No timber

- S 89°58' E, over a random line, bet. secs. 27 and 34,  
40.00 Set temp. 1/4 sec. cor.
- 80.08 Ditch reech N. and S. line, 8 lbs. S. of the cor. of  
secs. 26, 27, 34, and 35, <sup>hereinbefore described</sup> three drns,  
S 89°59' W, over a true line, bet. secs. 27 and 34,  
ascend East slope over low sand hills, through  
scattering sage and greasewood brush undergrowth  
and bunch grass.
- 26.05 Road to Crain's Arizona bears N 65° W. and S 65° E.
- 27.80 Top of sand ridge bears N.E. and S.W. due.
- 32.70 Dry ravine 10 lbs. wide Course N.E. acc.
- 40.04 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 27 on W. half and S 34 on S. half.

## Subdivision of Twp 30 N., R 13 E.

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Chains

Dig pits 18x18x12 ins. East 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.

- 41.85 Top of sand ridge bears N. and S. due.
- 56.00 Dry ravine 10 lvs. wide Coarse North asc.
- 69.00 Top of sand ridge bears N. and S. due.
- 80.08 Hill cor. of secs. 27, 28, 33. and 34, hereinbefore described.  
Land hilly.  
Soil sandy 3rd rate.  
No timber

N. 0°02' W. lat. secs. 27 and 28;  
Descend N.W. slope over hilly sandy land through scattering sage and greasewood brush undergrowth and bunch grass.

- 17.05 Dry ravine 10 lvs. wide Coarse N 20° E. asc.
- 22.00 The same ravine 10 lvs. wide 4 ft. deep coarse  
N 25° W. continue ascents
- 40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins.  
in the ground for  $\frac{1}{4}$  sec. cor. marked on brass  
cap  $\frac{1}{4}$  S 28 on W. half. and 327. 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.
- 44.00 Top of ridge bears N.W. and S.E. due.
- 80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins.  
in the ground for cor. of secs. 21, 22, 27. and  
28. marked on brass cap. T 30 N. S 21 in N.W.  
R 13 E S 22 in N.E. S 27 in S.E. and S 28 in S.W.  
quadrant
- Dig pits 18x18x12 ins. in each sec. 5 ft. dish.  
and raise a mound of earth. 2 ft. base. 2 ft.  
high. W. of cor.
- Land hilly.  
Soil sandy 3rd rate.  
No timber

Note:- At this cor I set off  $12^{\circ}29\frac{1}{2}'$  S. on the decl. arc.  
and at noon observe the sun on the meridian  
and obtain a reading of  $35^{\circ}58\frac{1}{2}'^N$  on the lat. arc.

Chains

## Subdivision of Mp 30 N., T. 13 E.

BOOK 2618

	N. 89° 57' E., on a random line, Lth. recs. 22 and 27, Set traps $\frac{1}{4}$ sec. cor.
40.00	80.10 Intersect N. and S. line, 30 lks. S. of the witness Art. to cor. of secs. 22, 23, 26 and 27, hereinbefore described. Thence run from true point for corner, 88° 57' W., on a true line, Lth. recs. 22 and 27, Ascend E. slope over broken stony land through scattering sage and greasewood brush undergrowth and bunch grass.
6.40	Top of a brush-covered sand stone rimrock. on W. edge of canyon bears N. and S., Bear stony land bears N. and S. Enter sandy land. ascend gradually over N.E. slope.
40.05	Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap 45 22 on N. half and 327 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.
52.60	Road to Oraibi, Arizona bears N.W. and S.E.
80.10	The cor. of secs. 21, 22, 27, and 28, hereinbefore described. Land hilly and broken. Soil sandy and stony 3 <sup>rd</sup> and 4 <sup>th</sup> rate. No timber

W 0° 02' W. Lth. recs. 21 and 22.

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

40.00	Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap. 45 21 on W. half and 322 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.
53.90	Road to Oraibi, Arizona. bears N 70° W. and S 70° E.
60.80	Dry ravine 10 lks. wide bears N.W. asc.
77.00	Top of sand ridge 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 secs. 15, 16, 21 and 22

## Subdivision of Twp 30 N., R13 E.

21

Blair

marked out brass cap T30N. S16 in N.W., R13E  
 S15 in N.E., S22 in S.E. and S21 in S.W. quadrants.  
 Dig pits 18x18x12 ins. in each sec. 5 $\frac{1}{2}$  ft. deep  
 and raise a mound of earth 4 ft. base 2 ft.  
 high. W. of cor.

Bunch rolling.

Soil sandy 3rd rate.

No timber

February 16<sup>th</sup>, 1911

February 24<sup>th</sup>, 1911 At. 8 $\frac{1}{2}$  13<sup>th</sup> a.m. l.m.t. Drek off.  
 $35^{\circ}59'W.$  on the lat. arc.  $9^{\circ}40'N.$  on the decl. arc.  
 and determine a meridian with the solar alt.  
 at the cor. of secs. 15, 16, 21, and 22, <sup>above described</sup> hence down,  
 $11.89^{\circ}57'E.$  on a random line, bet. secs. 15 and 22,  
 40.00 Sub temp  $44^{\circ}$  sec. cor..

80.02 Ditch each N. and S. line, 12 lbs. S. of the cor. of  
 secs. 14, 15, 22, and <sup>hereinbefore described</sup> 23, <sup>hence down,</sup>  
 $88^{\circ}52'W.$  on a true line, bet. secs. 15 and 22,  
 around E. slope of ridge over hilly clayey land  
 through scattering sage and greasewood brush  
 undergrowth and bunch grass.

.80 Top of clay ridge 8 ft. above cor. bears N. and S. dec.  
 W. slope into canyon.

20.00 Floor descent in canyon bears N.E. and S.W. arc.  
 Step E. slope over cliffs.

25.50 Top of steep ascent on sandstone rim rock. W. side  
 of canyon bears  $720^{\circ}E$  and  $320^{\circ}W.$  Bear broken  
 stony land. bears N.E. and S.W. Enter rolling sandy  
 land.

40.01 Sub 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  $\frac{1}{4}$   
 $S\frac{1}{2}W$  on N. half and S22 on S. half.  
 Dig pits 18x18x12 ins. East W. of post. 3 ft. deep and  
 raise a mound of earth  $3\frac{1}{2}$  ft. base  $1\frac{1}{2}$  ft. high W. of  
 cor.

43.75 East edge of Canyon on sandstone rim rock  
 50 ft. high. bears N. and S. Enter rolling sandy land  
 bears N. and S.. Enter stony hilly and broken land  
 desc abruptly over cliffs and ledges into Canyon

51.00 Floor of abrupt descent in Canyon. bears N. and S.  
 ascend abruptly over E. slope

## Subdivision of Twp 30 No. R13 E.

BOOK 2618

- 61.25 Top of abrupt ascent. on hard stone rim rock on N. side of canyon bare N. and S., hard broken stony land bears N. and S., Enter rolling sandy land  
80.02 Thd cor. of secs. 15, 16, 21, and 22, hereinbefore described.  
Land rolling, broken, and hilly.  
Soil sandy and stony  $\frac{3}{4}$  and  $\frac{1}{2}$  rate.  
No timber
- 
- W. 0° 0' 2" W., bet. secs. 15 and 16,  
Descend N. slope over rolling sandy land through scattering sage and greasewood brush undergrowth and bunch grass.
- 20.00 Dry ravine 15 lvs. wide 15 ft. below sec. cor. Course East also rocky South slope of knoll.
- 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 pit 18x18x12 ins. N. end 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.
- 49.00 Top of rocky knoll. Descend steeply over North slope.
- 
- 80.00 Thd <sup>true</sup> point for the cor. of secs. 9, 10, 15, and 16, falls on unsafe ground on steep N.W. slope, therefore ab.
- 78.80 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for witness cor. to the cor. of secs. 9, 10, 15 and 16. marked on brass cap. W.C. in N. half.  
T 30 N 8 9 in N.W. R 13 E. S 10 in N.E., S 15 in S.E. and S 16 in S.W. quadrants.  
Dig pit 18x18x12 ins. N.E. S.E. S.W. and N.W. of post.  $5\frac{1}{2}$  ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor.  
Land rolling broken and hilly.  
Soil sandy and stony  $\frac{3}{4}$  and  $\frac{1}{2}$  rate.  
No timber
- 
- From the <sup>true</sup> point for cor. of secs. 9, 10, 15 and 16., draw, N. 89° 52' E., on a random line, bet. secs. 10 and 15,
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.

Chains

## Subdivision of Mp 3076. R 13 E.

23

- 80.16 Intersect N and S. line, 5 lks. N. of the cor. of secs.  
 10, 11, 14 and 15, <sup>hereinbefore described</sup> thence run,  
 $88^{\circ}54'W.$ , or at true line, bth. secs. 10 and 15,  
 ascend S.E. slope over stony hilly and broken land  
 through scattering sage and greasewood brush  
 undergrowth and bunch grass.
- 13.60 Top of rocky ridge 100 ft. above cor. bear N.E. and  
 S.W. desc. abruptly.
- 19.00 East edge of canyon, owl land sand ledge 50 ft.  
 high bear N.E. and S.W. desc. over cliffs.
- 25.00 Bottom of canyon 100 ft. deep. Course N.E. are.  
 abruptly.
- 38.80 Top of sand stone ledge on W. side of canyon  
 bear N. and S. are. over sand ridges.
- 40.08 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
 the ground for  $\frac{1}{4}$  sec. ch. marked on brass cap  $\frac{3}{4}$   
 $\frac{3}{10}$  on N. half and  $\frac{8}{15}$  on S. half.  
 Dig pit  $18 \times 18 \times 12$  ins. East 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.
- 55.50 Summit of land ridge bear N. and S. desc. step  
 West slope!
- 80.16 <sup>The true</sup> point for cor. of secs. 9, 10, 15 and 16, on steep N.W. slope  
 Land hilly and broken.  
 Soil sandy and stony  $\frac{3}{rd}$  and  $\frac{4}{th}$  rate.  
 No timber.

NOTE:- At the witness cor. to cor. of secs. 9, 10, 15 and 16, <sup>hereinbefore described,</sup>  
 Set off.  $9^{\circ}38\frac{1}{2}'S.$  on the decl. are and at noon  
 observe the sun on the meridian and obtain  
 a reading of  $36^{\circ}0\frac{1}{2}'N.$  on the lat. are.

- From the true point for cor. of secs. 9, 10, 15 and 16, 1 run,  
 $N.W.^{\circ}02'W.$ , bth. secs. 9 and 10,  
 descend step N.W. slope over stony hilly land  
 through scattering sage and greasewood brush  
 undergrowth.
- 15.70 South edge of canyon on cliffs. 100 ft. high. bear  
 $725^{\circ}E$  and  $325^{\circ}W.$  descend abruptly into canyon
- 22.30 Root of descent in canyon. Cross dry ravine course  
 N.E. are abruptly.
- 29.30 Top of abrupt break on sand stone cliffs on N.

BOOK 2618

	Slopes of canyon bears $N25^{\circ}E$ and $S25^{\circ}W$ , level stony land bears $N.E.$ and $S.W.$ . Enter clayey land and S.E. slope of ridge
38.75	Top of clay ridge bears $N20^{\circ}E$ and $S20^{\circ}W$ . desc new slopes.
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 90° W. half and S 10° on E. half. Raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high. W. of cor. Pits impracticable
40.35	Dry ravine 10 ft. below $\frac{1}{4}$ sec. cor. Course N.E. asc.
42.00	Top of clay ridge 20 ft. above ravine bears $N20^{\circ}E$ and $S20^{\circ}W$ . desc. abruptly.
72.00	Dry ravine course N.E. asc. S. slope. of stony peak.
80.00	Set an iron post 3 ft. long 2 ins. in diam. 24 ins. in the ground for cor. of recs. 3, 4, 9, and 10. marked on brass cap T 30 N. S 4 m N.W. R13 E. 33 in N.E. S 10 in S.E. and S 9 in S.W. quadrants. Raise a mound of stone, 2 ft. base. $1\frac{1}{2}$ ft. high. W. of cor. Pits impracticable Land hilly and broken. Soil sandy, clayey and stony 4 <sup>th</sup> ratio. No timber

	$N89^{\circ}54'E$ , on a random line, beh. recs. Sand 10;
40.00	Set trap $\frac{1}{4}$ sec. cor.
80.10	Dutrech N. and S. line, 8 lks. S. of the cor. of recs. 2, 3, 10 and 11, <sup>hereinbefore described</sup> then Driv, $889^{\circ}51'W$ . on a true line beh. recs. Sand 10. Descend S.W. slope over sandy land through scattering sage and greasewood brush undergrowth and bunch grass
83.60	Dry ravine 50 lks. wide, 10 ft. deep Course N.W. asc
25.90	Point of clay ridge bears N. and S. desc.
37.00	Dry ravine 5 lks. wide Course N. asc.
40.05	Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap. $\frac{1}{4}$ S 3 on N. half and S 10 on S. half. Dig pits $18 \times 18 \times 12$ ins. Sand W. of post 3 ft. deep and raise a mound of earth $3\frac{1}{2}$ ft. base. $1\frac{1}{2}$ ft. high. N. of cor

Chain

25

47.00	Nop of clay ridge bears N. and S. due gradually.
55.60	Leave undergrowth and bunch grass bears N. and S. Enter Cultivated land bears N. 20.00 chs. and S. 15.00 chs. dish.
63.00	Leave Cultivated land bears N. 20.00 chs. and S. 15.00 chs. dish., Enter undergrowth and bunch grass.
74.00	Begins steep ascent over S.E. slope of peak.
80.10	The cor. of secs. 3, 4, 9, and 10, hereinbefore described. Lively hilly and broken. Soil sandy clayey and stony 3 <sup>rd</sup> and 4 <sup>th</sup> rate. No timber

	W. 000 2' W, now at random line, beh. secs. 3 and 4,
40.00	Set tape. $\frac{1}{4}$ sec. cor. S.
80.34	Intersect N. bdry. of Pp. 8 lbs. N. 89° 57' E. of the cor. of secs. 3, 4, 33, and 34, recently established by me as described in Exterior Book "AO", thence run, S. 005' E, now at true line, beh. secs. 3 and 4, Descend S. slope over hilly sandy and stony land, through scattering sage and greasewood brush undergrowth and bunch grass.
4.80	Dry ravine 10 lbs. wide course N.E. asc.
18.85	Nop of sand ridge bears N.E. and S.W. desc.
34.45	Foot of descent. Leave undergrowth and bunch grass bears E and W. Enter level cultivated land bears E. 2.00 chs. and W. 5.00 chs. dish.
40.34	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 40 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. back 1 $\frac{1}{2}$ ft. high. W. of cor.
67.20	Leave level cultivated land bears E 10.00 chs. and W. 10.00 chs. dish., Enter hilly land and undergrowth. Asc. North slope of rocky peak.
78.00	Nop of peak. 50 ft. high. desc. abruptly over South slope.
80.34	The cor. of secs. 3, 4, 9, and 10, hereinbefore described. Land level and hilly. Soil sandy and stony 3 <sup>rd</sup> and 4 <sup>th</sup> rate. No timber

February 24<sup>th</sup> 1911

BOOK 2618

- February 17<sup>th</sup>, 1911, Ch. 9<sup>th</sup> 14<sup>m</sup> a.m., Lat. Dist off.  $35^{\circ}56\frac{1}{2}'$   
 Now the lat. are.  $12^{\circ}11'3''$  S. of the decl. arc and  
 determine a meridian with the solar at the  
 Cor. of secs. 4, 5, 32, and 33 on S. bdry. of Twp.,  
 recently estab. by me as described in Exterior Book "A", thence I run,  
 $N.0^{\circ}03'W.$ , bet. secs. 32. and 33,  
 Around S. slope over rolling sandy land, through  
 scattering sage and greasewood brush undergrowth  
 and bunch grass
- 40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in  
 the ground for  $\frac{1}{4}$  sec. cor. marked on brass  
 cap 14 S 32 on W. half and 33 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.
- 55.50 Top of sand ridge bears E. and W. decl.
- 67.28 Road from Orabi Arizona to Cuba City Arizona  
 bears  $770^{\circ}W.$  and  $870^{\circ}E.$
- 80.00 Set an iron post 3 ft. long 2 ins. in diam. 24  
 ins. in the ground for cor. of secs. 28, 29, 32, and  
 33. marked on brass cap T 80 N 329 in N.W. R13  
 E. 328 in N.E. 333 in S.E. and 332 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 ~~gravelly~~.  
 No timber
- 
- $889^{\circ}58'E.$ , on a random line, bet. secs. 28 and 33,
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 80.10 Intersect N. and S. line, 12 lbs. N. of the cor. of  
 secs. 27, 28, 33, and <sup>hereinbefore described,</sup> 34, <sub>three</sub> <sup>one</sup> Drift,  
 $889^{\circ}58'W.$ , on a true line, bet. secs. 28 and 33,  
 Around N.W. slope over low sand hills. through  
 scattering sage and greasewood brush undergrowth  
 and bunch grass
- 4.20 Dry ravine 10 lbs. wide course N.W. sec.
- 8.70 Top of rocky ridge bears N. and S. decl.
- 21.20 Dry ravine 10 lbs. wide 20 ft. below top of ridge

Blairs

## Subdivision of Mp 30 N., R 18 E

27

	Coarse N.W. asc.
31.00	Top of sand ridge bears $7140^{\circ}$ W. and $340^{\circ}$ E. decl. S.W. slope over rolling land.
40.05	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. E.S. 28 on N. half, and S. 33 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.
80.10	The cor. of secs. 28 29. 32. and 33, hereinbefore described. Land rolling and hilly. Soil sandy and stony 3 <sup>rd</sup> and 4 <sup>th</sup> rate. No timber
	$N.0^{\circ}03' W.$ , bkt. secs. 28 and 29, Second N. slope over rolling sandy land, through scattering sage and greasewood brush under- growth and bunch grass.
21.50	Land rolling sandy land bears E. and W. Enter hilly land. descended steep N. slope
30.80	Dry ravine 15 lks. wide course $735^{\circ}$ E. asc.
33.20	Top of rocky ridge bears N.E. and S.W. decl.
38.85	Dry ravine 6 lks. wide course $730^{\circ}$ E. asc.
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 E.S. 29 on W. half and S. 28 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.
Note:-	At this cor. I set off $12^{\circ}08\frac{1}{2}' S.$ on the decl. arc and at noon observe the sun on the meridian, and obtain at reading of $35^{\circ}58' N.$ on the lat. arc.
44.50	Top of sand ridge bears N.E. and S.W. decl.
58.20	Dry ravine 20 lks. wide course N.E. and
63.00	Top of sand ridge 25 ft. above ravine bears N.E. and S.W. decl.
70.00	Top of depression in depression bears N.E. and S.W. drains to the N.E. asc.
78.00	Top of sand ridge 20 ft. high bears N.E. and S.W. decl.

*Chauss*

Subdivision of Pp 30 N., R 13 E.

BOOK 2618

8000 Set an iron post 3 ft. long 2 ins. in diam. 24 ins. in the ground for cor. of recs. 20, 21, 28, and 29, marked on bases cap. 130 N. S. 20 in N.W. 113 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 sec. 5 1/2 ft. dish and raise a mound of earth 4 ft. base. 2 ft. high. W. of cor.

Sand rolling and hilly.

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

No timber

889° 53' E., on a random line, bet. secs. 21 and 28,

40.00 Set tang 1/4 sec. cor.

80.00 Intersect N. and S. line at the cor. of secs. 21, 22, 27, and 28; <sup>hereinbefore described</sup> hence true.

W. 89° 53' W., on a true line, bet. secs. 21 and 28, descend N.W. slope over hilly sandy and stony land through scattering sage and juniper wood brush, undergrowth and bunch grass.

11.50 Dry ravine 25 lks. wide course North asc.

18.00 1/2 ft. of sand ridge bears N. and S. desc.

24.90 Dry ravine 10 lks. wide 20 ft. below top of ridge course North asc.

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

39.60 Dry ravine 10 lks. wide course North asc.

40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for 1/4 sec. cor. marked on bases cap. 1/4 S. 21 on N. half and S. 28 on S. half. Dig pits 18 x 18 x 12 ins. Sand 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.

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

69.80 Dry ravine 15 lks. wide course N.E. asc.

72.00 1/2 ft. of ridge bears N.E. and S.W. desc.

76.00 Dry ravine course N.E. asc.

80.00 The cor. of secs. 20, 21, 28 and 29, hereinbefore described.

Sand hilly.

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

No timber

February 17<sup>th</sup> 1911

February 17<sup>th</sup> 1911

February 25<sup>th</sup> 1911 Ch. 8<sup>th</sup> 13<sup>th</sup> a.m. l.m.l.; Dark off.  
 35° 58' 2" N. ov the lat. arc. 9° 18' 2" S. ov the decl.  
 are and determine a meridian with the  
 solar at the cor. of secs. 20, 21, 28, and 29,<sup>hereinbefore described</sup>  
 thence & run,  
 N. 0° 03' W. bet. secs. 20 and 21,  
 Over rolling sandy land. slopes to the N.E. through  
 scattering sage and greasewood brush undergrowth  
 and bunch grass.

6.00 Depression bears N 36° E. and S 35° W. drains to  
 the N.E. arc.

10.00 Top of sand ridge bear N.E. and S.W. decl. N.W. slope

40.00 Below 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 20 ov W. half and S 21 ov E. half.  
 Dig pits 18x18x12 ins. N. and S. of post 3 ft. dist.  
 and raise a mound of earth 3 ft. high 1 1/2  
 ft. high W. of cor.

60.00 <sup>ascend S.E. slope.</sup> Below iron post 3 ft. long 2 ins. in diam.  
 24 ins. in the ground for cor. of secs. 16, 17,  
 20 and 21, marked w/ brass cap T 30 N. S 17  
 in N.W., T 31 E. S 16 in N.E., S 21 in S.E. and S 20  
 in S.W. quadrant.  
 Dig pits 18x18x12 ins. in each sec. 5 1/2 ft. dist.  
 and raise a mound of earth 4 ft. high, 2 ft.  
 high. W. of cor.

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

S 89° 53' E., ov a random line, bet. secs. 16 and 21,

40.00 Det temp. 1/4 sec. cor.

79.94 Dutiech N. and S. line, 5 lbs. S. of the cor. of secs.  
 15, 16, 21 and 23,<sup>hereinbefore described</sup> thence & run,  
 N. 89° 55' W., ov a true line, bet. secs. 16 and 21,  
 Over rolling sandy land, through scattering sage  
 and greasewood brush undergrowth and bunch  
 grass.

1.25 East edge of canyon ov sandstone wall. 100  
 ft. high. bears N.E. and S.W. Land rolling sandy  
 land bears N.E. and S.W. Enter broken stony land

## Subdivision of Mp 30 N., R 13 E.

BOOK 2618

		Descend abruptly. Dry ravine in bottom of canyon 150 ft. below top of rim. course N.E. across slope
	11.50	Dry ravine in bottom of canyon 150 ft. below top of rim. course N.E. across slope
	21.50	Top of descent on sandstone wall, W. side of Canyon. bears N.E. and S.W. Land broken stony land bears N.W. and S.E. Enter rolling sandy land. ascend gradually over E. slope of ridge
	39.97	Sedaw iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap $\frac{1}{4}$ 31° 0' W. half and 32° 0' 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.
	42.00	Top of sand ridge bears N. and S. desc. gently
	46.90	Bottom of descent in depression bears N. and S. bears North. asc. gently.
	79.94	The cor. of sect. 16, 17, 20, and 21, hereinbefore described. Land rolling and broken Soil sandy and stony $3\frac{1}{2}$ and 4" rate. No timber

Note:- At this cor. det off  $9^{\circ}16' S.$  on the decl. arc  
and at noon observe the sun on the meridian  
and obtain on the lab. area reading of  $35^{\circ}57' \frac{1}{2} N.$

		N. 0° 03' W., lab. sects. 16 and 17, descend N. slope over rolling sandy land through scattering sage and greasewood brush. undergrowth and bunch grass.
	40.00	Sedaw iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap $\frac{1}{4}$ 31° 0' W. half and 31° 0' S. 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.
	60.71	South edge of Canyon 100 ft. deep. bears rolling sandy land bears N.E. and S.W.. Enter broken stony land, descend abruptly
	71.80	Bottom of abrupt rocky descent in canyon <sup>course N.E.</sup> 100 ft. below top of rim. bears broken stony land bears N.E. and S.W. Enter rolling sandy land. Dry ravine course N.E.
	72.20	

## Subdivision of Mp 30 N., R. 13 E.

31

Chains

80.00	Set an iron post 3 ft. long 2 ins. in diam. 24 ins. in the ground for cor. of secs. 8, 9, 16, and 17. marked out brass cap T30 N. S8 ins N.W. R13 E 39 ins N.E., S16 ins S.E. and S17 ins S.W. quadrants. Dig pits 18x18x12 ins. in each sec. 5½ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high. W. of cor. Land rolling and broken. Soil sandy and stony $\frac{3}{4}$ and $\frac{4}{5}$ the rate. No timber.
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889°55'E, on a random line, bch. secs. 9 and 16,	
40.00	Set temp. ¼ sec. cor.
79.90	Between N. and S. line, 102 lks. N. of the Witten Brs. to cor. of secs. 9, 10, 15 and 16, <sup>hereinbefore described</sup> then to Driv., from true point for corner, on steep N.E. slope 889°57' E, on a true line, bch. secs. 9 and 16, ascend steep rocky N.E. slope over stony hilly land through scattering sage and greasewood brush undergrowth and bunch grass
.60	Top of rocky spur 25 ft. above cor. bears N.E. and S.W. desc. steep N.W. slope into canyon 75 ft. deep.
18.00	Dry ravine at foot of descent in Canyon Course N.E. asc. abruptly
33.00	Top of abrupt ascent on west edge of canyon bears N 30° E. and S 30° W. Desc. broken stony land bears N.E. and S.W. Enter rolling sandy land.
39.95	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 9. on N. half and 316 on S. half. Dig pits 18x18x12 ins. E and W. of post 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high. N. of cor.
73.00	East edge of canyon on sand stone rim rock. 150 ft. high. bears N. and S., Desc. rolling sandy land bears N. and S., Enter broken stony land. descend abruptly over W. slope into canyon
74.50	Floor of descent in canyon, Desc. broken stony land bears N. and S. Enter rolling sandy land.
75.25	dry ravine 20 lks. wide 3 ft. deep gorge N.E.
79.90	The cor. of secs. 8, 9, 16. and 17. hereinbefore described. Land rolling and broken. Soil sandy and stony $\frac{3}{4}$ and $\frac{4}{5}$ the rate.

No timber

February 25<sup>th</sup> 1911

Feb. 27<sup>th</sup> 1911 Abt. 7<sup>h</sup> 43<sup>m</sup> a.m. l.m.t. Set off 36' 0" M.  
on the lat. arc. 8° 34' S. on the decl. arc. and  
determined a meridian with the solar ab. the  
cor. of secs. 8, 9, 16, and 17, <sup>hereinbefore described</sup> hence drawn.

SW. 003' W., Sec. 8 and 9,

Over rolling sandy land in bottom of Canyon,  
through scattering sage and greasewood brush  
undergrowth and bunch grass.

5.00 Leave rolling sandy land bears N.E. and S.W. Enter  
broken stony land bears N.E. and S.W. Around steep  
S.E. slope over ridges and ravines.

20.00 <sup>Second South slope.</sup> 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  $\frac{1}{4}$  380 W. half and 39 on E. half.

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

40.75 Top of ridge 15 ft. above  $\frac{1}{4}$  sec. cor. bears E and  
W. desc.

57.05 Dry ravine 15 lbs. wide 80 ft. below  $\frac{1}{4}$  sec. cor.  
Course N70°E. asc.

57.50 Top of rocky ridge 100 ft. above ravine bears.  
End W. desc. abruptly.

80.00 The fourth for the cor. of secs. 4, 5, 8, and 9, falls  
in bed of dry ravine rolled wide course N.E., where  
natural causes would insure the destruction  
of the cor. therefore continue my alignment and  
measurement. Asc S.E. slope

80.25 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins.  
in the ground for witness cor. to the cor. of secs.  
4, 5, 8, and 9, marked on brass cap W.C. in  
N. half, T30 N. S5 in N.W., R13 E. S4 in N.E.  
S9 in S.E. and S8 in S.W. quadrants.

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

Sand rolling and broken.

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

No timber

Subdivision of M<sup>c</sup> 30 N., R 13 E.

33

Cochran

- From true point for cor. of secs. 4, 5, 8 and 9 in ravine, 1/2 mi.  
 N. 89° 57' E., on a random line betw. secs. 4 and 9,  
 40.00 Sth temp.  $\frac{1}{4}$  sec. cor.
- 80.08 Intersech N. and S. line, 16 lks. N. of the cor. of  
 secs. 3, 4, 9, and 10, <sup>perem before described</sup> thence run,  
 N. 89° 56' W., on a true line, betw. secs. 4 and 9,  
 ascend S.E. slope over broken stony hilly land  
 through scattering sage and greasewood brush.  
 undergrowth and bunch grass.
- 1.40 Top of ridge 15 ft. above cor. bears N.E. and S.W.  
 decl.
- 4.50 Root of steep descent. Lean hilly land bears  
 N. and S. Enter level sandy bottom land.
- 25.00 Lean level land bears N. and S. Enter stony  
 hilly land ascend steep E. slope of ridge.
- 28.20 Top of ridge bears N. and S. decl.
- 32.00 Dry ravine 5 lks. wide course N.E. asc.
- 40.04 Short iron post 3 ft. long, 1 in. in diam. 26 ins.  
 in the ground for  $\frac{1}{4}$  sec. cor. marked w/ brass  
 cap  $\frac{1}{4}$  S 45 W. half and S 45 W. S. half.  
 Raise a mound of stone 2 ft. base 1 $\frac{1}{2}$  ft. high.  
 N. of cor. Pits impracticable.
- Note:- At this cor. S. side off. 8° 31' S. on the decl. asc  
 and at noon observe the sun on the meridian  
 and obtain a reading of 36° 01' 71. on the lat. asc.
- 40.76 Top of clay ridge 15 ft. above  $\frac{1}{4}$  sec. cor.  
 bears N.E. and S.W. decl. steeply.
- 42.30 Root of descent in canyon bed N. and S. asc.
- 57.15 Top of clay ridge 240 ft. high. bears N 30° E. and  
 S 30° W. decl.
- 66.30 Dry ravine 20 lks. wide. 30 ft. below top of ridge  
 bears N 40° E. asc.
- 80.08 <sup>true point for</sup> Then cor. of secs. 4, 5, 8 and 9, in ravine, course N.E.  
 Land level and hilly.  
 Soil sandy and stony 3rd and 4th ratio.  
 No timber
- 
- N 0° 03' W. on a random line betw. secs. 4 and  
 5, from true point for cor. of secs. 4, 5, 8 and 9 in ravine, course N.E.
- 40.00 Sth temp.  $\frac{1}{4}$  sec. cor.
- 80.32 Intersech N. bdry. of M<sup>c</sup> 12 lks. N. 89° 57' E. of the cor. of  
 secs. 4, 5, 32, and 33, <sup>recently established by me as described in</sup> Exterior Book "AO" thence 1 run,

BOOK 2618

- 8.0°08' E., on a true line, sec. recs. 4 and 5, around steep rocky N.W. slope over stony hilly land through scattering sage and greasewood brush undergrowth and bunch grass.
- 25.82 Top of rocky ridge bears N40°E. and S40°W. decl over S.E. slope.
- 39.52 Dry ravine 5 lvs. wide course N.E. asc.
- 40.32 Sch. 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 55°W. half and S 4 on E. half.  
Raise a mound of stone 2 ft. base, 1 1/2 ft. high. W. of cor. Pit impracticable
- 70.77 Top of ridge bears N.E. and S.W. decl.
- 74.02 Mouth of draw in depression bears N.E. and S.W. drains to the N.E. asc.
- 76.32 Top of clay ridge bears E. and W. decl.
- 80.07 Witness corner to cor. of secs. 4, 5, 8 and 9, hereinbefore described.
- 80.32 True point <sup>for Cor. of Secs. 4, 5, 8 and 9, in ravine</sup> course N.E. Land hilly.  
Soil sandy clayey and stony <sup>recently established by me as described in Exterior Book "JAN"</sup> 3rd and 4th rate  
No timber

February 27<sup>th</sup> 1911

- Feb. 18<sup>th</sup> 1911 Ab. 7 1/44" A.M. l.m.l. & set off 35° 56' 1" N. on the lat. arc 11° 50' S. on the decl. arc and determine a meridian with the solar ab the cor. of secs. 5, 6, 31 and 32. on S. boundary of M<sup>t</sup> 1 thence S. run, N. 0° 03' W., bsp. secs. 31 and 32,  
around S. slope over rolling sandy land through scattering sage and greasewood brush undergrowth and bunch grass
- 40.00 Sch. 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 31°W. half and S 32 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.
- 80.00 Sch. an iron post 3 ft. long 2 ins. in diam. 24 ins. in the ground for cor. of secs. 29, 30, 31 and 32. marked on brass cap. T 30 N. S 30 in N.W. T 13 E. S 29 in N.E., S 32 in S.E. and S 31 in S.W. quadrants.

## Subdivision of Twp 30 N., R 13 E.

Chain

35

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

- 889° 58' E., on a random line, bet. secs. 29 and 32,  
40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
79.96 Intersect N. and S. line, at the cor. of secs. 28, 29  
<sup>hereinbefore described</sup>  
32, and 33, thence I run,  
W. 89° 58' W., on a true line, bet. secs. 29 and 32,  
Ascend S.E. slope over rolling sandy land through  
scattering sage and greasewood brush under-  
growth and bunch grass  
25.20 Road from Oracle to Tomb City Arizona, bear  
N 70° W. and S. 70° E.  
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 29 on N. half and S 32 on S. half.  
Dig pits 18x18x12 ins. E and W. of post. 5 ft.  
dist. and raise a mound of earth 3 $\frac{1}{2}$  ft. base  
1 $\frac{1}{2}$  ft. high. N. of cor.  
79.96 The cor. of secs. 29, 30, 31, and 32, hereinbefore described  
Land rolling.  
Soil sandy 3<sup>rd</sup> rate.  
No timber

- W. 89° 58' W., on a random line, bet. secs. 30 and 31,  
40.00 Set temp  $\frac{1}{4}$  sec. cor.  
79.64 Intersect the 3<sup>rd</sup> Guide Meridian East. 8 lbs. S.  
of the cor. of secs. 25, 30, 31 and 32, recently established  
by me as described in Standard Book "5", thence I run,  
889° 55' E., on a true line, bet. secs. 30 and 31,  
Over rolling sandy land  
through scattering sage and greasewood  
brush 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.  $\frac{1}{4}$  S 30 on N. half and S 31 on S. half.

## Subdivision of Twp 30 N., R 13 E.

- 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.
- 79.64 The cor. of secs. 29, 30, 31 and 32, hereinbefore described  
Land rolling  
Soil sandy  $\frac{3}{4}$  rd rate.  
No timber

Note:- At this cor. I set off  $11^{\circ}47\frac{1}{2}'S.$  on the decl. arc and at noon observe the sun on the meridian and obtain a reading of  $35^{\circ}58'N.$  on the lat. arc.

- N. 0°03' W. bkt. secs. 29. and 30,  
across S.W. slope over rolling sandy land through scattering sage and greasewood brush under-growth and bunch grass
- 9.00 Top of sand ridge bears N.E. and S.W. Bear rolling land bears N.E. and S.W. Enter hilly land desc.
- 26.20 Road from Oracle Arizona to Nuba City Arizona bears  $770^{\circ}W.$  and  $570^{\circ}E.$
- 40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked on brass cap  $\frac{1}{4}$  S 300W W. half. and S 29 NW 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.
- 67.75 Dry ravine 20 lbs. wide course N.W. arc.
- 79.70 Top of clay ridge bears E and W. desc.
- 80.00 Set an iron post 3 ft. long 2 in. in diam. 24 ins. in the ground for cor. of secs. 19, 20, 29, and 30. marked on brass cap. T 30 N S 19 in N.W., R 13 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.  $5\frac{1}{2}$  ft. dist. and raise a mound of earth 4 ft. base. 2 ft. high W. of cor.  
Land rolling, and hilly.  
Soil sandy and clayey  $\frac{3}{4}$  rd and  $\frac{4}{5}$  th rate.

Claims

Subdivision of N<sup>o</sup> 30 N., R 13 E.

37

No timber

- 889°58' E., on a random line, bkh. secs. 20 and 29,  
40.00 Sch temp.  $\frac{1}{4}$  sec. cor.
- 79.94 Intersect N. and S. line, 5 lks. S. of the cor. of  
secs. 20, 21, 28, and 29, <sup>hereinbefore described</sup> thence down,  
West., on a true line, bkh. secs. 20 and 29,  
descend gradually over N.W. slope, through  
scattering sage and greasewood brush under-  
growth and bunch grass.
- 3.50 Roof of descent in depression bears N.E. and  
S.W. drains to the N.E. are gradually.
- 39.97 Sch an iron fork 3 ft. long 1 in. in diam. 26 ins.  
in the ground for  $\frac{1}{4}$  sec. cor. marked on brass  
cap  $\frac{1}{4}$  320 on N. half and 329 on S. half.  
Dig pit 18 x 18 x 12 ins. E and W. of fork 3 ft. deep  
and raise a mound of earth  $3\frac{1}{2}$  ft. base  $1\frac{1}{2}$   
ft. high. N. of cor.
- 42.80 Roof of sand ridge bears N.E. and S.W. Low  
rolling land bears N.E. and S.W. Enter hilly  
land. desc. N.W. slopes
- 49.50 Dry ravine 10 lks. wide course N 20° E. asc.
- 56.00 Roof of sand ridge bears N. and S. desc.
- 61.80 Dry ravine 10 lks. wide course N 20° E. asc.
- 67.40 Roof of sand ridge bears N. and S. desc.
- 79.94 The cor. of secs. 19, 20, 29, and 30, hereinbefore described.  
Land rolling and hilly.  
Soil sandy  $3^{\text{rd}}$  rate.

No timber

February 18, 1911

February 28<sup>th</sup> 1911 D. 9<sup>h</sup> 13<sup>m</sup> a.m., l. m. t. I set off  
35° 58' N. on the lat. arc., 8° 11' S. on the decl.  
arc. and determine a meridian with the  
solar at the cor. of secs. 19, 20, 29, and 30, <sup>hereinbefore described</sup>  
thence down,

- N. 89° 55' W., on a random line, bkh. secs. 19, and 30,  
40.00 Sch temp.  $\frac{1}{4}$  sec. cor.
- 79.72 Intersect the 3<sup>rd</sup> Guide Meridian East, 5 lks.  
S. of the cor. of secs. 19, 24, 25 and 30, recently  
established by me as described in Standard Book "S", thence 1 run,

## Subdivision of Mp 30 N., TP 13 E.

Chains

BOOK 2618

	S.89053° E., over a true line, beh. secs. 19 and 30, over level sandy land, through scattering sage and greasewood brush undergrowth and bunch grass.
13.00	Leave level land bears N. and S. Enter hilly land descend E. slope.
27.00	Dry ravine 15 lks. wide course north asc.
31.40	Mph of clay ridge bears N. and S. desc.
39.72	Beh. an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked over bears Cap $\frac{1}{4}$ S 19 on N. 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 $\frac{3}{4}$ ft. base. $1\frac{1}{2}$ ft. high. N. of cor.
49.95	Dry ravine 8 lks. wide course north asc.
55.00	Mph of clay ridge 20 ft. above ravine bears N. and S. desc.
61.80	Dry ravine 25 lks. wide 4 ft. deep course North asc.
64.40	Mph of ridge bears N. and S. desc.
69.55	Dry ravine 20 lks. wide course N.W. asc.
73.45	Mph of clay ridge 25 ft. high. bears N. and S. desc.
75.95	Dry ravine 12 lks. wide course N.E. asc. steeply
79.72	The cor. of secs. 19, 20, 29 and 30, hereinbefore described. Land level and hilly. Soil sandy and clayey 3 <sup>rd</sup> and 4 <sup>th</sup> rate. No timber

N.0°03' W., beh. secs. 19 and 30,

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

8.25	Dry ravine 20 ft. below cor. course N.E. asc.
9.75	Mph of clay ridge bears E and W. desc.
10.60	Some ravine course N.W. asc.
20.00	Mph of ridge bears N.W. and S.E. desc.
28.40	Dry ravine 25 lks. wide 3 ft. deep course N.E. asc.
40.00	Beh. an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked over bears 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. and raise a mound of earth $\frac{3}{4}$ ft. base. $1\frac{1}{2}$ ft. high. W. of cor.

Census

52.00	Mop of sand ridge bears N.E. and S.W. decl.
61.40	Dry ravine 15 lks. wide course N.E. asc.
69.00	Mop of sand ridge bears N.E. and S.W. decl.
76.15	Dry ravine 15 lks. wide course N.E. asc.
80.00	Set an iron post, 3 ft. long 2 in. in diam. 24 ins. in the ground for cor. of secs. 17, 18, 19 and 20. marked on brass cap. T 30 N. S 18 in N.W. R 13 E S 17 in N.E. S 20 in S.E. and S 19 in S.W. quadrants. Dig pits 18x18x12 ins. in each sec. 5½ ft. deep and raise a mound of earth 4 ft. base, 2 ft. high W. of cor. Land broken and hilly. Soil sandy and clayey 3rd and 4th rate. No timber

Note:- At this cor. I set off.  $8^{\circ}08'2''$  S. on the decl. arc  
and at noon observed the sun on the meridian  
and obtain a reading of  $35^{\circ}59'2''$  N. on the lat.  
arc.

40.00	East, on a random line, betw. secs. 17 and 20, Set temp. $\frac{1}{4}$ sec. cor.
80.02	Westerly N. and S. line 8 lks. S. of the cor. of sec. 16, 17, 20, and 21, <sup>hereinbefore described</sup> then I run, S 89° 57' W., in a true line, betw. secs. 17 and 20, Across East slope over hilly sandy land through scattering sage and greenwood brush undergrowth and bunch grass.
17.00	Mop of sand ridge bears N.E. and S.W. decl.
39.00	Dry ravine 20 lks. wide course North asc.
40.01	Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap $\frac{1}{4}$ S 17 on N. half. and S 20 on S. half. Dig pits 18x18x12 ins. E and W. of post 3 ft. deep and raise a mound of earth 3½ ft. base, $\frac{1}{2}$ ft. high. N. of cor.
40.40	A deserted Indian Hogan bears S. 140 lks. dist.
40.50	Mop of sand ridge bears N. and S. decl.
51.75	Dry ravine 15 lks. wide course North asc.
62.30	Mop of sand ridge bears N. and S. decl.

## Subdivision of Twp 30 N., R13 E.

BOOK 2618

- 72.65 Ravine, 30 lbs wide, course North. asc.  
80.02 Th cor. of secs. 17, 18, 19, and 20, hereinbefore described.  
Land hilly and broken.  
Soil sandy 3<sup>rd</sup> rate.  
No timber
- 
- N. 89° 53' W., on a random line, bet. secs. 18 and 19,  
40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
79.60 Intersect 3<sup>rd</sup> Guide Meridian East. 5 lbs. S. of  
the cor. of secs. 18, 19 and 24, recently estab. by me  
as described in Standard Book "S", thence 1 run,  
N. 89° 51' E., on a true line, bet. secs. 18 and 19,  
Descend N.E. slope over hilly sandy and stony land  
through scattering sage and juniper brush  
undergrowth and bunch grass.  
3.05 Dry ravine 15 lbs wide 20 ft. below cor. Course N.E.  
asc.  
8.60 Top of sand ridge bears N. and S. due.  
28.50 Dry ravine 10 lbs. wide course N.E. asc.  
31.85 Top of clay ridge bears N.E. and S.W. due.  
32.60 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.  
which. falls on solid sand stone ledge in  
bottom of canyon, marked on back esp.  
T30 N., R13 E. in N. half. S18., S19 in W. half and  
W.C.  $\frac{1}{4}$  in E. half.  
Raise a mound of stone 2 ft. base. 1 $\frac{1}{2}$  ft. high. N.  
of cor. Its impracticable.  
32.90 West edge of Canyon on sand stone ledge 30  
ft. high bears N and S. descend abruptly.  
39.60 Dry ravine in bottom of canyon course North  
asc. abruptly. Point for  $\frac{1}{4}$  sec. cor.  
47.50 Top of abrupt ascent on sand stone ledge 30  
ft. high. E. side of canyon, bears N. and S. asc.  
steep W. slope of sand ridge.  
66.65 Top of sand ridge bears N and S. desc. steeply.  
79.60 Th cor. of secs. 17, 18, 19, and 20, hereinbefore described.  
Land broken and hilly.  
Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.  
No timber

February 28<sup>th</sup> 1911

February

## Subdivision of Mp 30 N., R 13 E.

41

- March 1<sup>st</sup> 1911: Ab. 7<sup>h</sup> 18<sup>m</sup> a.m. l.m.t. Dch off.  
 $35^{\circ} 59' \frac{1}{2}' N.$  ov the lat. arc.  $7^{\circ} 48\frac{1}{2}' S.$  ov the decl. arc.  
 and determine a meridian with the solar ab.  
 the cor. of secs. 17, 18, 19, and <sup>hereinbefore described</sup> 20, <sup>hereinbefore described</sup> three Drums,  
 $N. 0^{\circ} 03' W.$ , bet. secs. 17 and 18,  
 around S.E. slope over hilly sandy and stony land  
 through scattering sage and greasewood brush  
 undergrowth and bunch grass.
- 37.00 Roof of sand ridge bears  $N 40^{\circ} E$  and  $S 40^{\circ} W$ .  
 decl. N.W. slope.
- 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 ov  
 brass cap  $\frac{1}{4}$  S 18 ov W. half and S 17 ov 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.
- 53.90 South edge of canyon bears E and W. due abruptly  
 over sandstone cliffs.
- 58.00 Roof of terrace in canyon course N.W. are abruptly  
 79.26 Roof of abrupt ascent ov rim of canyon bears  
 N.W. and S.E. are gradually.
- 80.00 Set an iron post 3 ft. long 2 in. in diam. 24  
 in. in the ground for cor. of secs. 7, 8, 17, and  
 18. marked ov brass cap. + 30 N. 87 in N.W. R 13 E.  
 38 in N.E. S 17 in S.E. and S 18 in S.W. quadrant.  
 Raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high.  
 W. of cor. Pits impracticable  
 Land broken and hilly.  
 Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rates  
 No timber
- 
- W. 89° 57' E, ov a random line, bet. secs. 8 and 17,  
 40.00 Dch temp.  $\frac{1}{4}$  sec. cor.
- 79.92 Datereech N. and S. line 12 lbs. N. of the cor. of  
 secs. 8, 9, 16, and <sup>hereinbefore described</sup> 17, <sup>hereinbefore described</sup> three Drums,  
 W. 89° 58' W, ov a true line, bet. secs. 8 and 17,  
 around E. slope over stony hilly and broken land.  
 through scattering sage and greasewood brush  
 undergrowth and bunch grass
- 7.90 Roof of abrupt ascent ov sandstone rim rock.  
 West side of canyon, are gradually E slope of.

- of sand ridge  
 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 8 on N. half and 817 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.  
 Note:- At this cor. I set off.  $7^{\circ}46'3''$  on the decl. arc.  
 and at noon observe the sun on the meridian  
 and obtain a reading of.  $36^{\circ}00'$  N. on the lat.  
 arc.  
 70.00 Top of sand ridge bears N.E. and S.W. decl.  
 gradually over N.W. slope.  
 79.92 The cor. of secs. 7, 8, 17, and 18, hereinbefore described.  
 Land broken and hilly.  
 Soil sandy and stony  $3^{\text{rd}}$  and  $4^{\text{th}}$  rate.  
 No timber

- $N89^{\circ}51'W.$  on a random line bet. secs. 7 and 18  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 79.56 Intersect the <sup>3<sup>rd</sup> Guide Meridian East. Elkh. N. of</sup>  
<sup>recently estab. by me as described in Standard Book "S"</sup>  
 the cor. of sec'd. 7, 12, 13, and 18 thence to run,  
 $S89^{\circ}34'E$  on a true line bet. secs. 7 and 18  
 Ascend N.W. slope over hilly land, through scattering  
 sage and greasewood brush undergrowth and  
 bunch grass.  
 11.00 Begin abrupt ascent over bluff 150 ft. high.  
 bears N. and S.  
 15.00 Top of Bluff. Leave hilly land bears N. and S.  
 Enter rolling sandy land.  
 39.56 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 N. half and 818 on S. half.  
 Raise a mound of stone 2 ft. base.  $1\frac{1}{2}$  ft. high. N.  
 of cor. Pits impracticable.  
 46.35 West edge of Canyon bears N.W. and S.E., Leaves  
 rolling sandy land bears N.W. and S.E. Enters  
 stony broken land. descented abruptly.  
 60.00 Bottom of Canyon. Cross. named Coulter N.E. arc.  
 77.40 Top of abrupt ascent on E. edge of canyon bears  
 N. and S.E. arc. gradually.  
 79.56 The cor. of secs. 7, 8, 17, and 18, hereinbefore described.

Claims

## Subdivision of Twp 30 N., R13 E.

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Land rolling, hilly, and broken.  
Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.  
No timber

- W. 003 W., bet secs. 7 and 8,  
descend N.W. slope over sandy land, through  
scattering sage and greasewood brush under-  
growth and bunch grass.
- 30 South edge of canyon bears N.E. and S.W., desc.  
abruptly over broken stony N.W. slope into canyon
- 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 57 on W. half and 88 on E. half.  
Raise a mound of stone 2 ft. base, 1 1/2 ft. high.  
W. of cor. Pilis impracticable
- 40.40 Top of steep rocky descent in canyon. Leave  
broken land bears N.E. and S.W. Enter rolling  
bottom land. Cross dry ravine to the wide course N.E.
- 48.65 Leave rolling land bears N.E. and S.W. Enter broken  
stony land. Ascend abruptly over S.E. slope.
- 55.00 Top of rocky spur 150 ft. above bottom of canyon  
bear N 40° E. and S 40° W. desc. abruptly.
- 71.00 Dry ravine 125 ft. below top of spur. course  
N 45° E. ascend.
- 79.75 Top of rocky ridge bears N.E. and S.W. desc. very  
abruptly.
- 80.00 The point for cor. of secs. 5, 6, 7, and 8. falls on  
unseal ground on steep N. slope of ridge. therefore  
I return to top of ridge and at.
- 79.75 Set an iron post. 3 ft. long 2 ins. in diam. 24  
ins. in the ground for vertices cor. to cor. of  
secs 5, 6, 7 and 8. marked on brass cap. W.C.  
in N. half. T30 N. 36 in N.W., R13 E. 35 in N.E.  
88 in S.E. and 87 in S.W. quadrants.
- Raise a mound of stone 2 ft. base, 1 1/2 ft. high.  
W. of cor. Pilis impracticable
- Land rolling hilly and broken  
Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.  
No timber

March 1<sup>st</sup> 1911

Subdivision of N<sup>o</sup> 30 N. R 13 E.

BOOK 2618

- March 2<sup>nd</sup> 19<sup>11</sup> A.M. 8<sup>h</sup> 14<sup>m</sup> a.m. L.W.L. & set off.  
 36° 01' N. on the lat. arc. 7° 26' 8" on the decl. arc and  
 determine a meridian with the solar <sup>at</sup> the first for  
 Cor. of secs. 5, 6, 7, and 8, <sup>on steep N. slope</sup> thence down,  
 S. 89° 58' E., on a random line, bet. secs. 5 and 8,  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 80.10 Dateriech N. and S. line, 35 lks. S. of the witness  
 Cor. to Cor. of secs. 4, 5, 8, and <sup>hereinbefore described</sup> 7, <sup>From true point for corner</sup> thence down,  
 S. 89° 58' W., on a true line, bet. secs. 5 and 8,  
 Ascend East slope over stony and clayey land through  
 scattering sage and greasewood brush undergrowth  
 and bunch grass.
- 4.20 Top of clay ridge 25 ft. above cor. bears N. and S.  
 dec. abruptly.
- 29.20 Dry ravine 100 ft. below top of ridge course N 25° E  
 dec. abruptly
- 37.30 Top of clay ridge bears N. and S. dec.
- 40.05 Set an iron post 3 ft. long. 1 in. in diam. 26 ins.  
 in the ground for  $\frac{1}{4}$  sec. cor. marked on base  
 Cap  $\frac{1}{4}$  35 on N. half and 38 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. bare,  $1\frac{1}{2}$  ft.  
 high N. of cor.
- 53.15 Mound of abrupt descent 75 ft. below  $\frac{1}{4}$  sec. cor., low  
 hilly land bears N. and S. Enter rolling sandy  
 bottom land bears N. and S. Course dry ravine course N.E.
- 64.00 Dry ravine  $2\frac{1}{2}$  lks. wide course N.E.
- 65.00 Enter rolling sandy land bears N.E. and S.W.  
 Ascend stony hilly land.. Ascend steep rocky  
 S.E. slope.
- 80.10 True point for cor. of secs. 5, 6, 7, and 8, on steep North slope.  
 Land rolling, hilly, and broken.  
 Soil sandy, and stony  $3^{\text{rd}}$  and  $4^{\text{th}}$  ratio.  
 No timber
- 
- From true point for cor. of secs. 5, 6, 7, and 8, & run,  
 N. 89° 54' W., on a random line, bet. secs. 6 and 7,  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 79.38 Dateriech the 3<sup>rd</sup> Guide Meridian East. 14 lks. S.  
 of the Cor. of secs. 1, 6, 7, and 12, thence down,  
 S. 89° 48' E., on a true line, bet. secs. 6 and 7,  
 Ascend steep W. slope over broken stony land  
 through scattering sage and greasewood brush

Chains

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- undergrowth and bunch grass
- 28.00 Begin ascent over E. wall of canyon
- 31.35 Top of abrupt ascent over wall of canyon 150 ft. high. bears N. and S., are gradually.
- 39.38 Set av 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 60W N. half and S 70W 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.
- 53.00 West edge of canyon bears N.E. and S.W. desc. abruptly over cliffs and ledges.
- 70.30 Bottom of canyon 150 ft. deep Cross dry ravine 25 lbs. wide course N.E.. ascend abruptly over N.W. slope
- 79.38 True point for cor. of secs. 5, 6, 7 and 8, on steep North slope.  
Land broken and hilly.  
Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rates.  
No timber

Note:- At this cor. I set off  $7^{\circ}23'8$ . on the decl. arc and at noon observe the sun on the meridian and obtain a reading of  $36^{\circ}0'1''N.$  on the lat. arc.

W $0^{\circ}03'$  W. on a random line bet. secs. 5 and 6.

- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 80.18 Intersect N. bdry. of M<sup>l</sup> 10 lbs. N. 89°57'E. of the cor. of secs. 5, 6, 31. and 32, <sup>recently estab. by me as described in</sup> Exterior Book "A0", thence 1 run, S. 0°07'E, on a true line, bet. secs. 5 and 6, ascend gentle N.W. slope over rolling sandy land, through sage and greasewood brush undergrowth and bunch grass.
- 40.18 Set av 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 60W W. half. and S 50W 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.
- 45.20 Top of sand ridge bears N.E. and S.W., Least rolling land bears N.E. and S.W. Enter hilly, stony land. desc. S.E. slope of ridge.

## Subdivision of Mp 30 N., R 13 E.

Claim

BOOK 2618

55.88	North edge of canyon. Bear $740^{\circ}$ E. and $340^{\circ}$ W. descend abruptly over cliffs and ledges.
62.50	Dry ravine in bottom of canyon. Bear N.E. are.
78.00	Top of abrupt arenk on sand stone rim rock on South edge of canyon bear $760^{\circ}$ W. and $360^{\circ}$ E. Ascend steep rocky N. slope of ridge
80.18	Tree growth for col. of sec. 5, 6, 7, and 8, on step. North slope. Land rolling hilly and broken Soil sandy and stony 3rd and 4th rate. No timber

March 2nd 1911

## General Description

The land contained in this township is very rough, broken, and hilly with very little level land.

The township is cut by numerous deep canyons with sharp clay ridges between the sides of which are very abrupt and difficult of ascent.

The soil over the major portion of the township is very poor and can nearly all be classed as third and fourth rate.

The tops of the ridges and the mesal land in the northeastern and south western parts of the township is covered with a good growth of bunch grass, but on the steep slopes of the ridges and canyon sides very little vegetation of any kind is found.

In sections 3 and 4 there is a small amount of level land which is being farmed by the Indians, with poor success.

There is no timber or water in the township.

Lime and sandstone ledges are found in many places in the township, but the stone is of such a nature that it disintegrates when exposed to the air.

No mineral was found in the township although from surface indications, I think it quite probable that extensive coal beds underlie a large portion of the

T. 30 N. R. 13 E.

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rough bark of the township  
There is one family of Navajo Indians residing  
in section 20.

Van L. White  
U.S. Marshall

Mar. 2 - 1911

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

BOOK 2618

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 30 N. R. 13 E., of the G. & S. P. B. & M. Arizona.

showing the respective capacities in which they acted:

T. Y. White, Chainman.

Richard L. Shumway, Chainman.

George B. Sieg, Moundman.

Harry Keyope, Moundman.

Nelson Polacco, Axman.

 , 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 30 N. R. 13 E.

of the Gila and Salt River Basins and 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 executed ~~surveyed~~, and the corner monuments established, according to the instructions furnished by the United States Surveyor General Commissioner of the General Land Office

T. Y. White, Chainman.

Richard L. Shumway, Chainman.

George B. Sieg, Moundman.

Harry Keyope, Moundman.

Nelson Polacco, Axman.

 , Axman.

William R. Carson, Flagman.

Subscribed and sworn to before me this 15<sup>th</sup>

day of May, 19 11



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Van L. White  
U.S. Transitman

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

TRANSITMAN

I, Van L. White, U.S. Transitman, United States Deputy Surveyor, do solemnly swear that, in pursuance of ~~a contract received from the Commissioner of the General United States Surveyor General for Land Office~~, bearing date of the ~~2nd day of Oct. 1907 and the 15<sup>th</sup> day of May~~, 1908, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the ~~United States Surveyor General for Land Office~~, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of ~~the Subdivision lines of Township No. 30 North, of Range No. 13 East~~ of the ~~Gila and Salt River Base and Meridian, in the Territory of Arizona~~.

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 General for Land Office~~ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Van L. White

United States Deputy Surveyor

Transitman

Subscribed by said Van L. White, and sworn to before me

this 27<sup>th</sup> day of December, 1912



Dyton R. Baylor,

U.S. Commissioner

at Las Cruces, N.M.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona APR 25

, 1914

The foregoing field notes of the survey of ~~the~~

Subdivision lines of

Township No 30 North - Range No 13 East

of the

Gila and Salt River Base and Meridian, Arizona.

executed by VAN L. WHITE, U.S. Transitman, under Special Instructions

~~executed by~~ from the Commissioner of the General Land Office

under his contract No. \_\_\_\_\_, dated October 2, 1907 and May 15, 1908, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank D. Ingalls

United States Surveyor General.  
SURVEYOR-GENERAL OF ARIZONA.

I certify that the foregoing transcript of the field notes of the above described surveys in

, has been correctly copied from the original notes on file in this office.

United States Surveyor General.