

*Field Comparison*

~~Book No. 7~~

No-256

# FIELD-NOTES

BOOK 256

OF

The *Subdivision* ..... Lines of  
Township *16 North* .....  
Range *30 East* .....  
..... *Gila and Salt River Meridian, Arizona.*

BY

*O. D. Wheeler* Deputy Surveyor,

under his contract of *July 17<sup>th</sup>* 1882.

Survey commenced *April 5<sup>th</sup>* 1883.

Survey completed *April 12<sup>th</sup>* 1883.

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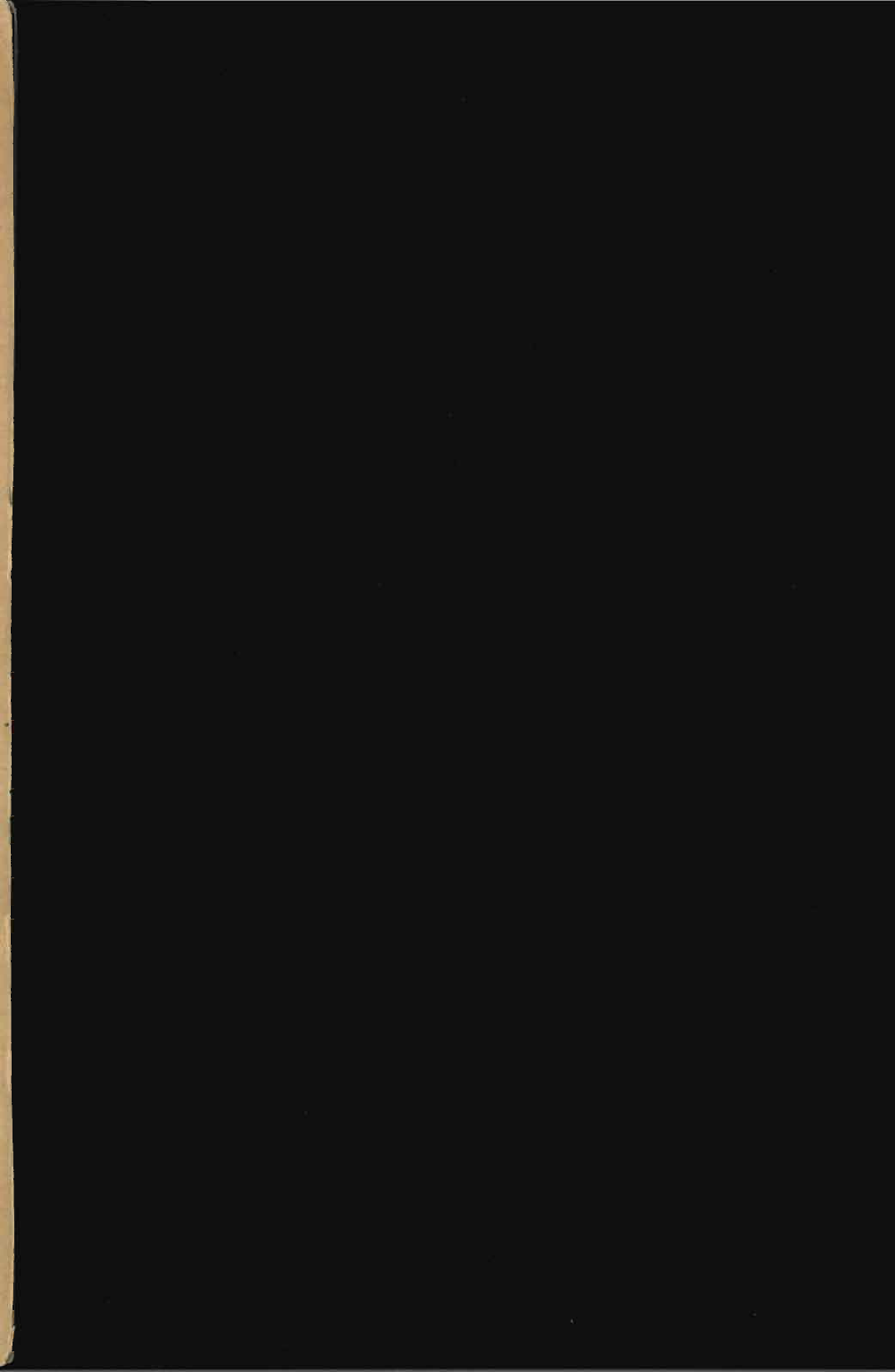
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1A Township 16 North, Range 30 East.  
 Gila and Salt River Meridian.

BOOK 256

6	5	4	3	2	1					
7	50	8	37	9	28	10	19	11	9	12
49	48	36	27	18	8					
18	47	17	35	16	26	15	17	14	7	13
46	45	34	25	16	6					
19	44	20	33	21	24	22	15	23	5	24
43	42	32	23	14	4					
30	41	29	31	28	22	27	13	26	3	25
40	39	30	21	12	2					
31	38	32	29	33	20	34	11	35	1	36

For preliminary notes and  
description of instrument used  
see book No. 1

## BOOK 256

*Library notes and parts Patent Improved Solar  
Compass, nearly new, and in first rate order. Made  
by Otto Foucault, of Cassel,  
Germany in 1881.*

*Before proceeding to subdivide this Tp., I made a  
change of 5 minutes in the latitude arc of my  
solar compass by subtracting same from  
the reading previously given, and at noon verified  
and corrected same by observation on the sun. I also  
further tested instrument by reversing.*

T. 16 N. R. 30 E. G. &amp; S. R. M.

No-256

Chains.

From the corner to sections, 1, 2, 35<sup>th</sup> & 36, on  
 South boundary of Township, which is  
 a post, set firmly in the ground,  
 marked T. 16 N., S. 36 on N. E.;  
 R. 30 E., S. 1 on S. E.; T. 15 N., S. 2 on S. W.,  
 and S. 35 on N. W. faces, with 1 notch  
 on E. <sup>th</sup> & 5 notches on W. edges,  
 with spits in each sec., 5<sup>1/2</sup> ft. dist,  
 and a mound of earth, in good  
 order, around post, I run  
 North between sections 35<sup>th</sup> and 36.

Variation 14° 00' East.

Ascend.

40.00 Set a post 3 ft. long. 3 ins. diam. with marked stone  
 12 ins. in the ground, for  $\frac{1}{2}$  Sec. Cor., marked  $\frac{1}{2}$  S. on  
 W. face, dug pits, 18 x 18 x 12 ins., N. and S. of  
 post 5 $\frac{1}{2}$  ft. dist., and raised a mound of earth 1 $\frac{1}{2}$  ft.  
 high, 3 $\frac{1}{2}$  ft. base around post.

80.00 Set a post 4 ft. long. 4 ins. square, with marked stone  
 12 ins. in the ground, for Cor. to Secs, 25, 26, 35<sup>th</sup> & 36,  
 marked T, 164. S, 25, on N, E, R, 30 E, S. 36  
 on S, E, S, 35 on S, W, and S, 26 on N, W, face,  
 with 1 notch on S, and 1 notch on E, edges,

T. 16 N. R. 30 E. G. &amp; S. R. M.

## Chains.

dug pits 18 x 18 x 12 ins, in each Sec., 5½ ft. dist.,  
and raised a mound of earth 2 ft. high, 4 ½ ft. base  
around post.

Land rolling.

Soil 2<sup>nd</sup> rate

Vegetation, *uncareless*.

East. on a random line between sections 25 & 36.

Variation 14° 21' East.

Descend.

40.00 Set temporary ½ Sec. Cor.

80.16 Intersect ~~E.~~ B. of Tp. 51 1/2 kls. North of cor. to secs.  
*previously set by me*  
25, 30, 31 & 36 from which corner, I run

N. 89° 38' W. on a true line between sections 25 & 36.

Variation 14° 19' East

40.08 Set a post 3 ft. long. 3 ins. diam. with marked stone  
12 ins. in the ground, for ½ Sec. Cor., marked ½ S. on  
N. face, dug pits, 18 x 18 x 12 ins., E. and W. of  
post 5½ ft. dist., and raised a mound of earth 1½ ft.  
high, 3½ ft. base around post.

80.16 The corner to sections 25, 26, 35 & 36.

T. 16 N. R. 30 E. G. &amp; S. R. M.

## Chains.

Land rolling.

Soil 2<sup>nd</sup> rate

Vegetation, bunchgrass.

North between sections 25<sup>th</sup> & 26.Variation  $1/4^{\circ} 21'$  East.

Ascend.

21.50 Top of Ridge, bears  $N. 80^{\circ} E.$  and descend.

40.00 Set a lava stone  $14 \times 11 \times 9$  ins., 9 ins. in the ground, for  $\frac{1}{4}$  Sec. Cor., marked  $\frac{1}{4}$  on W. face, dug pits  $18 \times 18 \times 12$  ins., N and S. of stone  $5\frac{1}{2}$  ft. dist., and raised a mound of earth  $1\frac{1}{2}$  ft. high,  $8\frac{1}{2}$  ft. base alongside.

30.00 Set a sand stone  $12 \times 11 \times 10$  ins. 8 ins. in the ground for Cor. to Secs. 23, 24, 25 & 26 marked with 2 notches on S. and 1 notch on E. edges, dug pits  $18 \times 18 \times 12$  ins. in each Sec.,  $5\frac{1}{2}$  ft. dist. and raised a mound of earth 2 ft. high,  $4\frac{1}{2}$  ft. base. alongside.

Land mountainous.

Soil 3<sup>rd</sup> rate

Vegetation, bunchgrass.

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T. 16 N. R. 30 E. G. & S. R. M.

Chains.

East. on a random line between sections 24 & 25.

Variation  $14^{\circ} 21'$  East.

Ascend.

40.00 Set temporary  $\frac{1}{4}$  Sec. Cor.

80.37 Intersect E.B. of Tp. 8 lks. ~~North~~ of cor. to secs.  
19, 24, 25 <sup>previously set by me</sup> from which corner, I run

N.  $89^{\circ} 57' 4''$  on a true line, between sections 24 & 25.

Variation  $14^{\circ} 19'$  East.

40.18 Set a post 3 ft. long. 3 ins. diam. with marked stone  
12 ins. in the ground, for  $\frac{1}{4}$  Sec. Cor., marked  $\frac{1}{4}$  S. on  
N. face, dug pits, 18 x 18 x 12 ins., E. and W. of  
post  $5\frac{1}{2}$  ft. dist., and raised a mound of earth  $1\frac{1}{2}$  ft.  
high,  $3\frac{1}{2}$  ft. base around post.

80.37 The corner to sections 23, 24, 25 & 26,

Land rolling.

Soil 2<sup>nd</sup> rate

Vegetation, bunch grass.



T. 16 N. R. 30 E. G. &amp; S. R. M.

## Chains.

North between sections 23<sup>rd</sup> & 24.Variation  $14^{\circ} 21'$  East.

Descend.

40.00 Set a sandstone  $12 \times 10 \times 6$  ins., 8 ins. in the ground, for  $\frac{1}{4}$  Sec. Cor., marked  $\frac{1}{4}$  on W face, dug pits  $18 \times 18 \times 12$  ins., N. and S. of stone  $5\frac{1}{2}$  ft. dist., and raised a mound of earth  $1\frac{1}{2}$  ft. high,  $3\frac{1}{2}$  ft. base alongside.

41.50 Cross low Sag and ascend.

80.00 Set a sand stone  $12 \times 11 \times 7$  ins. 8 ins. in the ground for Cor. to Secs. 13, 14, 23-24, marked with 3 notches on S. and 1 notch on E. edges, dug pits  $18 \times 18 \times 12$  ins. in each Sec.,  $5\frac{1}{2}$  ft. dist. and raised a mound of earth 2 ft. high,  $4\frac{1}{2}$  ft. base. alongside.

Land rolling.

Soil 2<sup>nd</sup> rate

Vegetation, bunchgrass.

## Chains.

East. on a random line between sections 13 & 24.

Variation  $14^{\circ} 21'$  East.

Descend.

18.50 Cross Gulch, 10 lks. wide, Course N. and ascend.

40.00 Set temporary  $\frac{1}{4}$  Sec. Cor.

Sp. 23 Intersect E. B. of Tp. 14 lks. East of cor. to secs.

<sup>previously set by me.</sup>  
13, 18, 19 & 24 from which corner, I run

S.  $89^{\circ} 54' W.$  on a true line, between sections 13<sup>rd</sup> & 24.

Variation  $14^{\circ} 19'$  East.

40.11 Set a post 3 ft. long. 3 ins. diam. with marked stone  
12 ins. in the ground, for  $\frac{1}{4}$  Sec. Cor., marked  $\frac{1}{4}$  S. on  
N. face, dug pits, 18 x 18 x 12 ins., E. and W. of  
post  $5\frac{1}{2}$  ft. dist., and raised a mound of earth  $1\frac{1}{2}$  ft.  
high,  $3\frac{1}{2}$  ft. base around post.

Sp. 23 The corner to sections 13, 14, 23<sup>rd</sup> & 24.

Land rolling.

Soil 2<sup>nd</sup> rate

Vegetation, bunchgrass.

April 5<sup>th</sup> 1883.

## T. 16 N. R. 30 E. G. &amp; S. R. M.

## Chains.

North between sections 13<sup>rd</sup> & 14.

Variation  $14^{\circ} 21'$  East.

Descend.

40.00 Set a lava stone  $18 \times 14 \times 10$  ins., 12 ins. in the ground, for  $\frac{1}{4}$  Sec. Cor., marked  $\frac{1}{4}$  on W. face, dug pits  $18 \times 18 \times 12$  ins., N. and W. of stone  $5\frac{1}{2}$  ft. dist., and raised a mound of earth  $1\frac{1}{2}$  ft. high,  $3\frac{1}{2}$  ft. base alongside.

74.30 Cross Wash, 10 lks. wide, Course N. 60° W and ascend.

80.00 Set a sand stone  $13 \times 11 \times 9$  ins. 9 ins. in the ground for Cor. to Secs. 11, 12, 13 & 14, marked with H notch on S. and J notch on E. edges, dug pits  $18 \times 18 \times 12$  ins. in each Sec.,  $5\frac{1}{2}$  ft. dist. and raised a mound of earth 2 ft. high,  $4\frac{1}{2}$  ft. base alongside.

Land rolling.

Soil 2<sup>nd</sup> rate

Vegetation, bunchgrass.

T. 16 N. R. 30 E. G. &amp; S. R. M.

## Chains.

East. on a random line between sections 12 &amp; 13.

Variation  $14^{\circ} 21'$  East.

Ascend.

25.00 Top of Spur, bears N.E. and descend.

34.00 Cross Gulch, 10 lks. wide, Course S.W. and ascend.

40.00 Set temporary  $\frac{1}{4}$  Sec. Cor.

79.81 Intersect E. B. of Tp. 30 lks. S. of cor. to secs.

<sup>previously set by me</sup>  
7, 12, 13 & 18 from which corner, I run $S. 87^{\circ} 47' W.$  on a true line, between sections 12 & 13.Variation  $14^{\circ} 19'$  East.

89.90 Set a sand stone  $16 \times 10 \times 6$  ins., 11 ins.  
in the ground, for  $\frac{1}{4}$  Sec. Cor., marked  $\frac{1}{4}$  on N. face,  
dug pits  $18 \times 18 \times 12$  ins., E. and W. of stone  $5\frac{1}{2}$   
ft. dist., and raised a mound of earth  $1\frac{1}{2}$  ft. high,  $8\frac{1}{2}$   
ft. base alongside.

79.81 The corner to sections 11, 12, 13 &amp; 14.

Land rolling.

Soil 2<sup>nd</sup> rate

Vegetation, bunchgrass.

## T. 16 N. R. 30 E. G. &amp; S. R. M.

## Chains.

North, on a true line between sections 11<sup>and</sup> 12,

Va. 14° 21' East.

Ascend.

P. 00 Top of Spur, bears E, and descend.

40.00 Set a Sand stone 12 x 10 x 9 ins., 8 ins.  
in the ground, for  $\frac{1}{4}$  Sec. Cor., marked  $\frac{1}{4}$  on W face,  
dug pits 18 x 18 x 12 ins., N and S. of stone  $5\frac{1}{2}$   
ft. dist., and raised a mound of earth  $1\frac{1}{2}$  ft. high, 8  
ft. base alongside.

60.70 Cross Wash, 8 lks. wide, Course S.W. and ascend.

79.30 Intersect the 4<sup>th</sup> Standard Parallel North, at a  
point 1.98 chs. East of the Standard Cor. to  
Secs. 35 and 36. T. 17 N. R. 30 E.,

which is a baral stone, set  
firmly in the ground, marked  
N. E. with 1 notch on E,  
and 5 notches on W. edges;  
with pits, N., E. and W. of  
stone,  $5\frac{1}{2}$  ft. dist., and  
with an earth mound of  
proper size, in good order,  
along side, and

T. 16 N. R. 30 E. G. 1 &amp; S. R. M.

## Chains.

Set a post, 4 ft. long, 4 ins. square, <sup>with marked stem</sup> 12 ins. in the ground, for <sup>blowing</sup> Cor. to Secs. 11 and 12 marked G. G. T. 16 N. R. 30 E., on S. S. 12 on E. and S. 11 on W. faces, with 1 notch on E. and 5 notches on W. faces, dug pits 18 x 18 x 12 ins. E. & W. of post, 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base around post.

Land rolling.

Soil 2<sup>nd</sup> rateVegetation, *Cuneogmus*.

## T. 16 N. R. 30 E. G. &amp; S. R. M.

## Chains.

From the corner to sections, 2, 3, 34<sup>th</sup> and 35, on  
 S. boundary of T<sub>p</sub>, which is a post,  
 set firmly in the ground, marked  
 T. 16 N., S. 35 on N. E.; R. 30 E., S. 3 on S. E.;  
 T. 15 N., S. 3 on S. W. and S. 34 on N. W. faces,  
 with 2 notches on E. and 4 notches on W.  
 edges; with pits in each sec., 5 ft.  
 dist., and a mound of earth, in  
 good order, around post. 3 m  
 North between sections 34<sup>th</sup> and 35.

Variation 14° 00' East.

## Ascend.

40.00 Set a sand stone 14 x 12 x 7 ins., 7  
 ins. in the ground, for  $\frac{1}{4}$  Sec. Cor., marked  $\frac{1}{4}$  on W.  
 face, and raised a mound of stone alongside. Pits  
 impracticable.

75.00 Top of Ridge, bears N. 50° E. and descend.

80.00 Set a sand stone 12 x 10 x 6 ins. 8 ins. in  
 the ground for Cor. to Secs. 26, 27, 34<sup>th</sup> and 35, marked  
 with 1 notch on S. and 2 notches on E. edges and  
 raised a mound of stone alongside. Pits impracticable.

Land mountainous.

Soil 2<sup>nd</sup> rate

Vegetation, bunchgrass.

## T. 16 N. R. 20 E. G. &amp; S. R. M.

Chains.

East. on a random line between sections 26 & 35.

Variation  $14^{\circ} 21'$  East.

Ascend.

7.50 Top of Ridge, bears  $N. 80^{\circ} E.$  and descend.

40.00 Set temporary  $\frac{1}{4}$  Sec. Cor.

79.62 Intersect N. & S. line, 14 lks. South of cor. to secs.

25, 26, 35 & 36 from which corner, I run

$S. 89^{\circ} 54' W.$  on a true line between sections 26<sup>th</sup> & 35.

Variation  $14^{\circ} 21'$  East

39.81 Set a post 3 ft. long. 3 ins. diam. with marked stone  
12 ins. in the ground, for  $\frac{1}{4}$  Sec. Cor., marked  $\frac{1}{2}$  S. on  
N. face, dug pits, 18 x 18 x 12 ins., E. and W. of  
post  $5\frac{1}{2}$  ft. dist., and raised a mound of earth  $1\frac{1}{2}$  ft.  
high,  $3\frac{1}{2}$  ft. base around post.

79.62 The corner to sections 26, 27, 34<sup>th</sup> & 35.

Land mountainous.

Soil  $2^{nd}$  rate

Vegetation, bunch grass



T. 16 N. R. 30 E. G. &amp; S. R. M.

## Chains.

North between sections 26 and 27.

Variation  $14^{\circ} 21'$  East.

Descend.

40.00 Set a post 3 ft. long, 3 ins. diam. with marked stone  
12 ins. in the ground, for  $\frac{1}{4}$  Sec. Cor., marked  $\frac{1}{4}$  S. on  
W. face, dug pits, 18 x 18 x 12 ins., N. and S. of  
post  $5\frac{1}{2}$  ft. dist., and raised a mound of earth  $1\frac{1}{2}$  ft.  
high,  $3\frac{1}{2}$  ft. base around post.

80.00 Set a post 4 ft. long, 4 ins. square, with marked stone  
12 ins. in the ground, for Cor. to Secs, 22, 23, 26 & 27,  
marked T, 16 N. S, 23, on N, E, R, 30 E, S. 26  
on S, E, S, 27 on S, W, and S, 22 on N, W, faces  
with 2 notch  $\infty$  on S, and 2 notch  $\infty$  on E, edges,  
dug pits 18 x 18 x 12 ins. in each Sec.,  $5\frac{1}{2}$  ft. dist.,  
and raised a mound of earth 2 ft. high,  $4\frac{1}{2}$  ft. base  
around post.

Land rolling.

Soil 2<sup>nd</sup> rate

Vegetation, bunchgrass.

Chains,

East. on a random line between sections 23 & 26.

Variation  $14^{\circ} 21'$  East.

Ascend.

40.00 Set temporary  $\frac{1}{4}$  Sec. Cor.

79.74 Intersect N. & S. line, 33 lks. ~~South~~ of cor. to secs.

23, 24, 25 & 26 from which corner, I run

S.  $89^{\circ} 46'$  W. on a true line between sections 23 <sup>and</sup> 26.

Variation  $14^{\circ} 21'$  East

39.87 Set a post 3 ft. long, 3 ins. diam. with marked stone  
12 ins. in the ground, for  $\frac{1}{4}$  Sec. Cor., marked  $\frac{1}{4}$  S. on  
N. face, dug pits, 18 x 18 x 12 ins., E. and W. of  
post  $5\frac{1}{2}$  ft. dist., and raised a mound of earth  $1\frac{1}{2}$  ft.  
high,  $3\frac{1}{2}$  ft. base around post.

79.74 The corner to sections 22, 23, 26 <sup>and</sup> 27.

Land rolling.

Soil 2<sup>nd</sup> rate

Vegetation, bunchgrass.

## T. 16 N. R. 30 E. G. &amp; S. R. M.

## Chains.

North between sections 22 <sup>and</sup> 23.

Variation  $14^{\circ} 21'$  East.

Descend.

38.00 Cross low Sag and ascend.

40.00 Set a post 3 ft. long. 3 ins. diam. with marked stone 12 ins. in the ground, for  $\frac{1}{4}$  Sec. Cor., marked  $\frac{1}{4}$  S. on  $\angle$  face, dug pits, 18 x 18 x 12 ins., N. and S. of post  $5\frac{1}{2}$  ft. dist., and raised a mound of earth  $1\frac{1}{2}$  ft. high,  $3\frac{1}{2}$  ft. base around post.

67.00 Top of Ridge, bears E. <sup>and</sup> W. and descend.

80.00 Set a sand stone 20 x 10 x 6 ins. 10 ins. in the ground for Cor. to Secs. 14, 15, 22 <sup>and</sup> 23 marked with 3 notch <sub>20</sub> on S. and 2 notch <sub>20</sub> on E. edges, dug pits 18 x 18 x 12 ins. in each Sec.,  $5\frac{1}{2}$  ft. dist. and raised a mound of earth 2 ft. high,  $4\frac{1}{2}$  ft. base. alongside.  
Land mountainous.

Soil 2<sup>nd</sup> rate

Vegetation, bunchgrasses.

I carefully examined the adjustments of my solar compass to-day, particularly the latitude and reversing apparatus, and found them correct.

April 6<sup>th</sup> 1883.

## T. 16 N. R. 30 E. G. &amp; S. R. M.

Chains.

East. on a random line between sections 14 & 23,

Variation  $14^{\circ} 21'$  East.

Descend.

40.00 Set temporary  $\frac{1}{4}$  Sec. Cor.

80.25 Intersect N. & S. line, 37 lks. South of cor. to secs.  
13, 14, 23 & 24 from which corner, I run  
 $S. 89^{\circ} 44' W.$  on a true line between sections 14 <sup>Q</sup> & 23,  
Variation  $14^{\circ} 21'$  East

40.12 Set a Sand stone  $14 \times 10 \times 6$  ins., 9  
ins. in the ground, for  $\frac{1}{4}$  Sec. Cor., marked  $\frac{1}{4}$  on N.  
face, and raised a mound of stone alongside. Pits  
impracticable.

80.25 The corner to sections 14, 15, 23 <sup>Q</sup> & 23.

Land rolling.

Soil 2<sup>nd</sup> rate

Vegetation, bunchgrass.

## T. 16 N. R. 20 E. G. &amp; S. R. M.

## Chains.

North between sections 14 and 15.

Variation  $14^{\circ} 21'$  East.

Descend.

40.00 Set a lava stone  $22 \times 10 \times 8$  ins., 16 ins. in the ground, for  $\frac{1}{4}$  Sec. Cor., marked  $\frac{1}{4}$  on W. face, and raised a mound of stone alongside. Pits impracticable.

52.20 Cross Wash, 8 lks. wide, Course S. W. and ascend.

80.00 Set a lava stone  $18 \times 16 \times 4$  ins. 12 ins. in the ground for Cor. to Secs. 10, 11, 14 & 15, marked with 4 notch  $\infty$  on S. and 2 notch  $\infty$  on E. edges and raised a mound of stone alongside. Pits impracticable.

Land rolling.

Soil 2<sup>nd</sup> rate

Vegetation, bunchgrass.

## T. 16 N. R. 30 E. G. &amp; S. R. M.

## Chains.

East, on a random line between sections 11 & 14.

Variation  $14^{\circ} 21'$  East.

Descend.

37.44 Cross Wash, 10 lks. wide, Course  $N. 70^{\circ} W$  and ascend.

40.00 Set temporary  $\frac{1}{4}$  Sec. Cor.

80.12 Intersect N. & S. line, 11 lks. ~~from~~ of cor. to secs.

11, 12, 13 & 14, from which corner, I run

$N. 89^{\circ} 55' W$ . on a true line between sections 11 & 14,

Variation  $14^{\circ} 21'$  East

40.06 Set a sand stone  $14 \times 10 \times 9$  ins., 9 ins.  
in the ground, for  $\frac{1}{4}$  Sec. Cor., marked  $\frac{1}{4}$  on  $N$  face,  
dug pits  $18 \times 18 \times 12$  ins., E. and W. of stone  $8\frac{1}{2}$   
ft. dist., and raised a mound of earth  $1\frac{1}{2}$  ft. high,  $8\frac{1}{2}$   
ft. base alongside.

80.12 The corner to sections 10, 11, 14 & N.

Land rolling.

Soil 2<sup>nd</sup> rate

Vegetation, bunch grass

## T. 16 N. R. 30 E. G. &amp; S. R. M.

Chains.

North on a true line between sections 10 <sup>also 11.</sup>Va.  $14^{\circ} 21'$  East.

Ascend.

40.00 Set a lava stone  $12 \times 12 \times 10$  ins., <sup>P</sup>  
 ins. in the ground, for  $\frac{1}{4}$  Sec. Cor., marked  $\frac{1}{4}$  on W.  
 face, and raised a mound of stone alongside. Pits  
 impracticable.

47.00 Top of Mesa, bear E.  $\frac{3}{4}$  W. and descend

77.62 Intersect the 4<sup>th</sup> Standard Parallel ~~North~~, at a  
 point 2.11 chs. East of the Standard Cor. to  
 Secs. 34 and 35. T. 17 N. R. 30 E.,

which is a sandstone set firmly  
 in the ground, marked S. E.  
 with 2 notches on E.  $\frac{3}{4}$  W. 4 notches  
 on W. edges; with pits N. E.  
 and W. of stone,  $5\frac{1}{2}$  ft. dist.,  
 and a mound of earth, in  
 good order, alongside, and

Set a sand stone  $14 \times 12 \times 6$  ins. 9 ins. in  
 the ground for Closing Cor. to Secs. 10 and 11  
 marked C. C. with 2 notches on E. and 4 notches on  
 W. edges, dug pits  $18 \times 18 \times 12$  ins. S. E., and W. of  
 stone,  $5\frac{1}{2}$  ft. dist., and raised a mound of earth 2 ft.

T. 16 N. R. 30 E. G. &amp; S. R. M.

Chains.

high,  $4\frac{1}{2}$  ft. base. alongside.

Land rolling.

Soil 2<sup>nd</sup> rate

Vegetation, brush & grass.

From the corner to sections, 3, 4, 33<sup>rd</sup> & 34, on  
S. boundary of township, which  
is a lava stone, set firmly in  
the ground, marked with 3  
notches on E. & W. edges; with  
pits in each sec.,  $5\frac{1}{2}$  ft. dist.,  
and a mound of earth, in good  
order, alongside, 3 run

North between sections 33<sup>rd</sup> & 34.

Variation  $14^{\circ} 05'$  East.

Ascend.

40.00 Set a Sand stone  $20 \times 18 \times 12$  ins.,  $\frac{1}{2}$   
ins. in the ground, for  $\frac{1}{4}$  Sec. Cor., marked  $\frac{1}{4}$  on W.  
face, and raised a mound of stone alongside. Pits  
impracticable.

65.00 Top of Ridge, bears  $N. 80^{\circ} E.$  and descend.



T. 16 N. R. 30 E. G. & S. R. M.

Chains.

80.00 Set a post 4 ft. long, 4 ins. square, with marked stone 12 ins. in the ground, for Cor. to Secs, 27, 28, 33<sup>W</sup> 34, marked T, 164. S. 27, on N, E, R, 30 E, S. 34 on S, E, S, 33 on S. W, and S, 28 on N, W, faces with 1 notch on S, and 3 notches on E, edges, dug pits 18 x 18 x 12 ins, in each Sec., 5 1/2 ft. dist., and raised a mound of earth 2 ft. high, 4 1/2 ft. base around post.

Land rolling.

Soil 2<sup>nd</sup> rate

Vegetation, bunchgrasses.

East. on a random line between sections 27 & 34.

Variation 14° 21' East.

Ascend.

40.00 Set temporary 1/2 Sec. Cor.

80.59 Intersect N. & S. line, 19 lks. South of cor. to secs. 26, 27, 34 & 35 from which corner, I run

S. 89° 52' W. on a true line between sections 27<sup>W</sup> & 34.

Variation 14° 21' East

40.29 Set a post 3 ft. long, 3 ins. diam. with marked stone 12 ins. in the ground, for 1/2 Sec. Cor., marked 1/2 S. on N. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5 1/2 ft. dist., and raised a mound of earth 1 1/2 ft.

T. 10 N. R. 30 E. G. & S. R. M.

Chains.

high, 3 1/2 ft. base around post.

80.57 The corner to sections 27, 28, 33 and 34.

Land rolling.

Soil 2<sup>nd</sup> rate

Vegetation, bunchgrass.

April 7<sup>th</sup> 1888

North between sections 27 and 28.

Variation 14° 21' East.

Over rolling land.

40.00 Set a post 3 ft. long, 3 ins. diam. with marked stone 12 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 S. on W. face, dug pits, 18 x 18 x 12 ins., N. and S. of post 5 1/2 ft. dist., and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base around post.

80.00 Set a post 4 ft. long, 4 ins. square, with marked stone 12 ins. in the ground, for Cor. to Secs, 21, 22, 27 & 28, marked T, 16 N. S, 22, on N, E, R, 30 E, S. 27 on S, E, S, 28 on S, W, and S, 21 on N, W, face S with 2 notches on S, and 3 notches on E, edges, dug pits 18 x 18 x 12 ins. in each Sec., 5 1/2 ft. dist., and raised a mound of earth 2 ft. high, 4 1/2 ft. base around post.

Land rolling.

Soil 2<sup>nd</sup> rate

Vegetation, bunchgrass.

## T. 16 N. R. 30 E. G. &amp; S. R. M.

Chains.

*East. on a random line between sections 22 & 27.**Variation  $14^{\circ} 21'$  East.**Ascend.*40.00 *Set temporary  $\frac{1}{4}$  Sec. Cor.*P. 32 *intersect N. & S. line, 14 lks. S. of cor. to secs.**22, 23, 26 & 27 from which corner, I run**S.  $87^{\circ} 54'$  W. on a true line between sections 22 & 27.**Variation  $14^{\circ} 21'$  East*

40.16 *Set a sand stone  $14 \times 12 \times 6$  ins., 9 ins. in the ground, for  $\frac{1}{4}$  Sec. Cor., marked  $\frac{1}{4}$  on N. face, dug pits  $18 \times 18 \times 12$  ins., E. and W. of stone  $5\frac{1}{2}$  ft. dist., and raised a mound of earth  $1\frac{1}{2}$  ft. high,  $3\frac{1}{2}$  ft. base alongside.*

P. 32 *The corner to sections 21, 22, 27 & 28.**Land rolling.**Soil 2<sup>nd</sup> rate**Vegetation, Cuney m. co.*

## T. 16 N. R. 30 E. G. &amp; S. R. M.

## Chains.

North between sections 21 <sup>and</sup> 22.

Variation  $14^{\circ} 21'$  East.

Ascend.

23.00 Top of Spur, bears  $N. 70^{\circ} E.$  and descend.

40.00 Set a lava stone  $12 \times 11 \times 7$  ins., 8 ins. in the ground, for  $\frac{1}{4}$  Sec. Cor., marked  $\frac{1}{4}$  on W. face, and raised a mound of stone alongside. Pits impracticable.

80.00 Set a lava stone  $12 \times 10 \times 9$  ins  $8$  ins. in the ground for Cor. to Secs. 15, 16, 21 <sup>and</sup> 22, marked with 3 notches on S. and 3 notches on E. edges, dug pits  $18 \times 18 \times 12$  ins. in each Sec.,  $5\frac{1}{2}$  ft. dist. and raised a mound of earth 2 ft. high,  $4\frac{1}{2}$  ft. base. alongside.

Land rolling.

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

Vegetation, bunchgrass.

## T. 16 N. R. 30 E. G. &amp; S. R. M.

## Chains.

East. on a random line between sections 15 & 22,  
Variation  $14^{\circ} 21'$  East.

Descend.

74.5 Cross low Sag and ascend.

26.00 Top of Spur, bears  $N^{\circ}$  and descend.

40.00 Set temporary  $\frac{1}{2}$  Sec. Cor.

St. 53 Intersect N. & S. line, 22 lks. North of cor. to secs.

14, 15, 22 & 23 from which corner, I run

9.870 51' W. on a true line between sections 15<sup>th</sup> & 22.

Variation  $14^{\circ} 21'$  East

40.26 Set a sand stone  $14 \times 10 \times 6$  ins., 9  
ins. in the ground, for  $\frac{1}{2}$  Sec. Cor., marked  $\frac{1}{2}$  on N.  
face, and raised a mound of stone alongside. Pits  
impracticable.

St. 53 The corner to sections 15, 16, 21 and 22.

Land rolling.

Soil 2<sup>nd</sup> rate

Vegetation, bunchgrass.

## T. 16 N. R. 30. E. G. &amp; S. R. M.

## Chains.

North between sections 15<sup>th</sup> & 16.

Variation  $14^{\circ} 21'$  East.

Descend.

40.00 Set a lava stone  $10 \times 9 \times 8$  ins.,  
ins. in the ground, for  $\frac{1}{4}$  Sec. Cor., marked  $\frac{1}{4}$  on W.  
face, and raised a mound of stone alongside. Pits  
impracticable.

80.00 Set a lava stone  $20 \times 16 \times 6$  ins.  $15$  ins. in  
the ground for Cor. to Secs. 9, 10, 15 & 16, marked  
with 4 notch  $\infty$  on S. and 3 notch  $\infty$  on E. edges and  
raised a mound of stone alongside. Pits impracticable.  
Land rolling.

Soil 2<sup>nd</sup> rate

Vegetation, bunch grass.

## T. 16 N. R. 80 E. G. &amp; S. R. M.

## Chains.

East. on a random line between sections 10 & 15.

Variation  $14^{\circ} 21'$  East.

Ascend.

40.00 Set temporary  $\frac{1}{4}$  Sec. Cor.

47.00 Top of Meas. bears N.E. <sup>2<sup>nd</sup></sup> S. W. and descend

80.23 Intersect N. & S. line, 47 lks. ~~South~~ of cor. to secs.  
10, 11, 14 & 15, from which corner, I run

S.  $89^{\circ} 40'$  W. on a true line between sections 10 <sup>2<sup>nd</sup></sup> & 15.

Variation  $14^{\circ} 21'$  East

40.11 Set a sandstone  $18 \times 10 \times 6$  ins., 12  
ins. in the ground, for  $\frac{1}{4}$  Sec. Cor., marked  $\frac{1}{4}$  on N.  
face, and raised a mound of stone alongside. Pits  
unpracticable.

80.23 The corner to sections 9, 10, 15 <sup>2<sup>nd</sup></sup> & 16,

Land rolling.

Soil 2<sup>nd</sup> rate

Vegetation, bunchgrass.

## T. 16 N. R. 30 E. G. &amp; S. R. M.

Chains.

North on a true line between sections 9<sup>th</sup> and 10.

Va.  $14^{\circ} 21'$  East.

Ascend.

- 7.50 Bank of Mea, bears U. E. <sup>9<sup>th</sup></sup> and S. W. and descend
- 40.00 Set a sandstone  $12 \times 10 \times 7$  ins., 8 ins. in the ground, for  $\frac{1}{4}$  Sec. Cor., marked  $\frac{1}{4}$  on W. face, and raised a mound of stone alongside. Pits impracticable.
- 42.00 Foot of Mea, bears U. E. <sup>9<sup>th</sup></sup> on level land.
- 46.00 Cross Luni River, 50 lks. wide, course S. W.
- 79.96 Intersect the 4<sup>th</sup> Standard Parallel North, at a point 2.23 chs. East of the Standard Cor. to Secs. 33 and 34 . T. 17 N. R. 30 E.,
- which is a post, set firmly in the ground, marked S. C. U. 17 N., R. 30 E. on N.; S. 34 on E. E. S. 33 on W. face, with 3 notches on E. and W. faces, with pits U. E. and W. of post,  $5\frac{1}{2}$  ft. dist, and a mound of earth, in good view, around post, and



## T. 16 N. R. 30 E. G. &amp; S. R. M.

## Chains.

Set a sand stone  $14 \times 10 \times 9$  ins. 9 ins. in the ground for Closing Cor. to Sees. 9 and 10 marked C. C. with 3 notches on E. and 3 notches on W. edges, dug pits  $18 \times 18 \times 12$  ins. S. E., and W. of stone,  $5\frac{1}{2}$  ft. dist., and raised a mound of earth 2 ft. high,  $4\frac{1}{2}$  ft. base, alongside.

Land rolling.

Soil 2<sup>nd</sup> rate

Vegetation, bunchgrasses. April 9<sup>th</sup> 1883.

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From the corner to sections, 4, 5, 32<sup>nd</sup> & 33, on S. boundary of township, which is a sandstone set firmly in the ground, marked with 4 notches on E. and 2 notches on W. edges, with pits in each sec,  $5\frac{1}{2}$  ft. dist., and a mound of earth, in good order, alongside, 9 miles North between sections 32<sup>nd</sup> & 33.

Variation  $14^{\circ} 05'$  East.

Ascend.

## T. 16 N. R. 30 E. G. &amp; S. R. M.

## Chains.

40.00 Set a sand stone 16 x 12 x 9 ins., 11 ins. in the ground, for  $\frac{1}{4}$  Sec. Cor., marked  $\frac{1}{4}$  on W face, and raised a mound of stone alongside. Pits impracticable.

74.00 Top of *Ulex*, bears N. W. and S. E. and descend

80.00 Set a sand stone 14 x 10 x 10 ins. 9 ins. in the ground for Cor. to Secs. 28, 29, 32 & 33, marked with 1 notch on S. and 4 notches on E. edges and raised a mound of stone alongside. Pits impracticable. Land mountainous.

Soil 2<sup>nd</sup> rate

Vegetation, *Juniperus*.

East. on a random line between sections 28 & 33.

Variation  $14^{\circ} 21'$  East.

Ascend.

40.00 Set temporary  $\frac{1}{4}$  Sec. Cor.

80.21 Intersect N. & S. line, 37 lks. North of cor. to secs. 27, 28, 33 & 34, from which corner, I run N.  $89^{\circ} 44'$  W. on a true line between sections 28 & 33. Variation  $14^{\circ} 21'$  East

## T. 16 N. R. 80 E. G. &amp; S. R. M.

## Chains.

- 40.10 Set a post 3 ft. long, 3 ins. diam. with marked stone 12 ins. in the ground, for  $\frac{1}{4}$  Sec. Cor., marked  $\frac{1}{2}$  S. on N. face, dug pits, 18 x 18 x 12 ins., E. and W. of post  $5\frac{1}{2}$  ft. dist., and raised a mound of earth  $1\frac{1}{2}$  ft. high,  $3\frac{1}{2}$  ft. base around post.
- 80.21 The corner to sections 28, 29, 32<sup>nd</sup> and 33.  
Land rolling.  
Soil 2<sup>nd</sup> rate  
Vegetation, Open grass.
- 
- North between sections 28<sup>th</sup> and 29.  
Variation  $14^{\circ} 21'$  East.  
Descend.
- 21.15 Cross Gulch, 10 lks. wide, Course N60<sup>o</sup>W and ascend.
- 40.00 Set a sand stone  $14 \times 12 \times 9$  ins., 9 ins. in the ground, for  $\frac{1}{4}$  Sec. Cor., marked  $\frac{1}{2}$  on W. face, and raised a mound of stone alongside. Pits impracticable.
- 71.00 Top of Mesa, trans N. 30<sup>o</sup> W. and descend.
- 80.00 Set a sand stone  $16 \times 14 \times 10$  ins. 11 ins. in the ground for Cor. to Secs. 20, 21, 28 & 29, marked with 2 notch es on S. and 4 notch es on E. edges and raised a mound of stone alongside. Pits impracticable.

T. 16 N. R. 30 E. G. &amp; S. R. M.

## Chains.

Land rolling.

Soil 2<sup>nd</sup> rate

Timber of Cedar.

Vegetation, bunchgrass.

East. on a random line between sections 21 &amp; 28.

Variation  $14^{\circ} 21'$  East.

Descend.

40.00 Set temporary  $\frac{1}{2}$  Sec. Cor.Pb. 46 Intersect N. & S. line, 26 lks. North of cor. to secs.  
21, 22, 27 & 28, from which corner, I runN  $89^{\circ} 49'$  W. on a true line between sections 21 and 28.Variation  $14^{\circ} 21'$  East40.23 Set a post 3 ft. long, 3 ins. diam. with marked stone  
12 ins. in the ground, for  $\frac{1}{2}$  Sec. Cor., marked  $\frac{1}{2}$  S. on  
N. face, dug pits, 18 x 18 x 12 ins., E. and W. of  
post  $5\frac{1}{2}$  ft. dist., and raised a mound of earth  $1\frac{1}{2}$  ft.  
high,  $3\frac{1}{2}$  ft. base around post.

Pb. 46 The corner to sections 20, 21, 28 and 29.

Land rolling.

Soil 2<sup>nd</sup> rate

Vegetation, bunchgrass.

## T. 16N. R. 30 E. G. &amp; S. R. M.

## Chains.

North between sections 20 <sup>and</sup> 21,

Variation  $14^{\circ} 21'$  East.

Descend.

1.40 Cross low Sag and ascend.

27.50 Descend.

40.00 Set a sand stone  $14 \times 10 \times 6$  ins., 9 ins. in the ground, for  $\frac{1}{4}$  Sec. Cor., marked  $\frac{1}{4}$  on W. face, and raised a mound of stone alongside. Pits impracticable.

80.00 Set a sand stone  $14 \times 10 \times 7$  ins. 9 ins. in the ground for Cor. to Secs. 16, 17, 20 & 21, marked with 3 notches on S. and 4 notches on E. edges and raised a mound of stone alongside. Pits impracticable.

Land rolling.

Soil 2<sup>nd</sup> rate

Vegetation, bunchgrass.

## T. 16 N. R. 30 E. G. &amp; S. R. M.

## Chains.

East. on a random line between sections 16 & 21

Variation  $14^{\circ} 21'$  East.

Ascend.

8.50 Edge of Mesa, bear  $N. 10^{\circ} E.$  and ascend

40.00 Set temporary  $\frac{1}{4}$  Sec. Cor.

62.00 Top of Spur, bears  $S. 10^{\circ} W.$  and descend.

79.96 Intersect N. & S. line, 18 lks. ~~North~~ of cor. to secs.

15, 16, 21 & 22 from which corner, I run

$N. 89^{\circ} 52' W.$  on a true line between sections 16<sup>and</sup> 21.

Variation  $14^{\circ} 21'$  East

89.98 Set a sand stone  $14 \times 10 \times 6$  ins., 9  
ins. in the ground, for  $\frac{1}{4}$  Sec. Cor., marked  $\frac{1}{4}$  on N.  
face, and raised a mound of stone alongside. Pits  
impracticable.

79.96 The corner to sections 16, 17, 20 and 21.

Land rolling.

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

Vegetation, bunchgrass.

## T. 16 N. R. 30 E. G. &amp; S. R. M.

## Chains.

North between sections 16<sup>and</sup> 17.Variation  $14^{\circ} 21'$  East.

Descend.

18.00 Enter Valley, bears  $N. 5^{\circ}$  and S. W.

40.00 Set a sand stone  $14 \times 11 \times 5$  ins., 7  
ins. in the ground, for  $\frac{1}{4}$  Sec. Cor., marked  $\frac{1}{4}$  on W.  
face, and raised a mound of stone alongside. Pits  
impracticable.

43.90 Cross Wash, 10 lks. wide, Course W

76.30 Cross Juni Riv, 40 lks. wide, course  $N. 60^{\circ} W$ 

80.00 Set a sand stone  $12 \times 10 \times 5$  ins. 8 ins. in  
the ground for Cor. to Secs. 8, 9, 16<sup>and</sup> 17, marked  
with 4 notches on S. and 4 notches on E. edges and  
raised a mound of stone alongside. Pits impracticable.

Land rolling.

Soil 2<sup>nd</sup> rate

Vegetation, bunchgrass.

## T. 76 N. R. 30 E. G. &amp; S. R. M.

## Chains.

East: on a random line between sections 9 & 16

Variation  $14^{\circ}21'$  East.

Descend.

5.70 Cross Lurie River, 40 cks. wide, course  $S. 60^{\circ} W.$

40.00 Set temporary  $\frac{1}{4}$  Sec. Cor.

60.40 Leave Valley, bears  $N. \frac{1}{2} S.$  and ascend.

80.11 Intersect N. & S. line, 9 lks. North of cor. to secs.

9, 10, 15 & 16 from which corner, I run

$N. 89^{\circ} 56' W.$  on a true line between sections 9 & 16,

Variation  $14^{\circ} 21'$  East

40.05 Set a lava stone  $12 \times 8 \times 4$  ins., 8 ins. in the ground, for  $\frac{1}{4}$  Sec. Cor., marked  $\frac{1}{4}$  on N face, dug pits  $18 \times 18 \times 12$  ins., E and W. of stone  $5\frac{1}{2}$  ft. dist., and raised a mound of earth  $1\frac{1}{2}$  ft. high,  $3\frac{1}{2}$  ft. base alongside.

80.11 The corner to sections 8, 9, 16 & 17.

Land rolling.

Soil 2<sup>nd</sup> rate

Vegetation, Guineagrass.

April 10<sup>th</sup> 1893.



## T. 16 N. R. 30 E. G. &amp; S. R. M.

## Chains.

North on a true line between sections 8<sup>th</sup> & 9.

Va.  $14^{\circ} 21'$  East.

Ascend.

2.15 Cross Road, to Fort Wingate, bears  $N. 40^{\circ} E.$

19.00 Leave Valley, bears  $N. E. \frac{1}{2} S. W.$ , and ascend.

40.00 Set a sand stone  $16 \times 10 \times 4$  ins., 11 ins. in the ground, for  $\frac{1}{4}$  Sec. Cor., marked  $\frac{1}{4}$  on W. face, and raised a mound of stone alongside. Pits

not particable.

59.00 Edge of mesa, bears  $E. \frac{1}{2} W.$   $\frac{1}{2}$  still ascend.

79.76 Intersect the 4<sup>th</sup> Standard Parallel North, at a point 2, 31 chs. East of the Standard Cor. to Secs. 32 and 33, T. 17 N. R. 30 E., which is a post, set firmly in the ground, marked S. C. T. 17 N. R. 30 E. on N.; S. 33 on E.  $\frac{1}{2}$  S. 32 on W. faces, with 4 notches on E. and 2 notches on W. faces; with pits N, E,  $\frac{1}{2}$  W. of post, 5 1/2 ft. dist., and a mound of earth, in good order, around post, and

## T. 16 N. R. 30 E. G. &amp; S. R. M.

## Chains.

Set a post, 4 ft. long, 4 ins. square, <sup>with marked stone</sup> 12 ins. in the ground, for <sup>chain</sup> Cor. to Secs. 8 and 9 marked G. & C. T. 16 N. R. 30 E., on S. S. 9 on E. and S. 8 on W. faces, with 4 notches on E. and 2 notches on W. faces, dug pits 18 x 18 x 12 ins. S. & E. of post, 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base around post.

Land rolling.

Soil  $2^{ka}$  rate

Vegetation *brushy woods.*

From the corner to sections, 5, 6, 31 and 32 on S. boundary of township, which is a post, set firmly in the ground, marked T. 16 N., S. 32 on N. E.;

R. 30 E., S. 5 on S. E.; T. 15 N., S. 6 on S. W. and S. 31 on N. W. faces, with 5 notches on E. and 1 notch on W. edges; with pits in each sec, 5½ ft. dist., and a mound of earth, in good order, around post, 1 mi. North between sections 31 and 32.

Variation  $14^{\circ} 15'$  East.

## T. 16 N. R. 30 E. G. &amp; S. R. M.

## Chains.

Descend.

27.30 Cross Wash, 20 lks. wide, Course  $46^{\circ}$  and ascend.40.00 Set a sandstone  $14 \times 10 \times 9$  ins., 7 ins. in the ground, for  $\frac{1}{4}$  Sec. Cor., marked  $\frac{1}{4}$  on W. face, and raised a mound of stone alongside. Pits

impracticable.

80.00 Set a post 4 ft. long, 4 ins. square, with marked stone 12 ins. in the ground, for Cor. to Secs, 29, 30, 31 & 32, marked T, 164, S, 27, on N, E, R, 30 E, S, 32 on S, E, S, 31 on S, W, and S, 30 on N, W, faces, with / notch on S, and 5 notches on E, edges, dug pits  $18 \times 18 \times 12$  ins, in each Sec.,  $5\frac{1}{2}$  ft. dist., and raised a mound of earth 2 ft. high,  $4\frac{1}{2}$  ft. base around post.

Land rolling.

Soil 2<sup>nd</sup> rate

Vegetation, bunchgrass and sagebrush.

East: on a random line between sections 29 &amp; 32.

Variation  $14^{\circ} 21'$  East.

Ascend.

40.00 Set temporary  $\frac{1}{4}$  Sec. Cor.

## T. 16 N. R. 30 E. G. &amp; S. R. M.

## Chains.

- 80.47 Intersect N. & S. line, 17 lks. ~~South~~ of cor. to secs.  
28, 29, 32 & 33 from which corner, I run  
S. 87° 58' W. on a true line between sections 29 & 32,  
Variation 14° 21' East
- 40.23 Set a sand stone 18 x 14 x 10 ins., 12  
ins. in the ground, for  $\frac{1}{4}$  Sec. Cor., marked  $\frac{1}{4}$  on W.  
face, and raised a mound of stone alongside. Pits  
impracticable.
- 80.47 The corner to sections 29, 30, 31 & 32,  
Land rolling.  
Soil 2<sup>nd</sup> rate  
Vegetation, bunchgrass.
- 
- West. on a random line between sections 30 & 31,  
Variation 14° 21' East.
- Ascend.
- 13.50 Top of Spur, bears N. 30° W. and descend.
- 21.00 Cross Gulch, 17 lks. wide, Course S. 20° W. and ascend.
- 30.00 Top of Mesa, bears N. & S. and descend
- 40.00 Set temporary  $\frac{1}{4}$  Sec. Cor.
- 79.09 Intersect W. B. of Tp. 43 lks. ~~South~~ of cor. to secs.  
25, 30, 31 & 36, <sup>previously set by me</sup> from which corner, I run  
S. 89° 42' E. on a true line, between sections 30 & 31,

## T. 16 N. R. 30 E. G. &amp; S. R. M.

Chains.

Variation  $14^{\circ}13'$  East.

39.09 Set a sand stone  $12 \times 12 \times 7$  ins., 8  
ins. in the ground, for  $\frac{1}{4}$  Sec. Cor., marked  $\frac{1}{2}$  on N.  
face, and raised a mound of stone alongside. Pits  
impracticable.

79.09 The corner to sections 29, 30, 31 & 32.

Land rolling.

Soil 2<sup>nd</sup> rate

Vegetation, bunchgrass.

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North between sections 29 and 30.

Variation  $14^{\circ}21'$  East.

Over rolling land.

40.00 Set a sand stone  $14 \times 10 \times 9$  ins., 9  
ins. in the ground, for  $\frac{1}{4}$  Sec. Cor., marked  $\frac{1}{2}$  on W.  
face, and raised a mound of stone alongside. Pits  
impracticable.

50.00 Set a sand stone  $16 \times 10 \times 7$  ins. 11 ins.  
in the ground for Cor. to Secs. 19, 20, 29 & 30, marked  
with 2 notches on S. and 5 notches on E. edges.  
dug pits  $18 \times 18 \times 12$  ins. in each Sec.,  $5\frac{1}{2}$  ft. dist. and  
raised a mound of earth 2 ft. high,  $4\frac{1}{2}$  ft. base. alongside.

Land rolling.

Soil 2<sup>nd</sup> rate

Vegetation, bunchgrass.

T. 16 N. R. 30 E. G. & S. R. M.

Chains.

East. on a random line between sections 20 & 29.

Variation  $14^{\circ} 21'$  East.

29.80 Leave Valley, bears  $H. \frac{1}{2} S.$  and ascend.

40.00 Set temporary  $\frac{1}{4}$  Sec. Cor.

60.00 Top of Mesa bears  $N. \frac{1}{2} S.$  and descend

80.32 Intersect N. & S. line, 11 lks. south of cor. to secs. 20, 21, 28 & 29 from which corner, I run

$S. 89^{\circ} 55' W.$  on a true line between sections 20 and 29.  
Variation  $14^{\circ} 21'$  East

40.16 Set a sand stone  $14 \times 10 \times 7$  ins., 9 ins. in the ground, for  $\frac{1}{4}$  Sec. Cor., marked  $\frac{1}{2}$  on  $N.$  face, and raised a mound of stone alongside. Pits impracticable.

80.32 The corner to sections 19, 20, 29 and 30.

Land rolling.

Soil good rate

Vegetation, Cunelgrass.

I carefully examined the adjustments of my solar compass to-day, particularly the latitude and reversal apparatus, and found them correct.

April 11<sup>th</sup> 1853.

## T. 16 N. R. 30 E. G. &amp; S. R. M.

## Chains.

West. on a random line between sections 19 & 30,

Variation  $14^{\circ} 21'$  East.

Ascend.

38.00 Top of Spur, bears  $\mathcal{N}$ , and descend.

40.00 Set temporary  $\frac{1}{4}$  Sec. Cor.

79.31 Intersect W. B. of Tp. 9 lks. West of cor. to secs.

<sup>formerly set by me</sup>  
19, 24, 25 & 30, from which corner, I run

$N. 89^{\circ} 56' E.$  on a true line, between sections 19 & 30,

Variation  $14^{\circ} 13'$  East.

39.31 Set a lava stone  $18 \times 16 \times 7$  ins., 12

ins. in the ground, for  $\frac{1}{4}$  Sec. Cor., marked  $\frac{1}{2}$  on N,  
face, and raised a mound of stone alongside. Pits

unpracticable.

79.31 The corner to sections 19, 20, 29 <sup>and</sup> 30.

Land rolling.

Soil 2<sup>nd</sup> rate

Vegetation, bunchgrass.

T. 16 N. R. 30 E. G. &amp; S. R. M.

Chains.

North between sections 19<sup>and</sup> 20.Variation  $14^{\circ} 21'$  East.

Over rolling land.

- 40.00 Set a sand stone  $14 \times 12 \times 7$  ins., 7 ins. in the ground, for  $\frac{1}{4}$  Sec. Cor., marked  $\frac{1}{4}$  on W. face, and raised a mound of stone alongside. Pits impracticable.
- 71.00 Cross Wash, 10 lks. wide, Course S.  $70^{\circ}$  W.
- 75.97 Cross Juni Ring, 70 lks. wide, course W.
- 76.01 Cross Road to Fort Wingate, cross E, and ascend
- 80.00 Set a sand stone  $14 \times 10 \times 7$  ins. 7 ins. in the ground for Cor. to Secs. 17, 18, 19 & 20, marked with 3 notches on S. and 5 notch 20 on E. edges and raised a mound of stone alongside. Pits impracticable. Land rolling.
- Soil 2<sup>nd</sup> rate
- Vegetation, bunchgrass.



## T. 16 N. R. 30 E. G. &amp; S. R. M.

## Chains.

East. on a random line between sections 17 & 20,

Variation  $14^{\circ} 21'$  East.

Descend.

- 3.50 Cross Road, to Fort Wingate, bears  $N. 40^{\circ} E.$
- 7.50 Cross Juni River, 50 lks. wide, course  $S. W. \frac{1}{2} E.$   
Enter Valley, bears  $N. E. \frac{1}{2} S. W.$
- 11.60 Cross Wash, 30 lks. wide, Course  $S. W.$  and ascend.
- 40.00 Set temporary  $\frac{1}{4}$  Sec. Cor.
- 53.00 Leave Valley, bears  $N. E.$  and ascend.
- 83.46 Intersect N. & S. line, 29 lks. South of cor. to secs.  
16, 17, 20 & 21, from which corner, I run  
 $S. 89^{\circ} 48' W.$  on a true line between sections 17 & 20.  
Variation  $14^{\circ} 21'$  East
- 40.23 Set a sand stone  $14 \times 10 \times 6$  ins., 9  
ins. in the ground, for  $\frac{1}{4}$  Sec. Cor., marked  $\frac{1}{4}$  on N.  
face, and raised a mound of stone alongside. Pits  
impracticable.
- 80.46 The corner to sections 17, 18, 19 and 20.  
Land rolling.  
Soil 3<sup>rd</sup> rate  
Vegetation, bunch grass.

## T. 16. N. R. 30 E. G. &amp; S. R. M.

## Chains.

West. on a random line between sections 18 & 19.

Variation  $14^{\circ} 21'$  East.

Ascend.

22.50 Top of Spur, bears  $\mathcal{N}$ . and descend.

40.00 Set temporary  $\frac{1}{4}$  Sec. Cor.

79.50 Intersect W. B. of Tp. 32 lks. North of cor. to secs.

13, 18, 19 & 20, <sup>proximately set by me</sup> from which corner, I run

$N. 84^{\circ} 46' E.$  on a true line, between sections 18 & 19.

Variation  $14^{\circ} 18'$  East.

39.50 Set a sand stone  $14 \times 10 \times 4$  ins., 9 ins. in the ground, for  $\frac{1}{4}$  Sec. Cor., marked  $\frac{1}{4}$  on  $\mathcal{N}$ . face, dug pits  $18 \times 18 \times 12$  ins.,  $E.$  and  $W.$  of stone  $5\frac{1}{2}$  ft. dist., and raised a mound of earth  $1\frac{1}{2}$  ft. high,  $3\frac{1}{2}$  ft. base alongside.

79.50 The corner to sections 17, 18, 19 & 20.

Land mountainous.

Soil 2nd rate

Vegetation, brush.

## T. 16 N. R. 30 E. G. &amp; S. R. M.

Chains.

North between sections 17 and 18.

Variation  $14^{\circ} 21'$  East.

Ascend.

37.50 Top of Men bears  $21.50^{\circ} E$ , and descend

40.00 Set a sand stone  $18 \times 16 \times 10$  ins., 12  
 ins. in the ground, for  $\frac{1}{4}$  Sec. Cor., marked  $\frac{1}{4}$  on W  
 face, and raised a mound of stone alongside.\* Pits  
 impracticable.

30.00 Set a sand stone  $16 \times 10 \times 6$  ins. 11 ins.  
 in the ground for Cor. to Secs. 7, 8, 17, 18, marked  
 with 4 notch  $20$  on S. and 5 notch  $20$  on E. edges,  
 dug pits  $18 \times 18 \times 12$  ins. in each Sec.,  $5\frac{1}{2}$  ft. dist. and  
 raised a mound of earth 2 ft. high,  $4\frac{1}{2}$  ft. base.

Land rolling.

Soil 2<sup>nd</sup> rateVegetation, *Onoclynes*.

## T. 16 N. R. 30. E. G. &amp; S. R. M.

## Chains.

East. on a random line between sections 8 & 17.

Variation  $14^{\circ} 21'$  East.

Descend.

40.00 Set temporary  $\frac{1}{4}$  Sec. Cor.

75.10 Enter Valley, bears N. E. <sup>2nd</sup> S. W.

77.52 Cross Road, to Juni, bears S.  $45^{\circ}$  W.

80.26 Intersect N. & S. line, 21 lks. South of cor. to secs.

8, 9, 16 & 17 from which corner, I run

S.  $89^{\circ} 51'$  W. on a true line between sections 8 and 17

Variation  $14^{\circ} 21'$  East

40.13 Set a limestone  $15 \times 10 \times 6$  ins., 10  
ins. in the ground, for  $\frac{1}{4}$  Sec. Cor., marked  $\frac{1}{4}$  on N.  
face, and raised a mound of stone alongside. Pits  
impracticable.

80.26 The corner to sections 7, 8, 17 <sup>2nd</sup> and 18.

Land rolling.

Soil <sup>2nd</sup> rate

Vegetation, bunchgrasses.

T. 16. N. R. 30 E. G. & S. R. M.

Chains.

West. on a random line between sections 7 & 16.  
Variation 14° 21' East.

Ascend.

24.00 Top of Ridge, bears N. E. and descend.

40.00 Set temporary 1/4 Sec. Cor.

79.49 Intersect W. B. of Tp. 27 lks. ~~W. B.~~ of cor. to secs.  
<sup>from summit of hill</sup>  
7, 12, 13 & 18, from which corner, I run  
N. 87° 48' E. on a true line, between sections 7 <sup>and 16</sup>.  
Variation 14° 13' East.

39.49 Set a post 3 ft. long. 3 ins. diam. with marked stone  
12 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 S. on  
N. face, dug pits, 18 x 18 x 12 ins., E. and W. of  
post 5 1/2 ft. dist., and raised a mound of earth 1 1/2 ft.  
high, 3 1/2 ft. base around post.

79.49 The corner to sections 7, 17 <sup>and 16</sup>.

Land mountainous.

Soil 2nd rate

Vegetation, Canchigmes.

T. 16 N. R. 31 E. G. &amp; S. R. M.

## Chains.

North on a true line between sections 7<sup>th</sup> and 8<sup>th</sup>.

Va. 14'-21' East.

Ascend.

22.00 Top of Mea, bears N. E.  $\frac{1}{2}$  S. W. and descend

40.00 Set a post 3 ft. long, 3 ins. diam. with marked stone  
12 ins. in the ground, for  $\frac{1}{4}$  Sec. Cor., marked  $\frac{1}{4}$  S. on  
W. face, dug pits, 18 x 18 x 12 ins., N. and S. of  
post  $5\frac{1}{2}$  ft. dist., and raised a mound of earth  $1\frac{1}{2}$  ft.  
high,  $3\frac{1}{2}$  ft. base around post.

79.47 Intersect the 4<sup>th</sup> Standard Parallel North, at a  
point 2.47 chs. East of the Standard Cor. to  
Secs. 31 and 32. T. 17 N. R. 30 E.,

which is a post, set firmly in  
the ground, marked S. E. T. 17 N., R. 30 E.  
on N.; S. 32 on E.  $\frac{1}{2}$  N. 31 on W. faces,  
with 5 notches on E. and 1 notch  
on W. faces, with pits  
N., E. and W. of post, 5' ft.  
dist., and a mound of  
earth, in good order  
around post, and

T. 16 N. R. 30 E. G. &amp; S. R. M.

Chains.

Set a post, 4 ft. long, 4 ins. square, <sup>with marked stem</sup> 12 ins. in the ground, for ~~chain~~ Cor. to Secs. 7 and 8 marked C.C. T. 174 R. 30 E., on ~~S.~~ S. 8 on E. and S. 7 on W. faces, with 5 notches on E and 1 notch on W faces, dug pits 18 x 18 x 12 ins. ~~S. E.~~ <sup>S. E.</sup> of post, 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base around post.

Land rolling.

Soil 2nd rateVegetation, luncgrass.

I carefully examined the adjustments of my solar compass to-day, particularly the latitude and reversing apparatus, and found them correct.

April 12<sup>th</sup> 1883.

## General Description.

The land in this township consists of high, rolling mesas, low mountain ridges and small level valleys.

In the valleys, the soil is <sup>2<sup>nd</sup></sup> rate, producing excellent bunchgrass and capable of being used for agricultural purposes, without irrigation. In the mountains, it is generally of sandy formation, covered with bunchgrass and growing some cedar timber.

The Gunnis River, crosses the north western part of the township, furnishing a good supply of water. The road to Fort Wingate crosses the northwestern part of the township.

For final notes see book N<sup>o</sup> 19



## U. S. Surveyor General's Office,

Tucson, Arizona, June 14, 1884,

The foregoing Field Notes of the Survey of the

Subdivision Lines of  
Township 16 North  
Range 30 East

Of the Gila and Salt River Base and Meridian, Arizona, execu-  
ted by A. D. Wheeler

Deputy Surveyor, under his contract of the 14<sup>th</sup>  
day of July, 1882, having been

critically examined and the necessary corrections and explana-  
tions made, the said Field Notes and the surveys they describe  
are hereby approved

Pyralis Johnson  
Surveyor General.