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Book No. ~~111~~

No-257

# FIELD-NOTES

OF

BOOK 257

The Subdivision Lines of  
fractional  
Township 16 North  
Range 31 East

Gila and Salt River Meridian, Arizona.

BY

A. E. Stormaker, Deputy Surveyor,

under his contract of August 5<sup>th</sup> 1882

Survey commenced July 16<sup>th</sup> 1883

Survey completed July 19<sup>th</sup> 1883

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BOOK 257

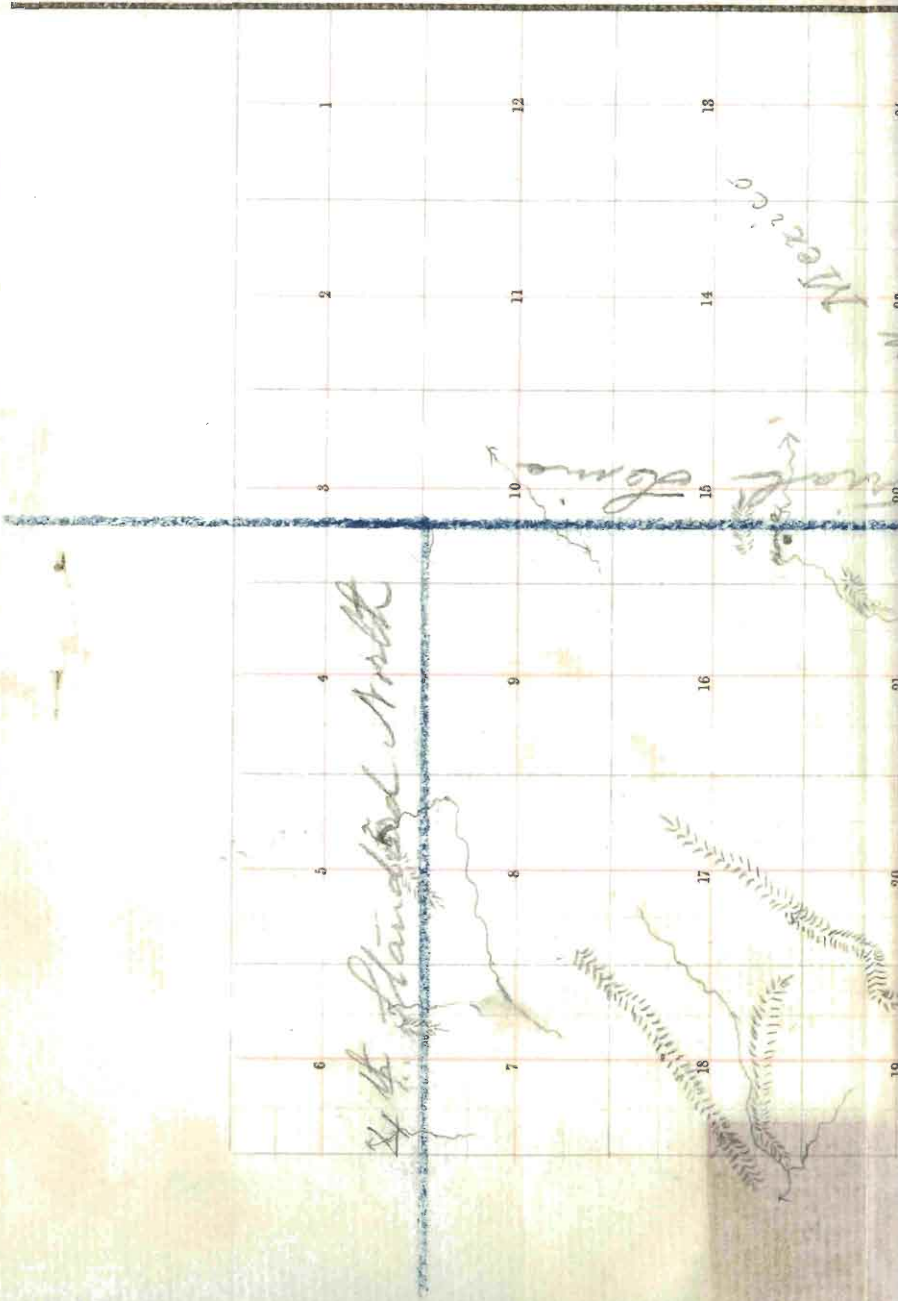
Township 16 N., Range 31 E., M.  
S. R. M.

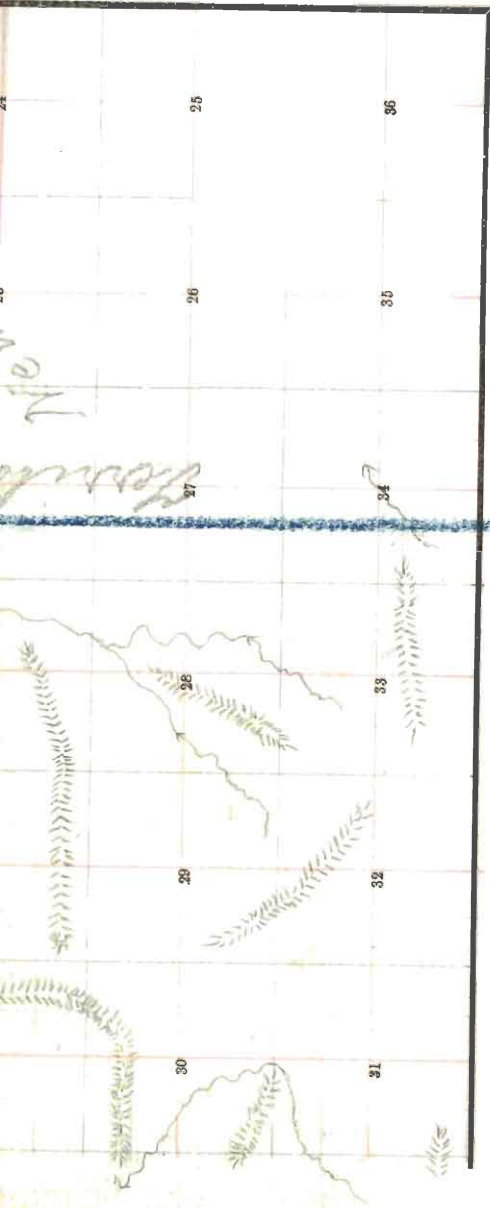
6	5	4	3	2	1
7	34	8	20	9	10
33	32	19	9	11	12
18	31	17	18	16	8
30	29	17	7	14	13
19	28	20	16	21	6
27	26	15	5	22	23
30	25	29	14	28	4
24	23	13	3	27	26
31	22	32	12	33	1
				34	35
					36

For preliminary oaths and description of instrument see Book No. 1.

Trac. Township No. 16 N. Range No. 31 E. 9 x 9 Meridian.

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TOWNSHIP PLOT.

*Meridian Line,*

*Base Line,*

*Standard Line,*

*Township Lines,*

*Section Lines,*

*Meander Lines,*

*Office Work,*

T. 16 N. R. 31 E. G. & S. R. M. 1c

No-257

Chains.

in S. Bay of Sp -

From the corner to sections, 3, 4, 33 + 34 which is

a post, set firmly in the ground, marked

T. 16 N., S. 34 on N. E.

R. 31 E., S. 3 on S. E.

S. 15 N., S. 4 on S. W. and S. 33 on N. W.

face, with pits N., S., E. and W.

of post, 5 1/2 ft. dist., and a mound of earth,

in good order, around post, 3 m.

North between sections 33 and 34.

Variation 13° 50' East.

Ascend.

30.00 Top of Spur, bears E. and W. and descend.

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, 27, 28, 33 + 34,  
marked T, 16 N. S. 27, on N, E, R, 31 E, S. 34  
on S, E, S, 33 on S. W, and S, 28 on N, W, face  
with 1 notch on S, and 3 notch 20 on E, edges,  
dug pits 18 x 18 x 12 ins. in each Sec., 5 1/2 ft. dist.,

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

Chains.

and raised a mound of earth 2 ft, high, 4  $\frac{1}{2}$  ft, wide  
around post.

Land rolling.

Soil 2<sup>nd</sup> rate

Vegetation, bunchgrass.

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

Chains.

East on a true line between sections 27<sup>and</sup> 34.

Va. 14°19' East.

Descend.

20.17 Intersect Boundary line between Arizona and New Mexico at a point which bears 20.45 chs. N. from the 15<sup>th</sup> Mile post, which is a

post, set firmly in the ground, marked 155 on N.; N. M. on E.; 32° W. L. on S. <sup>2</sup> on Ariz. on W. faces, with pits N. <sup>2</sup> S. of post, 6 ft. dist., and a mound of earth, in good order, around post, and

Set a post, 4 ft. long, 4 ins. square, with marked stone, 12

the ground for Closing Cor. to Secs. 27 and 34 T. 16 N. R. 31 E. on W.; S. 27 on N. <sup>2</sup> and S. 34 on S. faces, marked C. C. with 1 notch on S. and 5 notches on

N. edges, dug pits 18 x 18 x 12 ins. S. <sup>2</sup> and W. of

post 5½ ft. dist., and raised a mound of earth 2 ft.

high, 4½ ft. base around post.

Land rolling.

Soil <sup>2</sup> <sup>4</sup> <sup>rate</sup>

Vegetation, bunchy grass.

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

Chains.

North between sections 27 <sup>and</sup> 28.Variation  $14^{\circ}19'$  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, 21, 22, 27 & 28, marked T, 16 N S, 22, on N, E, R, 31 E, S. 27 on S, E, S, 28 on S, W, and S, 21 on N, W, face with 2 notches on S, and 3 notches 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, brushy grass.



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

Chains.

East on a true line between sections 22<sup>and</sup> 27.

Va. 14019' East.

Ascend.

21, 38 Intersect Boundary line between Arizona and New Mexico at a point which bears 22.77 chs. N. from the 15<sup>th</sup> Mile post, which is a post set firmly in the ground, marked 15<sup>th</sup> on N., N. W. on E., 32° W. L. on S. and Ariz. on W. faces, with pits N. and S. of post, 6 ft. dist., and a mound of earth in good order around post, and

Set a post, 4 ft. long, 4 in. dia., with washer stone, 12 the ground for Closing Cor. to Secs. 22 and 27 T. 16 N., R. 31 E. on W., S. 22 on N. and S. 27 on S. faces, marked C. C. with 2 notches on E and 4 notches on S. dug pits 18 x 18 x 12 in. N., S. & W. of post, 5 1/2 ft. dist., edges and raised a mound of earth, 2 ft. high, 1/2 ft. base around post.

Land rolling.

Soil 2<sup>nd</sup> rate

Vegetation, bunchgrass.

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

## Chains.

North between sections 21 and 22.

Variation 14019' 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.
- 60.00 Top of Spur, bears N.E. or S.W. and descend.
- 65.10 Cross Gulch, 3 lks. wide, Course N.E. and ascend.
- 80.00 Set a post 4 ft. long, 4 ins. square, with marked stone 12 ins. in the ground, for Cor. to Secs, 15, 16, 21 & 22, marked T, 164.S, 15, on N, E, R, 31 E, S. 22 on S, E, S, 21 on S, W, and S, 16 on N, W, face with 3 notches on S, and 3 notches 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 mountainous.

Soil 2<sup>nd</sup> rate

Vegetation, bunchy grass.

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

Chains.

East on a true line between sections 15<sup>th</sup> and 22,  
Va. 14°19' East.

Descend.

9.80 Cross Wash, 10 lks. wide, Course  $\mathcal{N}$ . and ascend.

22.57 Intersect Boundary line between Arizona and  
New Mexico at a point which bears 23.71 chs.  $\mathcal{N}$ .  
from the 153<sup>rd</sup> Mile post, which is a  
post set firmly in the ground, marked  
153 on  $\mathcal{N}$ .;  $\mathcal{N}$ . M. on E.;  $32^{\circ}$  W. S.  
on S.  $\mathcal{N}$ . Ariz. a W. faces, with  
pits  $\mathcal{N}$ . and S. of post, 6 ft. dist.  
and a mound of earth,  
in good order around post,  
and

Set a lava stone 18 x 16 x 12 ins. 12 ins. in  
the ground for Closing Cor. to Secs. 15 and 22  
marked C. C. with 3 notches on  $\mathcal{N}$ . and 3 notches on  
 $\mathcal{S}$ . edges, dug pits 18 x 18 x 12 ins. S.  $\mathcal{N}$ . 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, bunchy grass,

8

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

Chains:

North between sections 15 and 16,

Variation 14° 19' East.

Descend.

40.00 Set a lava stone 12 x 10 x 3 ins., 8 ins. in the ground, for 1/4 Sec. Cor., marked 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, 9, 10, 15 & 16 marked T, 16 U.S. 10, on N, E, R, 31 E, S. 15 on S, E, S, 16 on S, W, and S, 9 on N, W, face with 4 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.

See 2<sup>nd</sup> rate

Vegetation, bunchgrass.

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

Chains.

East on a true line between sections 10 <sup>and</sup> 15.

Va. 14019' East.

Ascend.

22.82 Intersect Boundary line between Arizona and New Mexico at a point which bears 23.50 chs. N. from the 152<sup>nd</sup> Mile post, which is a post, set firmly in the ground, marked 152 on N.; N. M. on E.; 32° W. L. on S. and Ariz. on W. faces, with pits N. and S. of post, 6 ft. dist., and a mound of earth in good order around post, and

Set a post, 4 ft. long, 4 ins. square, 12 ins. in the ground, for <sup>clearing</sup> Cr. to Secs. 10 and 15 marked C.C. T. 16 N. R. 31 E., on W. S. 10 on N. and S. 15 on S. faces, with 4 notches on S. and 2 notch es on N. faces, dug pits 18 x 18 x 12 ins. N. S. 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> <sup>rate</sup>

Vegetation, bunchgrass.

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

North on a true line between sections 9 and 10.

Va. 14-19' East.

Descend.

- 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.
- 79.30 Intersect the 4<sup>th</sup> Standard Parallel West at a point 2.17 chs. East of the Standard Cor. to Secs. 33 and 34, T. 17 N. R. 31 E., which is a post, set firmly in the ground, marked S. E. N. 17 N., R. 31 E. on N. D. 34 on E. and S. 33 on W. faces, with 3 notches on E. and W. edges, pits, N., E. and W. of post, and a mound of earth, in good order, around post, and
- Set a post, 4 ft. long, 4 ins. square, 12 ins. in the ground, for <sup>closing</sup> Cor. to Secs. 9 and 10 marked C.C. T. 16 N. R. 31 E., on S. S. 10 on E. and S. 9 on W. faces, with 3 notches on E. and 3 notches on W. faces, dug pits 18 x 18 x 12 ins., S. and N. of post,  $5\frac{1}{2}$  ft. dist. and raised a mound of earth 2 ft. high,  $4\frac{1}{2}$  ft. base around post.

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

Land rolling.

Soil 2<sup>nd</sup> rate

Vegetation, *Cuneus mos.*

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

July 16<sup>th</sup> 1883.

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

## Chains.

On S. Bely of *J. H.*

From the corner to sections, 4, 5, 32<sup>am</sup> 33, which  
 is a post set firmly in the ground, marked  
 G. 16 N. S. 33 on N. E.; R. 31 E, S. H. and E.  
 G. 15 N. S. 5 on S. W. <sup>am</sup> S. 32 on N. W. face  
 with 4 notches on E. <sup>am</sup> 2 notches on  
 W. edges, with pits in each sec, 5 ft.  
 dist, and a mound of earth, in  
 good order, around post, from  
 North between sections 32<sup>am</sup> 33,

Variation / 3° 46' East.

Ascend.

40.00 Set a sand stone 14 x 12 x 6 ins., 9 ins.  
 in the ground, for  $\frac{1}{2}$  Sec. Cor., marked  $\frac{1}{2}$  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,  $3\frac{1}{2}$   
 ft. base along side.

80.00 Set a sand stone 13 x 12 x 4 ins., 9 ins.  
 in the ground for Cor. to Secs. 28, 29, 32, 33, marked  
 with 1 notch on S. and 4 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. along side.

Land rolling.

Soil 2<sup>nd</sup> rate

Vegetation, bunch grass.



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

## Chains.

East on a random line between sections 28 &amp; 33,

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

Ascend.

16.30 Top of Spur, bears  $N. E$  and  $S. W$  and descend.40.00 Set temporary  $\frac{1}{2}$  Sec. Cor.43.20 Cross Gulch, 5 lks. wide, Course  $N. 40^{\circ} E$  and ascend.

80.46 Intersect N. &amp; S. line, 11 lks. South of cor. to secs.

 $27.28.33$  &  $34$  from which corner, I run $S. 89^{\circ} 55'$  W. on a true line between sections 28 & 33,Variation  $14^{\circ}19'$  East

40.23 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.

50.46 The corner to sections 28, 29, 32 and 33,

Land rolling.

Soil 2<sup>nd</sup> rate

Vegetation, bunchgrasses.

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

## Chains:

North between sections 28 <sup>and</sup> 29,

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

Descend.

9.30 A Pine 10 ins, diam.

21.30 Cross Gulch, 10 lks. wide, Course  $42^{\circ}5'$  E and ascend.

40.00 Set a Sand stone  $24 \times 12 \times 4$  ins., 18 ins. in the ground, for  $\frac{1}{2}$  Sec. Cor., marked  $\frac{1}{2}$  on W. face, dug pits  $18 \times 18 \times 12$  ins., N, and  $15$  . 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.

80.00 Set a post 4 ft. long, 4 ins. square, with marked stone 12 ins. in the ground, for Cor. to Secs, 20, 21, 28 & 29, marked T, 16 N. S, 21, on N, E, R, 31 E, S. 28 on S, E, S, 29 on S, W, and S, 20 on N, W, face with 2 notch  $60$  on S, and 4 notch  $60$  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>was</sup> rate

Vegetation, *Caneymes*.

T. 16 N. R. 21 E. G. &amp; S. R. M.

## Chains.

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

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

Descend.

40.00 Set temporary  $\frac{1}{4}$  Sec. Cor.57.00 Cross Gulch, 10 lks. wide, Course  $439^{\circ}$  E and ascend.80.15 Intersect N. & S. line, 29 lks. south of cor. to secs.  
21, 22, 27 & 28, from which corner, I run $S. 59^{\circ}48' W.$  on a true line between sections 21 <sup>and</sup> 28,Variation  $14^{\circ}19'$  East40.07 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  $5\frac{1}{2}$   
ft. dist., and raised a mound of earth  $1\frac{1}{2}$  ft. high,  $3\frac{1}{2}$   
ft. base alongside.80.15 The corner to sections 20, 21, 28 <sup>and</sup> 29,

Land rolling.

Soil 2<sup>nd</sup> rate

Vegetation, bunchgrass.

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

Chains.

North between sections 20 and 21.

Variation 14019' East.

Ascend.

16.00 Top of Ridge, bears E. and 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.

80.00 Set a sandstone  $2 \times 9 \times 6$  ins.  $\frac{1}{8}$  ins.  
in the ground for Cor. to Secs. 16, 17, 20 & 21, marked  
with 3 notches on S. and 4 notches 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, brushy meadow.

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

Chains.

*East on a random line between sections 16 & 21.**Va. 14° 19' East.**Descend.*40.00 *Set temporary  $\frac{1}{2}$  Sec. Cor.*79.92 *Intersect N. & S. line, 9 lks. ~~North~~ of cor. to secs.**15, 16, 21 ~~and~~ from which corner, I run**N. 89° 56' W. on a true line between sections 16 <sup>and</sup> 21.**Variation 14° 19' East*39.96 *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.*79.92 *The corner to sections 16, 17, 20 <sup>and</sup> 21.**Land rolling.**Soil 2<sup>nd</sup> rate**Vegetation, brush grass*

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

Chains.

North between sections 16<sup>and</sup> 17.Variation  $14^{\circ}19'$  East.

Ascend.

40.00 Set a Sandstone  $11 \times 10 \times 9$  ins., 7 ins. in the ground, for  $\frac{1}{2}$  Sec. Cor., marked  $\frac{1}{2}$  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.

80.00 Set a Sandstone  $13 \times 10 \times 3$  ins. 9 ins. in the ground for Cor. to Secs. 8, 9, 16 & 17, marked with 4 notch  $\infty$  on S. and 4 notch  $\infty$  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, bunching meso.

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

Chains.

*East on a random line between sections 9 & 16.**Variation  $14^{\circ} 19'$  East.**Ascend.*40.00 *Set temporary  $\frac{1}{4}$  Sec. Cor.*79.63 *Intersect N. & S. line. 22 lks. North of cor. to secs.**9, 10, 15 & 16 from which corner, I run**N.  $89^{\circ} 51'$  W. on a true line between sections 9 <sup>and</sup> 16.**Variation  $14^{\circ} 19'$  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  $\frac{1}{4}$  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.*79.63 *The corner to sections 8, 9, 16 <sup>and</sup> 17.**Land rolling.**Soil 2<sup>nd</sup> rate**Vegetation, uncultivated.*

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

North on a true line between sections 8<sup>and</sup> 9,  
Va. 14° 19' East.

Descend.

40.00 Set a sand stone 15 x 10 x 6 ins., 10 ins.  
in the ground, for  $\frac{1}{2}$  Sec. Cor., marked  $\frac{1}{2}$  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, 3 $\frac{1}{2}$   
ft. base alongside.

78.59 Intersect the 4<sup>th</sup> Standard Parallel North at a  
point 2.41 chs. East of the Standard Cor. to  
Secs. 32 and 33 T. 17 N. R. 31 E., which  
is a sandstone, set firmly  
in the ground, marked V. C.  
with 4 notches on E. and 2  
notches on W. edges and a  
mound of stone, in good order  
along side, and

Set a sand stone 12 x 12 x 8 ins. 8 ins. in  
the ground for Closing Cor. to Secs. 8 and 9  
marked C. C. with 4 notches on E. and 2 notches on  
W. edges, dug pits 18 x 18 x 12 ins. S. E., and W. of  
stone, 5 $\frac{1}{2}$  ft. dist., and raised a mound of earth 2 ft.  
high 4 ft. base alongside.



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

Land rolling.

Soil 2<sup>nd</sup> rate

Vegetation, Onoclysses.

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

July 17<sup>th</sup> 1883.

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

From the corner to sections, 5, 6, 31 & 32, which is a post, set firmly in the ground, marked  
 T. 16 N., S. 2 on N. E.; R. 27 E., S. 5 and 6.  
 V. 15 N., S. 6 on S. W. <sup>and</sup> S. 31 on N. W. faces,  
 with 5 notches on E. <sup>and</sup> 1 notch on  
 W. edges, with pits, in each sec.,  
 5 1/2 ft. dist., and a mound of earth,  
 in good order around post, I run  
 North between sections 31 <sup>and</sup> 32.

Variation  $13^{\circ} 54'$  East.

Ascend.

40.00 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  
 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 sand stone 13 x 12 x 6 ins. 9 ins.  
 in the ground for Cor. to Secs. 29, 30, 31 & 32, marked  
 with 1 notch on S. and 5 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. alongside.  
 Land rolling.

Soil 2<sup>nd</sup> rate

Vegetation, bunch grass,

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

Chains.

East on a random line between sections 29 & 32,  
Variation  $14^{\circ}19'$  East.

Ascend.

21.00 Top of Ridge, bears  $U. 15^{\circ} W. 58.13^{\circ} E.$  and descend.

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

80.12 Intersect N. & S. line. 21 lks. South of cor. to secs.  
25, 29, 32 & 33 from which corner, I run

$S. 89^{\circ} 57' W.$  on a true line between sections 29 & 32  
Variation  $14^{\circ}19'$  East

40.06 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.

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

Land mountainous.

Soil 2<sup>nd</sup> rate

Vegetation, Canebrakes.

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

## Chains.

West, on a random line between sections 30 &amp; 31.

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

Descend.

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

42.00 Cross Wash, 10 lks. wide, Course N, and ascend.

79.50 Intersect W.B. of Tp. 17 lks. North of cor. to secs.

25, 30, 31 and 32, which is a sandstone, set firmly in the ground, marked with 1 notch on S. and 5 notches on N. edges with pits in each sec.,  $5\frac{1}{2}$  ft. dist., and a mound of earth, in good order alongside,

from which corner, I run

 $N. 87^{\circ} 53' E.$  on a true line, between sections 30 and 31.Variation  $14^{\circ} 19'$  East.

39.50 Set a sand stone  $14 \times 12 \times 9$  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.

79.50 The corner to sections 27, 30, 31 &amp; 32.

Land rolling.

Soil 2<sup>nd</sup> rate

Vegetation, brushy mes.

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

## Chains.

North between sections 29 and 30.

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

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., 27 and 5. 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 sand stone 13 x 11 x 7 ins. 9 ins.  
in the ground for Cor. to Secs. 19, 20, 29 & 30 marked  
with 2 notch 20 on S. and 5 notch 20 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 rolling.

Soil 2<sup>nd</sup> rate

Vegetation, grass, rag, moss.

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

East on a random line between sections 20 & 29.

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

Descend.

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

80.26 Intersect N. & S. line, 8 lks. South of cor. to secs.  
20, 21, 28 & 29 from which corner, I run  
589.57' W. on a true line between sections 20 <sup>and</sup> 29.  
Variation  $14^{\circ}19'$  East

40.13 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.

80.26 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. 3) L. C. &amp; S. R. M.

West. on a random line between sections 19 &amp; 30.

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

Ascend.

19.50 Top of Riage, bears  $N. 30^{\circ} E. \approx S. 30^{\circ} W.$  and descend.40.00 Set temporary  $\frac{1}{4}$  Sec. Cor.

79.36 Intersect W.B. of Tp. 13 lbs. South of cor. to secs.

19, 24, 25<sup>th</sup> & 30, which is a  
 level stone, set firmly in the  
 ground, marked with 2 notches  
 on S. and 4 notches on N. edges,  
 with a mound of earth and  
 stone, in good order  
 alongside,

from which corner, I run

S  $89^{\circ} 54' E.$  on a true line, between sections 19<sup>th</sup> & 30.Variation  $14^{\circ} 19'$  East.

39.36 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.79.36 The corner to sections 19, 20, 29<sup>th</sup> & 30.  
Land rolling.Soil 2<sup>nd</sup> rate

Vegetation, bunchgrass.

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

## Chains.

North between sections 19<sup>and</sup> 20.

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

Ascend.

40.00 Set a sandstone  $18 \times 8 \times 4$  ins., 10 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.

51.50 Top of Ridge, bears E.  $\frac{1}{2}$  W. and descend.

80.00 Set a post 4 ft. long, 4 ins. square, with marked stone 12 ins. in the ground, for Cor. to Secs, 17, 18, 19 & 20 marked T, 166. S. 17, on N. E. R., 31 E. S. 20 on S. E. S, 19 on S. W, and S, 18 on N. W, face with 3 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 around post.

Land mountainous.

Soil 2<sup>nd</sup> rate

Vegetation, brushy mes.



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

## Chains.

East on a random line between sections 17 & 20,

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

Ascend.

19.50 Top of Ridge, bears  $N. E. \frac{1}{4}$  S. W. and descend.

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

80.41 Intersect N. & S. line, 42 lks. South of cor. to secs.

16, 17, 20 & 21 from which corner, I run

$S. 87^{\circ}42' W.$  on a true line between sections 17 & 20.

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

40.20 Set a sand stone  $14 \times 11 \times 4$  ins., 9 ins.

in the ground, for  $\frac{1}{4}$  S. & S. 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 all around.

80.41 The corner to sections 17, 18, 19 and 20.

Land mountainous.

Soil 2<sup>nd</sup> rate

Vegetation, bunchgrass.

July 18<sup>th</sup> 1883.

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

## Chains.

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

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

Descend.

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

79.83 Intersect W. B. of Tp. 23 N. of cor. to secs.

13, 18, 19<sup>th</sup> & 24, which is  
a sandstone, set firmly in  
the ground, marked with  
3 notches on N. and S.  
edges, with a mound of  
stone, in good order,  
alongside,

from which corner, I run

N.  $89^{\circ}50'$  E. on a true line, between sections 18<sup>th</sup> & 19.Variation  $14^{\circ}19'$  East.

39.83 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.

79.83 The corner to sections 17, 18, 19<sup>th</sup> & 20.

Land rolling.

Soil 2<sup>nd</sup> rateVegetation, vineyards.

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

## Chains.

North between sections 17 and 18.

Variation,  $4^{\circ}19'$  East.

Descend.

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.

51.30 Cross Gulch, 21 lks. wide, Course  $S. 29^{\circ}W$  and ascend.

80.00 Set a sand stone 15 x 10 x 9 ins. 10 ins. in the ground for Cor. to Secs. 7, 8, 17 & 18, marked with 4 notches on S. and 5 notches 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 rolling.

Soil gla rate

Vegetation, bunchgrass.

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

East on a random line between sections 8 &amp; 17,

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

Descend.

40.00 Set temporary  $\frac{1}{4}$  Sec. Cor.80.57 Intersect N. & S. line, 33 lks. South of cor. to secs.  
8, 9, 16 & 17 from which corner, I runS.  $89^{\circ}46'$  W. on a true line between sections 8<sup>and</sup> 17,Variation  $14^{\circ}19'$  East40.29 Set a post 3 ft. long, 3 ins. diam. with marked stone  
12 i. s. in the ground, for  $\frac{1}{4}$  Sec. Cor., marked  $\frac{1}{2}$  S. onN. 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.80.57 The corner to sections 7, 8, 17 <sup>and</sup> 18.

Land rolling.

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

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

West on a random line between sections 7 & 18.

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

Ascend.

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

79.56 Intersect W. B. of Tp. 11 1ks. North of cor. to secs.

7, 12, 13<sup>rd</sup> & 18, which is a post set firmly in the ground, marked N. 16 N., S. 7 on N. E.

R. 31 E., S. 18 on S. E.

R. 30 E., S. 13 and W.  $\frac{1}{4}$  S. 12 on N. W. face, with 4 notches on S.  $\frac{1}{4}$  2 notches on N. edges, with pits in each sec,  $\frac{1}{4}$  an earth mound around post, from which corner, I run

N.  $89^{\circ} 55'$  E. on a true line, between sections 7 and 18.

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

39.56 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.

79.56 The corner to sections 7, 8, 17 and 18.

Land rolling.

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

Vegetation, bunchgrass.

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. 10019' East.

Ascend.

- 15.00 Top of Ridge, bears N. E. <sup>2nd</sup> S. W. and descend.
- 40.00 Set a post 3 ft. long, 3 ins. diam. with marked stone 2 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.
- 49.10 Cross Gulch, 10 lks. wide, Course N. 61° E and ascend.
- 78.80 Intersect the 4<sup>th</sup> Standard Parallel North, at a point 2.00 chs. East of the Standard Cor. to Secs. 31 and 32 T. 17 N. R. 31 E., which is a sandstone set firmly in the ground, marked O. C. with 1 notch on W. <sup>2nd</sup> and 5 notches on E. edges, with pits N., E. and W. of stone, 5' ft. dist., and a mound of earth, in good view alongside, and

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

## Chains.

Set a sand stone  $14 \times 10 \times 5$  ins.  $9$  ins. in the ground for Closing Cor. to Secs.  $7$  and  $8$ . marked C. C. with  $5$  notches on E. and  $1$  notch 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, and gate.

Land mountainous.

Soil 2<sup>nd</sup> rate

Vegetation bunching grass.

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

July 19<sup>th</sup> 1883.

### General Description.

The land in this township is mountainous and rolling.

The soil is 2<sup>nd</sup> rate, producing good bunchgrass, which affords excellent grazing facilities.

It is watered by numerous small streams which flow through it in various directions.

For final notes see book ON<sup>o</sup> 13 -



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

Tucson, Arizona,

July 26, 1884

The foregoing Field Notes of the Survey of the

Subdivision lines of Fractional  
 Township 16 North  
 Range 31 East

Of the Gila and Salt River Base and Meridian, Arizona, executed by A. C. Shoemaker,

Deputy Surveyor, under his contract of the

5th

day of

August

1884, having been

critically examined and the necessary corrections and explanations made, the said Field Notes and the surveys they describe

are hereby approved

Robert Johnson  
 Surveyor General.