

*letter
replied*

Book No. 17

A. P. Johnson Deputy Surveyor.

T. *21 North* R. *19 East*

Gila and Salt River Meridian.

No-398

FIELD NOTES

BOOK 398

OF

THE SUBDIVISION LINES OF

Township *21 North* Range *19 East*

Gila and Salt River Meridian.

BY

A. P. Johnson Deputy Surveyor.

Under his Contract of *Aug. 5th* 1882.

Survey Commenced *March 22nd* 1883

Survey Completed *March 24th* 1883

No 398

Platted,
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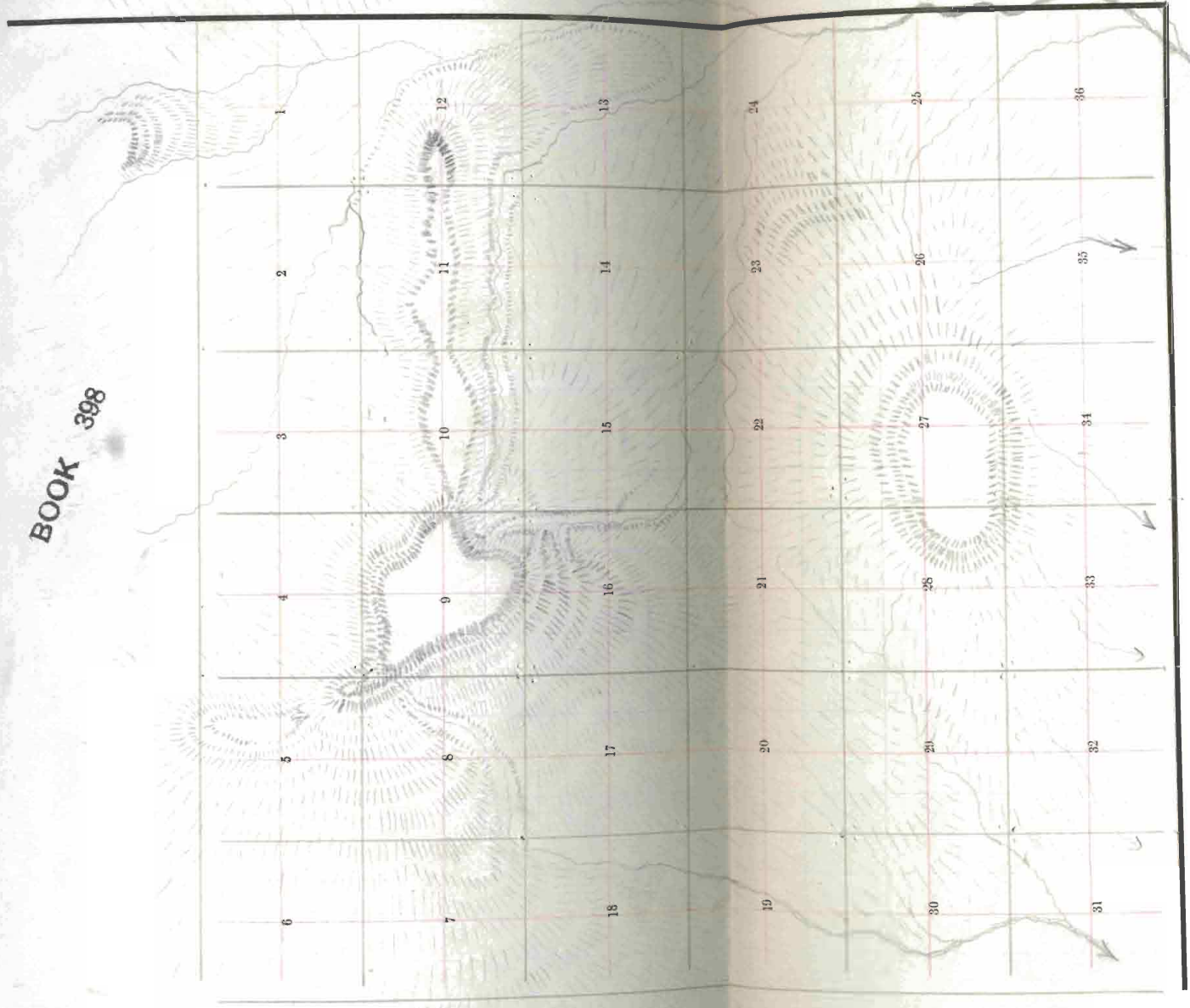
398

Township No. 21N

Range No. 39E

Meridian.

BOOK 398



TOWNSHIP PLOT

Meridian Line,

Base Line,

Standard Line,

Township Lines,

Section Lines,

Meander Lines,

Office Work.

BOOK 398

1A

BOOK 398

BOOK 398

Township 21 North, Range 19 East,
Sils and Salt River Basinal Meridian.

6	60	5	44	4	33	3	22	2	11	1
59		58		43		32		21		10
7	57	8	42	9	31	10	20	11	9	12
56		55		41		30		19		8
18	54	17	40	16	29	15	18	14	7	13
53		52		39		28		17		6
19	51	20	38	21	27	22	16	23	5	24
50		49		37		26		15		4
30	48	29	36	28	25	27	14	26	3	25
47		46		35		24		13		2
31	45	32	34	33	23	34	12	35	1	36

OK.

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Township

Range

Meridian.

For preliminary Data
and description of instrument
used see Book No. 1

Survey made with Buss's Patent Improved Solar
Compass, nearly new, and in first rate order. Made

by

C. A. Buss

of

Cass

Germany

in

1881

1 Township
(See previous page.)

21 N.

Range

19 E.

Gila and Salt River Meridian.

Chains

Standard

From the corner to Sections 35, 36, on the South boundary,

of Township
which is a sand stone
14 x 12 x 8 ins. 10 ins. in the
ground marked S. C., with
1 notch on E., and 5 notches
on W. edges and
a mound of stone alongside
run.

North between sections 35 & 36

Variation 14° 18' East.

Ascend.

40.00

Set a Flint stone 14 x 8 x 6 ins., 10
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 Flint stone 16 x 8 x 6 ins. 10 ins. in
the ground for Cor. to Secs. 25, 26, 35, 36 marked
with 1 notch on S. and 1 notch on E. edges and
raised a mound of stone alongside, Pits impracticable.

Land rolling.

Soil 3rd rate

Vegetation Grass.

Township 21 N

Range 19 E

Gila and Salt River Meridian.

Chains

East, on a random line between Sections 25 and 36.

Variation 13° 30' East.

Descend.

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

44.76 Cross Wash, 37 lks. wide, Course S. E. and ascend.

79.63 Intersect E. B. of Tp. 40 lks. N. of cor. to secs.
previously set by me.

25. 30. 31. 36 from which corner, I run

1. 89. 43. 11 on a true line, between sections 25 & 36.

Variation 11° 00' East.

39.82 Deposited a marked stone, 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., dug pits 18x18x12 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 over it. In E. pit drove a stake 2 ft. long, 2 in. square, 12 ins. in the ground, marked $\frac{1}{4}$ s. on N. face.

79.63 The corner to sections 25. 30. 31. 36

Land rolling.

Soil 3rd rate

Vegetation Grass

Timber of Juniper.

3 Township 21 N Range 19 E

Gila and Salt River Meridian.

Chains North, between Sections 25 and 26.

Variation 13° 30' East.

Ascend.

Top of Spur, bears ~~_____~~ and descend.

40.00 Set a Plumb stone 10 x 10 x 4 ins. 10 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.

46.60 Cross Wash, 20 lks. wide, Course S. E. and ascend.

80.00 Set a Plumb stone 10 x 10 x 8 ins. 10 ins. in the ground for Cor. to Secs. 23. 24. 25. 26 marked wth 2 notches on S. and 1 notch on E. edges and raised a mound of stone. alongside. Pits impracticable.

Land mountainous

Soil 3rd rate

Timber of Juniper

Vegetation. Grass.

Township 21 N Range 19 E

Gila and Salt River Meridian.

Chains East, on a random line between Sections 24 and 25.
Variation 13° 30' East.

Descend.

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

78.00 Cross Wash, 20 lks. wide, Course S. and ascend.

79.81 Intersect C. B. of Tp. 23 lks. N. of cor. to secs. previously set by me.

P. 24. 26. 32 from which corner, I run

N 19° 46' W on a true line, between sections 24 & 26

Variation 14° 00' East.

399.12 Set a sand stone 14 x 7 x 5 ins., 9 ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on N face, dug pits 18 x 18 x 12 ins., E and N. 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.

79.81 The corner to sections 23. 24. 26. 26

Land rolling.

Soil 3rd rate

Vegetation Grass.

Timber of Juniper.

Township

21 N

Range

19 E

Gila and Salt River Meridian.

Chains

North, between Sections 23 and 24.

Variation 13° 30' East.

Ascend.

29.00 Top of Spur, bears S. 50° E. 1.50 and descend.

30.00 Set a *Plum* stone 12 x 10 x 8 ins. 8 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on face and raised a mound of stone. alongside.

Pits impracticable.

80.00

Set a *Plum* stone 10 x 10 x 4 ins. 10 ins. in the ground for Cor. to Secs. 13, 14, 23, 24 marked with 3 notches on S. and 1 notch on E. edges and raised a mound of stone. alongside. Pits impracticable.

Land mountainous.

Soil 3:2 rate

Vegetation *Yucca*.

Timber of *Juniper*.

Township

21

Range

19

E

Gila and Salt River Meridian.

Chains

East, on a random line between Sections 13 and 24.

Variation $13^{\circ} 30'$ East.*Descend.**Cross Wash, 16* ~~16~~ *lks. wide, Course* ~~and ascend.~~*Top of Spur, bears* ~~and descend.~~40.00 Set temporary $\frac{1}{4}$ Sec. Cor.40.06 *Cross Wash, 16* ~~16~~ *lks. wide, Course* 127° ~~and ascend.~~80.14 Intersect E. B. of Tp. 16 lks. S. of cor. to secs.
previously set by me.

13, 15, 19, 21 from which corner, I run

21 $89^{\circ} 53'$ N on a true line, between sections 13 & 21Variation $13^{\circ} 45'$ East.40.07 Set a *Flint* stone $16 \times 8 \times 4$ ins. 10ins. 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.

80.14 The corner to sections 13, 14, 23, 24

*Land mountainous.**Soil 3^d rate**Vegetation Grass.**Timber of juniper.*

Township 21 N.

Range 19 E.

Gila and Salt River Meridian.

Chains North, between Sections 13 and 14.

Variation 13° 30' East.

Ascend.

20.00 Top of Spur, bears E. & W. and descend.

45.00 Set a Sand stone 20 x 13 x 11 ins. 10
ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on
 face and raised a mound of stone. alongside.

Pits impracticable.

80.00 Set a Sand stone 20 x 16 x 15 ins. 15 ins. in
 the ground for Cor. to Secs. 11, 12, 13, 14 marked
 with 4 notches on S. and 1 notch on E. edges
 and raised a mound of stone. alongside. Pits impracticable.

Land mountainous.

Soil 3rd rate

Vegetation Grass.

Township

21 N.

Range

19 E.

Gila and Salt River Meridian.

Chains

East, on a random line between Sections 12 and 13.

Variation 18° 30' East.

Descend.

16.11 Cross Wash, 18 lks. wide, Course S. E. and ascend.

31.22 Top of Spur, bears N. S. and descend.

40.00 Set temporary 1/4 Sec. Cor.

50.72 Cross Wash, 18 lks. wide, Course S. and ascend.

59.98 Intersect E. B. of Tp. 8 lks. N. of cor. to secs. previously set by me. S. 12. 13. 15 from which corner, I run

55 N. 79° 52' on a true line, between sections 12 = 13

Variation 14° 30' East.

39.99 Set a Sand stone 16 x 10 x 6 ins. 10 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on N. face and raised a mound of stone. alongside.

Pits impracticable.

79.98 The corner to sections 11, 12, 13, 14

Land mountainous.

Soil 3rd rate

Vegetation Grass

Township

21 N

Range

19 E

Gila and Salt River Meridian.

Chains

North, between Sections 11 and 12.

Variation $18^{\circ} 30'$ East.

Descend.

10.65 Cross Wash, 120 lks. wide, Course S. E. and ascend.

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

Pits impracticable.

41.20 Top of Spur, bears S. E. W. and descend.

80.00 Set a Sand stone $17 \times 10 \times 7$ ins. 12 ins. in the ground for Cor. to Secs. 1, 2, 11, 12 marked with 5 notch on S. and 1 notch on E. edges and raised a mound of stone alongside. *Pits impracticable.*

Land mountainous.

Soil 3rd rate

Vegetation Grass,

Township 21 N Range 19 E

Gila and Salt River Meridian.

Chains East, on a random line between Sections 1 and 12.
Variation $13^{\circ} 30'$ East.

Descend.

30.00 Cross Wash, 20 lks. wide, Course S. E. and ascend.

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

66.76 Cross Wash, 30 lks. wide, Course S. and ascend.

80.88 Intersect E. B. of Tp. 22 lks. N. of cor. to secs. previously set by me.

1.6. 7. 12 from which corner, I run

1.89. 0. 11 on a true line, between sections 1 & 12

Variation $41^{\circ} 15'$ East.

40.19 Deposited a marked stone, 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., dug pits $18 \times 18 \times 12$ 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 over it. In E. pit drove a stake 2 ft. long, 2 in. square, 12 ins. in the ground, marked $\frac{1}{4}$ s. on N. face.

80.88 The corner to sections 1, 2, 11, 12

Land rolling.

Soil 3^{rd} rate

Vegetation Grass.

Township 21 N Range 19 E

Gila and Salt River Meridian.

Chains North, on a random line between Sections 1 and 2.

Variation $13^{\circ} 30'$ East.*Ascend.*3.50 Cross Wash, 40 lks. wide, Course \bar{C} . and ascend.40.00 Set temporary $\frac{1}{4}$ Sec. Cor.49.61 Intersect N.B. of Tp. 22 lks. W. of cor. to secs.
previously set by me.

1. 2. 36. 36 from which corner, I run

S. 9. W. on a true line, between sections 1 & 2

Variation $13^{\circ} 30'$ East.39.61 Set a sand stone $10 \times 10 \times 6$ ins. $\frac{1}{4}$ to
ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on
face and raised a mound of stone alongside.*Pits impracticable.*

79.61 The corner to sections 1. 2. 11. 12

*Land rolling.*Soil 3^{rd} rateVegetation *Grass.*

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

A. P. Johnson. March 22nd 1883

Township 21 N. Range 19 E.

Gila and Salt River Meridian.

Chains

Standard
From the corner to sections, 34 & 35 on S. Ry of J.P.,
which is a lava stone
24 x 7 x 3 ins. 18 ins. in
the ground marked
S. E. with 2 notches
on E. and 4 notches
on W. edge and
raised a mound of
stone alongside.

I run
North between sections 34 & 35

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

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
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 Basalt stone 16 x 10 x 6 ins. 10 ins. in
the ground for Cor. to Secs. 26, 27, 34, 35 marked
with 1 notch on S. and 2 notches on E. edges and
raised a mound of stone alongside. Pits impracticable.

Land rolling.

Soil 3rd rate

Vegetation Grass.

Township

21 N.

Range

19 E.

Gila and Salt River Meridian.

Chains

East, on a random line between Sections 26 and 35.

Variation 13° 30' East.

Descend.

37.60 Cross Wash, 20 lks. wide, Course S. and ascend.

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

60.00 Top of Spur, bears N.W. & S.E. and descend.

80.42 Intersect N. & S. line, 10 lks. N. of cor. to secs.

25.26. 35.36 from which corner, I run

N. 89° 56' W. on a true line between sections 26 & 35

Variation 13° 30' East

40.21 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.

80.42 The corner to sections 26. 27. 34. 35

Land mountainous.

Soil 3rd rate

Vegetation Grass.

Township 21 N. Range 19 E.

Gila and Salt River Meridian.

Chains North, between Sections 26 and 27.

Variation $13^{\circ} 30'$ East.*Ascend.*

40.00 Set a Basall- stone $20 \times 10 \times 10$ 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.

57.63 Top of Spur, bears N. E. & S. W. and descend.

80.00 Set a Basall- stone $16 \times 10 \times 10$ ins. 10 ins. in the ground for Cor. to Secs. 22, 23, 26, 27 marked with 2 notches on S. and 2 notches on E. edges and raised a mound of stone alongside. Pits impracticable.

Land mountainous.

Soil 3rd rate

Vegetation Grass.

Township

21 N

Range

19 E

Gila and Salt River Meridian.

Chains

East, on a random line between Sections 23 and 26.

Variation 13° 30' East.

Descend.

- 40.00 Set temporary $\frac{1}{4}$ Sec. Cor.
- 80.13 Intersect N. & S. line, 19 lks. S. of cor. to secs. 23, 24, 25, 26 from which corner, I run S. 89° 52' W. on a true line between sections 23 & 26
Variation 13° 30' East
- 40.06 Set a Basalt stone 20 x 10 x 10 ins., 15 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.
- 80.13 The corner to sections 22, 23, 26, 27
Land rolling.
Soil 3rd rate
Vegetation Grass.
Timber of Juniper.

Township 21 N Range 19 E

Gila and Salt River Meridian.

Chains

North, between Sections 22 and 23.

Variation $3^{\circ} 30'$ East.*Descend.*

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., S. 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.

69.50 Cross Wash, 75 lks. wide, Course N. 80° E and ascend.

80.00 Set a Flint stone $24 \times 10 \times 8$ ins. 18 ins. in the ground for Cor. to Secs. 14, 15, 22, 23 marked with 3 notches on S. and 2 notches on E. edges and raised a mound of stone alongside. Pits impracticable.

Land rolling.

Soil 3rd rate

Vegetation Grass.

Timber of Juniper.

Township

21 N

Range

19 E

Gila and Salt River Meridian.

Chains

East, on a random line between Sections 14 and 23.

Variation 13° 30' East.

Descend.

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

79.88 Intersect N. & S. line, 25 lks. N. of cor. to secs.

13. 14. 23. 24 from which corner, I run

N. 89° 45' W. on a true line between sections 14 & 23

Variation 13° 30' East

39.94 Set a Flint stone 16 x 9 x 3 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.

59.88 The corner to sections 14. 15. 22. 23

Land rolling.

Soil 3:° rate

Vegetation Grass.

Township

21 A

Range

19 8

Gila and Salt River Meridian.

Chains

North, between Sections 14 and 15.

Variation

13° 30'

East.

Ascend.

4000 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., 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 Basalt stone 14 x 12 x 9 ins. 12 ins. in the ground for Cor. to Secs. 10. 11. 14. 15 - marked with 4 notches on S. and 2 notches on E. edges and raised a mound of stone. alongside. Pits impracticable.

*Land rolling.*Soil 2nd rate

Vegetation Grass.

Timber of juniper.

Township 21 N Range 19 E

Gila and Salt River Meridian.

Chains East, on a random line between Sections 11 and 14.

Variation $13^{\circ} 30'$ East.

Descend.

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

80.81 Intersect N. & S. line, 11 lks. - S. of cor. to secs.

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

$89^{\circ} 6' 6''$ W. on a true line between sections 11 & 14

Variation $13^{\circ} 30'$ East

40.10 Set a Basalt-stone $14 \times 10 \times 4$ ins. 10 ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on face and raised a mound of stone alongside.

Pits impracticable.

80.31 The corner to sections 10, 11, 14, 15

Land rolling.

Soil 3rd rate

Vegetation Grass.

Timber of Juniper.

Township 21 N

Range 19 E

Gila and Salt River Meridian.

Chains

North, between Sections 10 and 11.

Variation 18° 30' East.

Descend.

26.30

Cross Wash, 8 lks. wide, Course E, 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 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 Sand stone 17 x 12 x 7 ins. 12 ins. in the ground for Cor. to Secs. 2, 3, 10, 11 marked with 0 notches on S. and 2 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.

Land rolling.

Soil 3rd rate

Vegetation Grass.

Township 21 N Range 19 E

Gila and Salt River Meridian.

Chains East, on a random line between Sections 2 and 11.
Variation $13^{\circ} 30'$ East.

Descend.

36.75 Enter Wash Course E.

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

43.91 Leave Wash Course $N. 87^{\circ} E$ and ascend

77.82 Intersect N. & S. line, 41 - lks. S. of cor. to secs.

1, 2, 11, 12 from which corner, I run

$189^{\circ} 42'$ W. on a true line between sections 2 & 11

Variation $13^{\circ} 30'$ East

39.91 Set a sand stone $20 \times 16 \times 7$ ins. 15 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.

79.82 The corner to sections 2, 3, 10, 11

Land rolling.

Soil 3^{rd} rate.

Vegetation Grass.

Timber of Juniper.

Township 21 N. Range 19 E.

Gila and Salt River Meridian.

Chains North, on a random line between Sections 2 and 3.
Variation $13^{\circ} 30'$ East.

*Descend.*36.26 Cross Wash, 18 lks. wide, Course *S. E.* and ascend.40.00 Set temporary $\frac{1}{4}$ Sec. Cor.80.22 Intersect N. B. of Twp. 6 lks. *E.* of cor. to secs.
*previously set by me.*2. 3. 34. 35⁻ \wedge from which corner, I run*S. 3' E.* on a true line, between sections 2 & 3Variation $13^{\circ} 30'$ East.

40.22 A Juniper 10 in. diam. which I marked $\frac{1}{4}$ S.
on W. face, for $\frac{1}{4}$ sec. cor., dug pits, 18 x 18 x 12 ins.
N. and S. of tree, $5\frac{1}{2}$ ft. dist. and raised a mound
of earth around tree.

80.22 The corner to sections 3, 3, 10, 11

Land rolling.

Soil 3rd rate

Vegetation Grass.

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

G. M. Basin, Compassman March 22nd 1883

Township 21 N. Range 19 E.

Gila and Salt River Meridian.

Chains *Standard*
 From the corner to sections, 33 & 34 on S. Ry of Sp.
 which is a sand
 stone 24 x 14 x 12 ins. 18 ins.
 in the ground marked
 S. C. with 3 notches on
 E. and 3 notches on W.
 edges and a mound of
 stone alongside.

North between sections 33 & 34

Variation 14° 18' East.

Ascend.

21.00 Cross Wash, 20 fts. wide, Course S. W.

40.00 Set a Basalt-stone 15 x 9 x 4 ins., 16
 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on W.
 face, and raised a mound of stone alongside. Pits

impracticable.

74.00
 80.00 Ascend abruptly.
 Set a Basalt-stone 20 x 15 x 8 ins. 15 ins. in
 the ground for Cor. to Secs. 27, 28, 33, 34 marked
 with 1 notch on S. and 3 notches on E. edges and
 raised a mound of stone alongside. Pits impracticable.

Land rolling.

Soil 3rd rate

Vegetation Grass.

Township

21 N.

Range

19 E.

Gila and Salt River Meridian.

Chains

East, on a random line between Sections 27 and 34.

Variation $13^{\circ} 30'$ East.*Descend.*40.00 Set temporary $\frac{1}{4}$ Sec. Cor.

80.19 Intersect N. & S. line, 20 lks. N. of cor. to secs.

26. 27. 34. 36 from which corner, I. run

N. $89^{\circ} 51'$ W. on a true line between sections 27 & 34Variation $13^{\circ} 30'$ East

40.09 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.

80.19 The corner to sections 27, 28, 33, 34

Land rolling.

Soil 3rd rate

Vegetation Grass.

Township 21 N. Range 19 E.

Gila and Salt River Meridian.

Chains North, between Sections 27 and 28.

Variation $13^{\circ} 30'$ East.*Ascend.*

6.50 Mesa bears E. & W. & descend.
 39.89 Edge of bluff bears N. 80° E. & S. 80° W.
 40.00 Set a Basalt-stone $16 \times 12 \times 6$ ins., 10
 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, 21. 22. 27. 28
 marked T, 21 N. S. 22, on N, E, R, 19 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 $18 \times 18 \times 12$ 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 3rd rate

Vegetation Grass.

Township

21 N

Range

19 E

Gila and Salt River Meridian.

Chains

East, on a random line between Sections 22 and 27.

Variation 13° 30' East.

Ascend.

36.00 Top of Spur, bears N. 2° S. and descend.

40.00 Set temporary 1/4 Sec. Cor.

80.28 Intersect N. & S. line, 82 lks. N. of cor. to secs.

22. 23. 26. 27 from which corner, I run

S. 99° 46' W. on a true line between sections 22 & 27

Variation 13° 30' East

40.10 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.

10.25 The corner to sections 21. 22. 27. 28

Land rolling.

Soil 3rd rate

Vegetation Grass

Timber of Juniper

Township 21 N Range 19 E

Gila and Salt River Meridian.

Chains

North, between Sections 21 and 22.

Variation 13° 36' East.*Descend.*

11000 Set a *Flint* stone $16 \times 10 \times 8$ 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.

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*, 21 *N.S.*, 15, on *N*, *E*, *R*, 19 *E*, *S.* 22 on *S*, *E*, *S*, 21 on *S*, *W*, and *S*, 14 on *N*, *W*, face 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 around post.

Land rolling.

Soil 3rd rateVegetation *Grass*.Timber of *Juniper*.

Township 21 N

Range 19 E

Gila and Salt River Meridian.

Chains

East, on a random line between Sections 15 and 22.

Variation 13° 30' East.

Descend.

17.20 Cross Wash, 20 lks. wide, Course S. E. continue descend

39.00 Cross Wash, 20 lks. wide, Course N. 87° E. continue descend

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

67.09 Cross Wash, 30 lks. wide, Course S. 80° E.

79.87 Intersect N. & S. line, 20 lks. S. of cor. to secs.

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

S. 89° 49' W. on a true line between sections 15 & 22

Variation 13° 30' East

39.93 Set a Flint-stone 16 x 12 x 8 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.

79.87 The corner to sections 15, 16, 21, 22.

Land rolling.

Soil 3rd rate

Vegetation Gnase.

Township 21 N Range 19 E

Gila and Salt River Meridian.

Chains North, between Sections 15 and 16.

Variation $13^{\circ} 30'$ East.

Descend.

2.10 Cross Wash, 10 lks. wide, Course S. 87^E and ascend.

40.00 Set a Sand stone $47 \times 26 \times 6$ ins. 30 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 Basalt - stone $14 \times 12 \times 7$ ins. 10 ins. in the ground for Cor. to Secs. 9. 10. 15. 16 marked with 4 notches on S. and 3 notches on E. edges and raised a mound of stone. alongside. Pits impracticable.

Land rolling.

Soil 3' rate

Vegetation Grass.

Timber of Juniper.

Township 21 N Range 19 E

Gila and Salt River Meridian.

Chains

East, on a random line between Sections 10 and 15.

Variation 13° 30' East.*Descend.*40.00 Set temporary $\frac{1}{4}$ Sec. Cor.79.72 Intersect N. & S. line, 311 lks. S. of cor. to secs.10. 11. 14. 15 from which corner, I run1. 29. 45' W. on a true line between sections 10 & 15Variation 13° 30' East39.80 Set a Sand stone 19 x 18 x 7 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 impracticable.

79.72 The corner to sections 9. 10. 15. 16

Land rolling.

Soil 3rd rateVegetation Grass.

Township 21 N. Range 19 E.

Gila and Salt River Meridian.

Chains North, between Sections 9 and 10.

Variation 13° 30' East.

Ascend.

20.00 Top of butte 100 E.

40.00 Set a Basalt-stone 17 x 12 x 7 ins. 12 ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on face and raised a mound of stone. alongside.

Pits impracticable.

80.00 Set a Basalt-stone 17 x 12 x 5 ins. 12 ins. in the ground for Cor. to Secs. 3. 4. 9. 10 marked with 6 notches on S. and 3 notches on E. edges and raised a mound of stone. alongside. Pits impracticable.

Land rolling.

Soil 3rd rate

Vegetation Grass.

Timber of juniper

Township 21 N Range 19 E

Gila and Salt River Meridian.

Chains East, on a random line between Sections 3 and 10.
Variation $13^{\circ} 30'$ East.

Descend.

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

79.63 Intersect N. & S. line. 22 lks. N of cor. to secs.

2, 3, 10, 11 from which corner, I run

N. 99. 97' W. on a true line between sections 3 & 10

Variation $13^{\circ} 30'$ East

79.81 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.

79.83 The corner to sections 3, 4, 9, 10

Land rolling.

Soil 3rd rate

Vegetation Grass.

Timber of juniper.

Township 21 N Range 19 E

Gila and Salt River Meridian.

Chains

North, on a random line between Sections 3 and 4.

Variation 13° 30' East.

Descend.

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

80.15 Intersect N. B. of Tp. 32 lks. E. of cor. to secs. previously set by me.

3.4.32. 34 from which corner, I run

S. 124° E. on a true line, between sections 3 & 4.

Variation 13° 30' East.

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.

The corner to sections 3, 4, 9, 10

Land rolling.

Soil 3rd rate

Vegetation Grass

Timber of Juniper.

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

A. P. Johnson. March 23rd 1883

Township 21 N Range 19 E

Gila and Salt River Meridian.

Chains

Standard
From the corner to sections, 32 & 33 on S. Bay of Sp-
which is a sand stone
20 x 14 x 4 ins. 15 ins. in
the ground marked S.C.
with 4 notches on E.
and 2 notches on W. edges
and a mound of
stone alongside
I run

North between sections 32. & 33

Variation 14° 18' East.

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
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, 28, 29, 32, 33
marked T, 21 N, S, 28, on N, E, R, 19 E, S, 33
on S, E, S, 32 on S, W, and S, 29 on N, W, face
with 1 notch 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
around post.

Land rolling.

Soil 3rd rate Timber of Juniper.

Vegetation Grass.

Township 21 N Range 19 E

Gila and Salt River Meridian.

Chains East, on a random line between Sections 28 and 33.
Variation $13^{\circ} 33'$ East.

ascend.

40.00 Set temporary $\frac{1}{4}$ Sec. Cor.74.50 Top of butte bears $N. 40^{\circ} E.$ & $S. 40^{\circ} W.$ and descend

79.52 Intersect N. & S. line, 46 lks. S. of cor. to secs.

27. 28. 33. 34 from which corner, I run

 $S. 89^{\circ} 40' W.$ on a true line between sections 28 & 33Variation $13^{\circ} 30'$ East

89.76 Set a sand stone $18 \times 18 \times 16$ 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
impracticable.

79.52 The corner to sections 28. 29. 32. 33

Land rolling.

Soil 3^{rd} rate

Vegetation Grass.

Timber of Juniper.

Township 21 N Range 19 E

Gila and Salt River Meridian.

Chains

North, between Sections 28 and 29.

Variation $13^{\circ} 30'$ East.*Ascend.*

- 5.00 Top of Spur, bears N. E. & 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.
- 56.00 Cross Wash, 30 fks. wide, Course S. W. and ascend.
- 80.00 Set a Basalt- stone 20 x 12 x 12 ins. 16 ins. in the ground for Cor. to Secs. 20, 21, 28, 29 marked with 2 notches on S. and 4 notches on E. edges and raised a mound of stone alongside. Pits impracticable.

Land mountainous.

Soil 3rd rate

Vegetation Grass.

Township 21 N. Range 19 E.

Gila and Salt River Meridian.

Chains East, on a random line between Sections 21 and 28.

Variation $13^{\circ} 30'$ East.*Ascend.*

17.00 Cross Wash, 20 lks. wide, Course S. W. and ascend.

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

79.87 Intersect N. & S. line, 16 lks. S. of cor. to secs.

21. 22. 27. 28 from which corner, I run

S. $89^{\circ} 53'$ W. on a true line between sections 21 & 28Variation $13^{\circ} 30'$ East

39.93 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.

79.87 The corner to sections 20. 21. 28. 29

Land rolling.

Soil 3rd rate

Vegetation Grass.

Timber of Juniper.

Township

21 N

Range

19 E

Gila and Salt River Meridian.

Chains

North, between Sections 20 and 21.

Variation

13° 30'

East.

Ascend.

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 Basalt-stone 20 x 10 x 10 ins. 18 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 3rd rate

Vegetation: Grass.

Township 21 N Range 19 E

Gila and Salt River Meridian.

Chains

East, on a random line between Sections 16 and 21.

Variation 10° 30' East.

Ascend.

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

68.87 Top of Ridge, bears N. & S. and descend.

80.23 Intersect N. & S. line, 37 lks. N. of cor. to secs.

16. 16. 21. 22 from which corner, I run

N. 89° 44' W. on a true line between sections 16 & 21

Variation 13° 30' East

40.11 Deposited a marked stone, 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., dug pits 18x18x12 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 over it. In E. pit drove a stake 2 ft. long, 2 in. square, 12 ins. in the ground, marked $\frac{1}{4}$ s. on N. face.

80.23 The corner to sections 16. 17. 20. 21

Land mountainous.

Soil 3rd rate

Vegetation Grass.

Township 21 N Range 19 E

Gila and Salt River Meridian.

Chains

North, between Sections 16 and 17.

Variation 1° 30' East.*Ascend.*40.00

Set a Basalt stone 30 x 10 x 9 ins. 21
 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 Basalt stone 20 x 16 x 10 ins. 16 ins. in
 the ground for Cor. to Secs. 8. 9. 10. 11 marked
 with 4 notches on S. and 4 notches on E. edges
 and raised a mound of stone alongside. *Pits impracticable.*

*Land rolling.*Soil 3rd rateVegetation Grass.Timber of juniper.

Township

21 N

Range

19 E

Gila and Salt River Meridian.

Chains

East, on a random line between Sections 9 and 16.

Variation $12^{\circ} 30'$ East.*Ascend.*16.00 Top of butte base N. 20° W. S. 20° E.40.00 Set temporary $\frac{1}{4}$ Sec. Cor.

79.96 Intersect N. & S. line, 8 lks. S. of cor. to secs.

9, 10, 16 from which corner, I run

S. $89^{\circ} 57'$ W. on a true line between sections 9, 10, 16Variation $13^{\circ} 30'$ East

32.27 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.

79.46 The corner to sections 8, 9, 16, 17

Land rolling.

Soil 3rd rate

Vegetation Grass.

Township 21 N Range 19 E

Gila and Salt River Meridian.

Chains North, between Sections 8 and 9.

Variation 12° 30' East.

Ascend.

21.00 Enter Flat bears N. 20° W. 200 S. 20° E.

40.00 Set a Sand stone 20 x 10 x 10 ins. 10 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.

40.50 Descend.

80.00 Set a Basalt stone 20 x 6 x 6 ins. 10 ins. in the ground for Cor. to Secs. 11, 15, 8, 9 marked with 5 notches on S. and 11 notches on E. edges and raised a mound of stone alongside. Pits impracticable.

Land level. rolling.

Soil 3rd rate

Vegetation Grass

Timber of Juniper

Township 21 N

Range 19 E

Gila and Salt River Meridian.

Chains

East, on a random line between Sections 4 and 9.

Variation 13° 30' East.

Descend.

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

80.20 Intersect N. & S. line. 10 lks. N. of cor. to secs.

3, 4, 9, 10 from which corner, I run

N. $89^{\circ} 56'$ W. on a true line between sections 4 & 9

Variation 13° 30' East

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 $\frac{1}{4}$ 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.

80.20 The corner to sections 4, 9, 10, 11

Land rolling.

Soil 3rd rate

Vegetation Grass

Timber of Juniper

Township 21 N. Range 19 E.

Gila and Salt River Meridian.

Chains North, on a random line between Sections 4 and 5.
Variation $13^{\circ} 30'$ East.

Descend.

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

79.76 Intersect N. B. of Tp. 18 lks. E. of cor. to secs.
4, 5, 32, 33 ^{previously set by me.} from which corner, I run

S. 8' E. on a true line, between sections 4 & 5
Variation $13^{\circ} 30'$ East.

39.76 Set a Recall-stone 16 x 10 x 5 ins., 10
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.

79.76 The corner to sections 4, 5, 8, 9

Land rolling.

Soil 3rd rate

Vegetation Grass.

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

G. M. Cannon, Compassman, March 23rd 1882

Township 21 N. Range 19 E.

Gila and Salt River Meridian.

Chains *Standard*
 From the corner to sections, 31 & 32 on S. By of Sp-
 which is a lava stone
 24 x 10 x 5 ins. 18 ins. in
 the ground marked S. C.
 with 5 notches on E.
 and 1 notch on W. edges
 and a mound
 of stone alongside.

North between sections 31 & 32

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

Descend.

25.00 Cross Wash, 20 lks. wide, Course S. W. and ascend.

40.00 Deposited a marked stone, 12 ins. in the ground, for
 $\frac{1}{2}$ sec. cor., dug pits 18x18x12 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 over it. In N. pit drove a stake 2
 ft. long, 2 in. square, 12 ins. in the ground, marked $\frac{1}{2}$
 s. on W. face.

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. 21 N. S. 29, on N, E, R, 19 E, S. 32
 on S, E, S, 31 on S, W, and S, 30 on N, W, face
 with 1 notch 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
 around post. from which
 Cedar 10 ins. diam. bears N. $13^{\circ} 49'$ W. 42 lks. dist,
 marked T. 21 N. R. 19 E. S. 30 No other trees within limits.

Land rolling.

Soil 3rd rate

Vegetation Grass.

Timber of Cedar.

Township 21 N Range 19 E

Gila and Salt River Meridian.

Chains East, on a random line between Sections 29 and 32.
Variation $13^{\circ} 30'$ East.

Descend.

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

80.25 Intersect N. & S. line, 22 lks. S. of cor. to secs.

28, 29, 32, 33 from which corner, I run

S. $89^{\circ} 46'$ W. on a true line between sections 29 & 32
Variation $13^{\circ} 30'$ East

40.12 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.

80.25 The corner to sections 29, 30, 31, 32

Land rolling.

Soil 3rd rate

Vegetation Sparse.

L. P. Robinson. March 24th 1883

Township

21 N.

Range

19 E.

Gila and Salt River Meridian.

Chains

West, on a random line between Sections 30 and 31.

Variation $13^{\circ} 30'$ East.

Descend.

1.90 Cross Wash, 40 lks. wide, Course S. 40 W. and ascend.

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

Top of Spur, bears N. e S. and descend.

42.00 Cross Wash, 30 lks. wide, Course S. and ascend.

79.76 Intersect W. B. of Tp. 26 lks. S. of cor. to secs.
previously set by me.

25.30 31.36 from which corner, I run

S. $89^{\circ} 49'$ E. on a true line, between sections 30 & 31Variation $13^{\circ} 30'$ East.39.76 Set a Flint-stone $15 \times 8 \times 4$ ins., 10 ins.
in the ground, for $\frac{1}{2}$ Sec. Cor., marked $\frac{1}{2}$ 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.

79.76 The corner to sections 29, 30, 31, 32

Land mountainous.

Soil 3rd rate

Vegetation Grass.

G. M. Carson, Compassman. March 24th 1883

Township 21 N Range 19 E

Gila and Salt River Meridian.

Chains North, between Sections 29 and 30.

Variation 10° 30' East.*Descend.*5.00 Cross Wash, 40 fks. wide, Course S. 49° W and ascend.40.00 Set a Flint stone 20 x 10 x 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.50.00 Pits impracticable.70.00 Cross Wash, 80 fks. wide, Course S. W. and ascend.80.00 Set a Flint stone 24 x 10 x 6 ins. 10 ins. in the ground for Cor. to Secs. 19. 20. 29. 30 marked with 2 notches on S. and 4 notches on E. edges and raised a mound of stone. alongside. Pits impracticable.

Land rolling.

Soil 3rd rateVegetation GrassTimber of Juniper.

Township 21 N

Range 19 E

Gila and Salt River Meridian.

Chains

East, on a random line between Sections 20 and 29.

Variation 13° 30' East.

Descend.

9.110 Cross Wash, 20 lks. wide, Course S. W. and ascend.

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

Top of Spur, bears NE & S. W. and descend.

Intersect N. & S. line, 12 lks. S. of cor. to secs.

20, 21, 28, 29 from which corner, I run

8.59.55' W. on a true line between sections 20 & 29

Variation 13° 30' East

39.96 Set a Quartz stone 20 x 10 x 8 ins., 15' ins.

in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on N. face, dug pits 18 x 18 x 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.

59.22 The corner to sections 19, 20, 27, 28

Land mountainous.

Soil 3rd rate

Vegetation Grass.

Timber of Juniper.

A. S. Johnson. March. 24th 1883

Township

Range

Gila and Salt River Meridian.

Chains

West, on a random line between Sections 19 and 30.

Variation 13° 30' East.

Ascend.

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

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

52.00 Cross Wash, 20 lks. wide, Course $\frac{1}{2}$ N and ascend.

72.47 Intersect W. B. of Tp. 18 lks. N. of cor. to secs. previously set by me.
19. 24. 25. 30 from which corner, I run

1189.02 on a true line, between sections 19 & 30
Variation 13° 30' East.

39.47 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.

79.47 The corner to sections 19. 20. 29. 30

Land mountainous.

Soil 3rd rate

Vegetation Grass

Timber of Juniper.

G. M. Carson Comptroller. March 24th 1883

Township 21 N Range 19 E

Gila and Salt River Meridian.

Chains

North, between Sections 19 and 20.

Variation 13° 30' East.

Ascend.

40.00

Deposited a marked stone, 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., dug pits 18x18x12 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 over it. In *N* pit drove a stake 2 ft. long, 2 in. square, 12 ins. in the ground, marked $\frac{1}{4}$ s. on *W* face.

80.00

Set a *Basalt* stone 20 x 20 x 20 ins. 12 ins. in the ground for Cor. to Secs. 17, 18, 19. 20 marked with 4 notches on *S* and 6 notches on *E* edges and raised a mound of stone alongside. Pits impracticable.

Land rolling.

Soil 3rd rate

Vegetation *grass*

Township 21 N Range 19 E

Gila and Salt River Meridian.

Chains East, on a random line between Sections 17 and 20.
 Variation $13^{\circ} 30'$ East.

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

59.63 Intersect N. & S. line, 22 lks. N. of cor. to secs.

6, 17, 20, 21 from which corner, I run

N. 59.51' W. on a true line between sections 17 & 20

Variation $13^{\circ} 30'$ East

59.81 Deposited a marked stone, 12 ins. in the ground, for

 $\frac{1}{4}$ sec. cor., dug pits 18x18x12 ins. E. and W. ofpost $5\frac{1}{2}$ ft. dist. and raised a mound of earth $1\frac{1}{2}$ ft.high, $3\frac{1}{2}$ ft. base over it. In E. pit drove a stake 2ft. long, 2 in. square, 12 ins. in the ground, marked $\frac{1}{4}$

s. on N. face.

59.63 The corner to sections 17, 18, 19, 20

Land rolling.

Soil 3rd rate

Vegetation Grass.

Timber of Juniper.

H. P. Johnson. March 24th 1883

Township 21 N

Range 19 E

Gila and Salt River Meridian.

Chains

West, on a random line between Sections 18 and 19.

Variation 13° 30' East.

Descend.

20.50 Cross Wash, 10 fks. wide, Course S. W. and ascend.

40.00 Set temporary 1/4 Sec. Cor.

71.20 Top of Ridge, bears N. W. & S. E. and descend.

79.71 Intersect W. B. of Twp. 34 fks. N. of cor. to secs. previously set by me.

13. 18. 19. 24 from which corner, I run

N. 79° 40' E on a true line, between sections 18 & 19

Variation 13° 30' East.

38.71 Set a lime stone 20 x 10 x 10 ins. 10 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on N. face and raised a mound of stone. alongside.

Pits impracticable.

78.71 The corner to sections 17. 18. 19. 20

Land rolling.

Soil 3rd rate

Vegetation Grass

Timber of Juniper.

G. M. Carson, Comptroller, March 21st 1883

Township 21 N Range 19 E
 Gila and Salt River Meridian.

Chains North, between Sections 17 and 18.
 Variation 13° 30' East.

Ascend.

Set a Basalt stone 20 x 10 x 4 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 impracticable.

80.00 Set a Basalt stone 17 x 11 x 7 ins. 12 ins. in the ground for Cor. to Secs. 17 & 18 marked with 4 notches on S. and 5 notches on E. edges and raised a mound of stone alongside. *Pits impracticable.*

Land rolling.

Soil 3rd rate

Vegetation Grass.

Timber of Juniper.

Township 21 N Range 19 E

Gila and Salt River Meridian.

Chains

East, on a random line between Sections 8 and 17.

Variation 10° 30' East.

Ascend.

40.00

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

Intersect N. & S. line, 93 lks. N of cor. to secs.

7, 9, 16, 17 from which corner, I run

N. 89° 46' W. on a true line between sections 8 & 17

Variation 13° 20' East

40.02

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.

40.04

The corner to sections 7, 8, 17, 18

Land rolling.

Soil 3rd rate

Vegetation Grass

Timber of Juniper

D. P. Johnson March 24th 1893

Township 21 N Range 19 E

Gila and Salt River Meridian.

Chains

West, on a random line between Sections 7 and 18.

Variation $13^{\circ} 30'$ East.

Descend.

4.00 Cross Wash, 10 lks. wide, Course $S. 30^{\circ} W$ and ascend.40.00 Set temporary $\frac{1}{4}$ Sec. Cor.40.40 Top of Ridge, bears $N. 60^{\circ} E$ or $S. 60^{\circ} W$ and descend.70.69 Intersect W. B. of Twp. 8 lks. N. of cor. to secs.
previously set by me.

7. 12. 13. 15 from which corner, I run

 $N. 57^{\circ} 07' E$ on a true line, between sections 7 & 18Variation $13^{\circ} 30'$ East.38.69 Set a Basalt stone $16 \times 10 \times 6$ 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.

75.69 The corner to sections 7. 8. 17. 18

Land mountainous.

Soil 3rd rateVegetation Grass.Timber of Juniper.

G. M. Carson, Compassman, March 25, 1883

57 Township

21 N

Range

19 E

Gila and Salt River Meridian.

Chains

North, between Sections 7 and 8.

Variation 13° 30' East.

Ascend.

3.75 Cross Wash, 15 lks. wide, Course S. 27° W and ascend.

30.00 Top of Ridge, bears N. 70° E. S. 70° W and descend.

40.00 Set a *limestone* stone 15 x 12 x 7 ins., 10 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on N. face and raised a mound of stone. alongside.

Pits impracticable.

80.00 Set a *Basalt* stone 17 x 10 x 10 ins., 12 ins. in the ground for Cor. to Secs. 5, 6, 7, 8 marked with 5 notches on S. and 5 notches on E. edges and raised a mound of stone. alongside. Pits impracticable.

from which

A Juniper 15 ins. diam. bears N. 43° W. 67 lks. dist. marked T. 21 N. R. 19 E. S., 0 B. T.

A Juniper 10 ins. diam. bears S. 76° E. 63 lks. dist. marked T. 21 N. R. 19 E. S., 8 B. T.

No other trees within limits.

Land mountainous

Soil 3rd rate

Timber of *Juniper*

Vegetation. *Grass.*

Township

21 N.

BOOK 398

Range

19 E.

58

Gila and Salt River Meridian.

Chains

East, on a random line between Sections 5 and 8.

Variation $13^{\circ} 30'$ East.

Ascend.

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

76.00 Top of Butte bean N. and descend.

79.84 Intersect N. & S. line, 16 lks. S. of cor. to secs.
4, 5, 8, 9 from which corner, I run $S 89^{\circ} 53' W.$ on a true line between sections 5 & 8Variation $12^{\circ} 30'$ East39.92 Set a Basalt-stone 15 x 10 x 9 ins., 18
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.

79.84 The corner to sections 5, 6, 7, 8

Land rolling.

Soil 3rd rate

Vegetation Grass.

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

A. G. Johnson March 24th 1883.

Township 21 N Range 19 E

Meridian.

Chains

West, on a random line between Sections 6 and 7.

Variation $13^{\circ} 30'$ East.*Descend.*40.00 Set temporary $\frac{1}{4}$ Sec. Cor.78.27 Intersect *W. B. of Tp. 28 lks. S. of cor. to secs. previously set by me.*1. 6. 7. 12° from which corner, I run $S. 89^{\circ} 48' E$ on a true line, between sections 6 & 7Variation $13^{\circ} 30'$ East.

38.27 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.

78.27 The corner to sections 5. 6. 7. 8

Land rolling.

Soil $3^{\circ} 2$ rate

Vegetation Grass.

Timber of Juniper.

Township 21 S.

Range 19 E.

Gila and Salt River Meridian.

Chains

North, on a random line between Sections 5 and 6.

Variation 13° 30' East.

Ascend.

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

Intersect N. B. of Tp. 21 S. 19 E. of cor. to secs.
 previously set by me.
 S. 6. 31. 32 from which corner, I run

S. 17° E. on a true line, between sections 5 & 6

Variation 13° 30' East.

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., 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.

The corner to sections 6. 6. 7. 8

Land rolling.

Soil 3rd rate

Vegetation Grass.

Timber of Juniper.

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

G. M. Cannon Compeaseman. March 24th 1883

GENERAL DESCRIPTION.

The land in this Township is mountainous and rolling.

The soil 3rd ridge.

The vegetation consists of grass.

Two large buttes divide the Tp. into two parts, forming a watershed to E. & W.

There are considerable grass and plenty of juniper in several parts. There are also several specimens of petrified wood.

For Trial Notes
see Book No. 19.

U. S. Surveyor General's Office,
Tucson, Arizona, *July 26*, 188*8*

The foregoing Field Notes of the survey of the
Subdivision Lines of Township
21 North, Range 19 East

of the Gila and Salt River Base and Meridian, Arizona,
executed by *A. P. Johnson*,
D. S., under his contract of the *5th* day of
August, 188*2*, having been critically ex-
amined and the necessary corrections and explanations
made, the said Field Notes and the surveys they de-
scribe, are hereby approved.

J. W. Robinson
Surveyor General.