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Book No. 8

A. P. Johnson Deputy Surveyor.

T. 23 North R. 18 East

Gila and Salt River Meridian.

BOOK 468

FIELD NOTES

OF

No. 468

THE SUBDIVISION LINES OF

Township 23 North Range 18 East

Gila and Salt River Meridian.

BY

A. P. Johnson Deputy Surveyor.

Under his Contract of Aug. 15th 1882

Survey Commenced February 19th 1883

Survey Completed February 21st 1883

468

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No. 468

A. P. Johnson Deputy Surveyor.

T. *23 North* R. *18 East*

Gila and Salt River Meridian.

FIELD NOTES

OF

THE SUBDIVISION LINES OF

Township *23 North* Range *18 East*

Gila and Salt River Meridian.

BY

A. P. Johnson Deputy Surveyor.

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

Survey Commenced *February 19th* 1883

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BOOK 468

1A

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Gila and Salt River Baseline Meridian.

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Township

Range

BOOK 468

13

Gila and Salt River Meridian.

For Preliminary
oaths and description
of instrument used
see Book No. 1.

Survey made with Burt's Patent Improved Solar
Compass, nearly new, and in first rate order. Made
by Otto Gund of Casel
Germany in 1881

Before proceeding to subdivide this Tp., I made a
change of 6 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.

1 ¹⁰
 Township 23 N. Range 18 E.

(See previous page.)

Gila and Salt River Meridian.

Chains From the corner to Sections 35, 36, 1 and 2, ^{previously set by me.} on the South boundary, I run,
 North, between Sections 35 and 36
 Variation 13° 20' East.

Descend.

40.00 Deposited a marked stone, 12 ins. in the ground, for
 ¼ sec. cor., dug pits 18x18x12 ins. N. and S. of
 post 5½ ft. dist. and raised a mound of earth 1½ ft.
 high, 3½ ft. base over it. In N. pit drove a stake 2
 ft. long, 2 in. square, 12 ins. in the ground, marked ¼
 s. on W. face.

73.00 Cross Wash, 30 lks. wide, Course W. and ascend.

80.00 Deposited a marked stone, 12 ins. in the ground, for
 cor. secs. 25, 26, 35, 36, dug pits 18x18x12
 ins. in each sec. 5½ ft. dist., and raised a mound of
 earth 2 ft. high, 4½ ft. base over it. In S. E. pit drove
 a stake 2 ins. square, 2 ft. long, 12 ins. in the ground,
 marked T. 23 N. S. 25- on N. E. R. 18 E. S. 36 on
 S. E. S. 35 on S. W and S. 26 on N. W faces,
 with a notch on S. and a notch on E. edges.

Land rolling.

Soil 3^d rate

Vegetation Grass.

Township 23 N. Range 18 E.

Gila and Salt River Meridian.

Chains

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

Variation $13^{\circ} 20'$ East.*Ascend.**25* Cross Wash, *12* lks. wide, Course *S.* and ascend.*40.00* Set temporary $\frac{1}{2}$ Sec. Cor.*80.13* Intersect C. B. of Tp. *34* lks. *S.* of cor. to secs. previously set by me.*25. 30. 31. 36* from which corner, I run*S. 89^{\circ} 45' W.* on a true line, between sections *25* & *36*Variation $13^{\circ} 30'$ East.*40.06* 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 N. pit drove a stake 2 ft. long, 2 in. square, 12 ins. in the ground, marked $\frac{1}{4}$ s. on N. face.*80.13* The corner to sections *25. 26. 35. 36*

Land rolling.

Soil *3rd* rateVegetation *Grass.*

Township

23 N.

Range

18 E.

Gila and Salt River Meridian.

Chains

North, between Sections 25 and 26.

Variation $13^{\circ} 20'$ East.

Ascend.

10.00 Descend. gradually.

27.00 Cross Wash, 18 lks. wide, Course $S. 10^{\circ} W$ and ascend.

40.00 Deposited a marked stone, 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., dug pits $18 \times 18 \times 12$ 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 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 post 4 ft. long, 4 ins. square, with marked stone 12 ins. in the ground, for Cor. to Secs, 23, 24, 25, 26 marked T, 23 N. S. 24, on N, E, R, 18 E, S. 25 on S, E, S, 26 on S, W, and S, 23 on N, W, face 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 around post.

Land rolling.

Soil 3rd rate

Vegetation Grass.

Township 23 N Range 18 E

Gila and Salt River Meridian.

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

Over level land

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

42.00 Cross Wash, 36 lks. wide, Course S and ascend.

50.10 Intersect E. B. of Tp. 10 lks. S. of cor. to secs.
previously set by me.

19. 24. 25. 30 from which corner, I run

1. 29° 56' W on a true line, between sections 24 & 25

Variation 13° 30' East.

40.05 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.

60.10 The corner to sections 23. 24. 25. 26

Land level. rolling.

Soil 3rd rate.

Vegetation Grass.

Township

23 N

Range

18 E

Gila and Salt River Meridian.

Chains

North, between Sections 23 and 24.

Variation

13° 30'

East.

Ascend.

Set a Basalt stone $6 \times 4 \times 3$ 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.

42.20

Cross Wash, 42 lks. wide, Course S.W. and ascend.

80.00

Set a Basalt stone $6 \times 4 \times 3$ ins., 10 ins. in the ground for Cor. to Secs. 23, 24, 29, 30 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 3rd rate

Vegetation Grass.

Township 23 N. Range 18 E.

No. 468

Gila and Salt River Meridian.

Chains

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

Variation $13^{\circ} 40'$ East.

Ascend.

21.50 Cross Wash, 40 lks. wide, Course $S. 70^{\circ} W.$ 40.00 Set temporary $\frac{1}{4}$ Sec. Cor.68.00 Cross Wash, 32 lks. wide, Course $S. W.$ and ascend.79.89 Intersect $E. B.$ of Tp. 56 lks. $S.$ of cor. to secs.
previously set by me.

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

 $S. 89^{\circ} 36' W.$ on a true line, between sections 13 & 24Variation $13^{\circ} 30'$ East.39.94 Set a Basalt- stone $16 \times 9 \times 5$ 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, $3\frac{1}{2}$
ft. base alongside.

79.89 The corner to sections 13. 14. 23. 24

Land rolling.

Soil 3° rate

Vegetation Grass.

Township 23 N.

Range 18 E

Gila and Salt River Meridian.

Chains North, between Sections 13 and 14.

Variation $13^{\circ} 40'$ East.*Ascend.*

40.06 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 Basalt-stone 14 x 8 x 6 ins. 10 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 rolling.*Soil 3° rate

Vegetation Grass.

Township 23 N. Range 18 E.

Gila and Salt River Meridian.

Chains

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

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

Descend.

4.50 Cross Wash, 20 lks. wide, Course S.

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

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

79.80 Intersect E. B. of Tp. 17 lks. S. of cor. to secs.

7. 12. 13. 18 previously set by me. from which corner, I run

S. $89^{\circ} 53'$ W. on a true line, between sections 12 & 13

Variation $13^{\circ} 24'$ East.

39.90 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.

79.80 The corner to sections 11. 12. 13. 14

Land rolling.

Soil 3° rate

Vegetation Grass.

Township 23 N. Range 18 E.

Gila and Salt River Meridian.

Chains North, between Sections 11 and 12.

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

- 18.00 Ascend. abruptly.
- 30.00 Cross Wash, 17 lks. wide, Course S. E.
- 40.00 Set a Basalt stone $14 \times 8 \times 6$ 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.
- 70.00 Ascend. gradually.
- 80.00 Set a Basalt stone $16 \times 14 \times 12$ ins. 10 ins. in the ground for Cor. to Secs. 1, 2, 11, 12 marked with 5 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 3rd rate
- Vegetation Grass.

Township

23

N

Range

18

E

Gila and Salt River Meridian.

Chains

East, on a random line between Sections 1 and 12.

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

26.00

Mesa bears N. e S.

39.00

Leave Mesa, bears N. e S.

40.00

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

77.00

Cross Wash, 10 lks. wide, Course S. and ascend.

80.15

Intersect E. B. of Tp. 11 lks. S. of cor. to secs.

previously set by me.
1. 6. 7. 2 from which corner, I run $189^{\circ} 55'$ W. on a true line, between sections 1 & 12Variation $13^{\circ} 43'$ East.

40.07

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

80.18

The corner to sections 1, 3, 11, 12

Land rolling.

Soil 3rd rate

Vegetation Grass.

Township

23

N

Range

18 E.

Gila and Salt River Meridian.

Chains

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

Variation

13° 30' East.

Ascend.

16.00 Top of Ridge, bears N. 50° W. 150' and descend.

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

76.00 Descend. from mesa.

80.30 Intersect N. B. of Tp. 13 Tks. W. of cor. to secs.
previously set by me.

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

S. 6° W. on a true line, between sections 1 & 2

Variation 13° 30' East.

90.30 Set a Basalt-stone 14 x 8 x 7 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.*

90.30 The corner to sections 1, 2, 36, 37

Land mountainous.

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.

Feb. 19, 1883

A. P. Johnson

Township

23

N.

Range

18

E.

Gila and Salt River Meridian.

Chains

From the corner to sections, 2, 3, 34, 35 in S. ^{1/2} E. ^{1/2} previously set by me.
 9 min North, between Sections 34 and 35.

Variation $13^{\circ} 20'$ East.

Descend.

40.00

Deposited a marked stone, 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., dug pits $18 \times 18 \times 12$ 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 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

Deposited a marked stone, 12 ins. in the ground, for cor. sec. 26, 27, 34, 35, 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 over it. In S. E. pit drove a stake 2 ins. square, 2 ft. long, 12 ins. in the ground, marked T. 23 N. S. 26 on N. E. R. 18 E. S. 35 on S. E. S. 34 on S. W and S. 27 on N. W faces, with 1 notch on S. and 2 notches on E. edges.

Land rolling.

Soil 3rd rate

Vegetation Grass.

Township 23 N. Range 18 E.

Gila and Salt River Meridian.

Chains

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

Variation $13^{\circ} 20'$ East.*Descend.*40.00 Set temporary $\frac{1}{4}$ Sec. Cor.52.30 Cross Wash, 15⁻ lks. wide, Course *N. 55° W.*70.12 Cross Wash, 15⁻ lks. wide, Course *S. 78° W.*78.85 Cross Wash, 10 lks. wide, Course *N. 50° W.* and ascend.79.76 Intersect N. & S. line, 13 lks. *S.* of cor. to secs.*26-26, 35-36 from which corner, I run**S. 89° 54' W. on a true line between sections 26 & 36-*Variation $13^{\circ} 20'$ East

39.88 Set a *Sand* stone 30 x 20 x 15 ins., 21
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.

79.76 The corner to sections 26, 27, 34, 36-

Land rolling.

Soil 3° rateVegetation *Grass.*

Township 23 N Range 18 E

Gila and Salt River Meridian.

Chains North, between Sections 26 and 27.

Variation 13° 21' East.

Descend.

21.60 Cross Wash, 24 lks. wide, Course S. 62° W and ascend.

40.00 Deposited a marked stone, 12 ins. in the ground, for $\frac{1}{2}$ sec. cor., dug pits $18 \times 18 \times 12$ 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 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 Deposited a marked stone, 12 ins. in the ground, for cor to secs. 22 23 26 27, 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 over it. In S. E. pit drove a stake 2 ins. square, 2 ft. long, 12 ins; in the ground, marked T. 20 N. S. 23 on N. E. R. 18 E. S. 26 on S. E. S. 27 on S. W and S. 22 on N. W faces, with 3 notch2 on S. and 2 notch2 on E. edges.

Land rolling.

Soil 3rd rate

Vegetation Grass

Township

23 N

Range

18 E

Gila and Salt River Meridian.

Chains

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

Variation

13° 30'

East.

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

44.16 Cross Wash, 46 lks. wide, Course S. 42° W. and ascend.

49.92 Intersect N. & S. line, 32 lks. N. of cor. to secs.

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

N. 89° 40' W. on a true line between sections 23 & 26

Variation

13° 30'

East

32.96 Set a Basalt-stone 16 x 7 x 3 ins., 10 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.

79.92 The corner to sections 22, 23, 26, 27

Land rolling.

Soil

3 $\frac{1}{2}$ "

rate

Vegetation

Grass.

Township

23

A

Range

18

8

Gila and Salt River Meridian.

Chains

North, between Sections 22 and 23.

Variation

3° 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.

50.00 Deposited a marked stone, 12 ins. in the ground, for cor. to secs. 14, 15, 22, 23, dug pits 18x18x12 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 over it. In S. E. pit drove a stake 2 in. square, 2 ft. long, 12 ins. in the ground, marked T. 23 N. S. 14 on N. E. R. 15 S. S. 23 on S. E. S. 22 on S. W and S. 15 on N. W faces, with 3 notch on S. and 2 notch on E. edges.

*Land rolling.*Soil 3rd rats

Vegetation Grass

Township

23 N

Range

18 E

Gila and Salt River Meridian.

Chains

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

Variation

13° 30'

East.

Ascend.

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

79.52 Intersect N. & S. line. 42 lks. N. of cor. to secs.

13, 14, 20, 24 from which corner, I run

N. 52° 42' W. on a true line between sections 14 & 23

Variation

13° 40'

East

39.92 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.

79.83 The corner to sections 14, 19, 22, 23

Land rolling.

Soil 3rd rate

Vegetation Grass

Township

23

Range

18 E

Gila and Salt River Meridian.

Chains

North, between Sections 14 and 15.

Variation

12° 30'

East.

Ascend.

46.00 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.

72.00 Cross Wash, 26' lks. wide, Course S. W. and ascend.

80.00

Set a Corall- stone 16 x 14 x 8 ins. 10 ins. in the ground for Cor. to Secs. 10, 11, 14, 15 marked with 4 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. alongside.

Land rolling.

Soil 3rd rate

Vegetation Grass

19 Township 23 N Range 18 E

Gila and Salt River Meridian.

Chains East, on a random line between Sections 11 and 14.
Variation 13° 40' East.

Over rolling land.

16.00 Cross Wash, 10 lks. wide, Course S. W. and ascend.

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

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

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

11. 29. 36 W. on a true line between sections 11 & 14

Variation 13° 30' East

40.23 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.

82.40 The corner to sections 11. 12. 13. 14

Land rolling.

Soil 3rd rate

Vegetation Grass

Township

23

N

Range

18 E

Gila and Salt River Meridian.

Chains

North, between Sections 10 and 11.

Variation

18' 40'

East.

Ascend.

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

46.00 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 9 x 4 ins. 10 ins. in
the ground for Cor. to Secs. 2, 3, 10, 11 marked
with 6 notches on S. and 2 notches on E. edges
and raised a mound of stone alongside. Pits impracticable.

Land rolling.

Soil

2'

rate

Vegetation

Grass.

Township

23

N

Range

18

E

Gila and Salt River Meridian.

Chains

East, on a random line between Sections 2 and 11.

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

42.75 Cross Wash, 15' lks. wide, Course S. E. and ascend.

80.29 Intersect N. & S. line, 36 lks. N. of cor. to secs.

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

N. $89^{\circ} 45' W.$ on a true line between sections 2 & 11Variation $13^{\circ} 30'$ East

40.14 Set a Basalt stone 16 x 12 x 4 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.

80.29 The corner to sections 2. 3. 10. 11

Land rolling.

Soil 3^d rate

Vegetation Grass.

Township

23

N

Range

18

8

Gila and Salt River Meridian.

Chains

North, on a random line between Sections 2 and 3.

Variation

13° 30'

East.

Ascend.

15.00 Top of little bear E. & W.

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

57.26 Descend. from little bear E. & W.

72.87 Intersect N.B. of Tp. 65 lks. W. of cor. to secs. previously set by me.

2. 3. 34. 30' from which corner, I run

1. 24' W. on a true line, between sections 2 & 3

Variation

13° 30'

East.

89.89

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.

79.89

The corner to sections 2, 3, 34, 35

Land rolling.

Soil 3° rate

Vegetation Grass.

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

Oct. 19, 1888

G. M. Canyon

Comptroller

Township 23 N Range 18 E

Gila and Salt River Meridian.

From the corner to sections, 3, 4, 33, 34, 33, 34, ^{33, 34} previously set by me.

Chains 3000 North, between Sections 33 and 34.

Variation 13° 20' East.

Ascend.

16.00 Entire level land.

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.

10.00 Deposited a marked stone, 12 ins. in the ground, for cor. to secs. 27, 28, 33, 34, dug pits 18x18x12 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 over it. In S. E. pit drove a stake 2 ins. square, 2 ft. long, 12 ins. in the ground, marked T. 3 N S. 27 on N. E. R. & 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.

Land rolling.

Soil 3rd rate

Vegetation Grass

Township 23 N Range 18 E

Gila and Salt River Meridian.

Chains East, on a random line between Sections 27 and 34.
Variation 13° 20' East.

Over rolling land.

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

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

26. 27. 34. 35 from which corner, I run

N. 39° 49' W. on a true line between sections 27 & 34

Variation 13° 20' East

39.94 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.

72.88 The corner to sections 27. 28. 33. 34

Land rolling.

Soil 52 rate

Vegetation Grass.

Township 23 N

Range 18 E

Gila and Salt River Meridian.

Chains

North, between Sections 27 and 28.

Variation

18° 20'

East.

Descend.

10.50 Cross Wash, 22 lks. wide, Course S. W. and ascend.

40.00 Deposited a marked stone, 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., dug pits $18 \times 18 \times 12$ 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 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 N. face.

80.00 Deposited a marked stone, 12 ins. in the ground. for cor. $\frac{1}{4}$ secs. 21. 22. 27. 28, 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 over it. In S. E. pit drove a stake 2 ins. square, 2 ft. long, 12 ins; in the ground, marked T. 20 N. S. 22 on N. E. R. 18 E. S. 27 on S. E. S. 28 on S. W and S. 21 on N. W faces, with 2 notches on S. and 3 notches on E. edges.

Land rolling.

Soil 3rd rate

Vegetation Grass.

Township 23

N

Range

18 E

Gila and Salt River Meridian.

Chains

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

Variation

13° 30'

East.

Ascend.

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

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

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

N. 59° 55' W. on a true line between sections 22 & 27

Variation

13° 20'

East

37.99

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.

77.99

The corner to sections 21. 22. 27. 28

Land rolling.

Soil st rate

Vegetation Grass

Township 23 N. Range 18 E.

Gila and Salt River Meridian.

Chains North, between Sections 21 and 22.

Variation 13° 30' East.

Ascend.

40.00

Deposited a marked stone, 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., dug pits $18 \times 18 \times 12$ 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 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.

50.00

Deposited a marked stone, 12 ins. in the ground, for cor. 7 secs. 16. 16. 21. 22, 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 over it. In S. E. pit drove a stake 2 ins. square, 2 ft. long, 12 ins. in the ground, marked T. 23 N. S. 16 on N. E. R. 18 E. S. 22 on S. E. S. 21 on S. W and S. 16 on N. W faces, with 3 notches on S. and 3 notches on E. edges.

Land rolling.

Soil 3rd rate

Vegetation Grass

Township, Range 18 E
 Gila and Salt River Meridian.

Chains East, on a random line between Sections 15 and 22.
 Variation 13° 30' East.

Ascend.

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

80.36 Intersect N. & S. line. 62 lks. $\frac{1}{4}$ of cor. to secs.

W. 16. 22. 23 from which corner, I run

$\frac{1}{4}$ Sec. 35 W. on a true line between sections 16 & 22

Variation 13° 30' 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.

Pa 30 The corner to sections 15. 16. 21. 22

Land rolling.

Soil 3rd rate

Vegetation Grass.

BOOK 468

29

Township 22 N Range 18 E

Gila and Salt River Meridian.

Chains North, between Sections 15 and 16.

Variation 13° 30' East.

Ascend.

21.50 Cross Wash, 30 lks. wide, Course S 44° W and ascend.

4000 Deposited a marked stone, 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., dug pits $18 \times 18 \times 12$ 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 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 N face.

80.00 Set a Basalt stone $18 \times 12 \times 5$ ins. 12 ins. in the ground for Cor. to Secs. 9, 10, 15, 16 marked with 1 notch 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 3-2 rate

Vegetation Grass.

Township

23

N.

Range

18 E

Gila and Salt River Meridian.

Chains

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

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

80.00 Intersect N. & S. line. 7 lks. N. of cor. to secs.

10, 11, 14, 15 - from which corner, I run

N. $59^{\circ} 57'$ W. on a true line between sections 10 & 15Variation $13^{\circ} 40'$ 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.

80.00 The corner to sections 9, 10, 14, 15

land rolling.

Soil 3rd rate

Vegetation Grass.

Township 23 N Range 18 E

Gila and Salt River Meridian.

Chains North, between Sections 9 and 10.

Variation 3° 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 16 x 8 x 7 ins. 10 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 rateVegetation Grass.

Township

23

N

Range

18 0

Gila and Salt River Meridian.

Chains

East, on a random line between Sections 3 and 10.

Variation 18° 30' East.

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

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

79.89 Intersect N. & S. line, 32 lks. N. of cor. to secs.

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

N. 89° 40' W. on a true line between sections 3 & 10

Variation 18° 30' East

39.94 Set a Basalt-stone 14 x 8 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.*Pits impracticable.*

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

*Land rolling.*Soil 37th rate

Vegetation Grass.

Township 23 N Range 18 E

Gila and Salt River Meridian.

Chains

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

Variation 2° 30' East.

Ascend.

25.10 Top of Ridge, bears N. 75° W. 2 S. 75° and descend.

40.00 Set temporary 1/4 Sec. Cor.

79.66 Intersect N. B. of Tp. 8 lks. W. of cor. to secs. previously set by me. 3. 24. 33. 34 from which corner, I run

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

Variation 13° 30' East.

39.66 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.

79.66 The corner to sections 3. 4. 9. 10

Land mountainous.

Soil 3rd rate

Vegetation Grass

Feb. 20 1883

A. P. Johnson

Township 23 N Range 18 E

Gila and Salt River Meridian.

From the corner to sections, 4, 5, 32 & 33 ^{previously set by me}

Chains *Iron* North, between Sections 32 and 33.

Variation 13' 20' East.

Ascend.

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.

Deposited a marked stone, 12 ins. in the ground, for cor. to secs. *28, 29, 32, 33*, dug pits 18x18x12 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 over it. In S. E. pit drove a stake 2 ins. square, 2 ft. long, 12 ins; in the ground, marked T. 28 N. S. 28 on N. E. R. 18 E. S. 33 on S. E. S. 32 on S. W and S. 29 on N. W faces, with 1 notch on S. and 4 notches on E. edges.

Land rolling.

Soil 3rd rate

Vegetation Grass.

Township

22 N.

Range

18 E.

Gila and Salt River Meridian.

Chains

East, on a random line between Sections 28 and 33.

Variation $13^{\circ} 20'$ East.*Descend.*40.00 Set temporary $\frac{1}{4}$ Sec. Cor.

66.00 Enter Flat bears S. W.

74.00 Cross Wash, course S. W. and ascend.

79.70 Intersect N. & S. line, 44 lks. S. of cor. to secs.

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

S. 89° 41' W. on a true line between sections 28 & 33

Variation $13^{\circ} 20'$ East

39.86 Set a sand stone 16 x 12 x 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.

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

*Land rolling.*Soil 3° rate

Vegetation Grass.

Township

23

N

Range

18 E

Gila and Salt River Meridian.

Chains

North, between Sections 28 and 29.

Variation

13' 20'

East.

Over level land

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 $\frac{1}{2}$ s. on W face.

60.00

Cross Wash, 30 lks. wide, Course W. and ascend.

80.00

Deposited a marked stone, 12 ins. in the ground, for cor to secs. 20, 21, 28, 29, dug pits 18x18x12 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 over it. In S. E. pit drove a stake 2 ins. square, 2 ft. long, 12 ins; in the ground, marked T. 20 N. S. 21 on N. E. R. 18 E. S. 28 on S. E. S. 29 on S. W and S. 20 on N. W faces, with 2 notches on S. and 4 notches on E. edges.

Land level.

Soil 200 rate

Vegetation Grass.

Township

23 N

Range

18 E

Gila and Salt River Meridian.

Chains

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

Variation 13° 40' East.

Descend.

8.20 Cross Wash, 46 lks. wide, Course S. W. and ascend.

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

80.16 Intersect N. & S. line, 68 lks. S. of cor. to secs.

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

S. 89° 31' W. on a true line between sections 21 & 28

Variation 13° 30' East

40.08 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.

80.16 The corner to sections 20, 21, 28, 29

Land rolling.

Soil 3rd rate

Vegetation Grass.

Township

23 N.

Range

18 E.

Gila and Salt River Meridian.

Chains

North, between Sections 20 and 21.

Variation

13° 40'

East.

Ascend.

44.00

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 sand stone $14 \times 7 \times 6$ ins. 10 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 rolling.

Soil 3rd rate

Vegetation Grass.

Township 23 N Range 18 E

Gila and Salt River Meridian.

Chains

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

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

Descend.

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

56.12 Cross Wash, 30 lks. wide, Course $S. 40^{\circ} W$ and ascend.

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

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

$S. 89^{\circ} 46' W$. on a true line between sections 16 & 21

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

40.15 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.

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

Land rolling.

Soil 3° rate

Vegetation *Grass.*

Township

23

N

Range

18

E

Gila and Salt River Meridian.

Chains

North, between Sections 16 and 17,

Variation

13° 30'

East.

Ascend.

46.00 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 10 x 7 x 4 ins. 10 ins. in the ground for Cor. to Secs. 8, 9, 10, 17 marked with 4 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 rolling.**Set 3rd rail.**Vegetation grass & sage.*

Township 23 N

Range 18 E

Gila and Salt River Meridian.

Chains

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

Variation 13° 30' East.

Ascend.

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

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

9. 10. 16. 16 from which corner, I run

3.59. 42' W. on a true line between sections 9 & 16

Variation 13° 30' East

39.98 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.

79.96 The corner to sections 8. 9. 16. 17

Land rolling.

Soil ~ 3rd rate

Vegetation Grass.

Township 13 N Range 18 E

Gila and Salt River Meridian.

Chains North, between Sections 8 and 9.

Variation 13° 30' East.

Over level land

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 Deposited a marked stone, 12 ins. in the ground, for cor. to secs. 4, 5, 8, 9, dug pits 18x18x12 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 over it. In S. E. pit drove a stake 2 ins. square, 2 ft. long, 12 ins; in the ground, marked T. 23 N. S. 4 on N. E. R. 15 E. S. 9 on S. E. S. 8 on S. W and S. 5 on N. W faces, with 5 notches on S. and 4 notches on E. edges.

*Land level.*Soil 3rd rate

Vegetation Grass.

BOOK 468

43

Township 22 N. Range 18 E.

Gila and Salt River Meridian.

Chains East, on a random line between Sections 4 and 9.
 Variation 13° 30' East.

Ascend.

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

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

2, 4, 9, 10 from which corner, I run

N. 59° 20' W. on a true line between sections 4 & 9

Variation 13° 30' East

3000 Set a Basalt stone $13 \times 9 \times 4$ 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.

79.76 The corner to sections 4, 6, 8, 9.

Land rolling.

Soil 3rd rate

Vegetation Grass.

Township 23 N Range 18 E

Gila and Salt River Meridian.

Chains North, on a random line between Sections 4 and 5.
 Variation 13° 30' East.

Ascend.

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

47.00 Top of Ridge, bears N. 81° E. 84' and descend.

77.72 Intersect N. B. of Tp. 23 lks. E. of cor. to secs.
 previously set by me.

4. 5. 32. 33 from which corner, I run

S. 1' E. on a true line, between sections 4 & 5
 Variation 13° 30' East.

89.72 Set a Basalt stone 4 x 8 x 6 ins., 10 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, 3 $\frac{1}{2}$
 ft. base alongside.

77.72 The corner to sections 4. 5. 8. 9

Land rolling.

Soil 3rd rate

Vegetation Grass

Feb. 20, 1883

G. M. Carson

Compassman.

Township 23 N.

Range 18 E.

Gila and Salt River Meridian.

From the corner to sections, 5, 6, 31 & 32 ^{on S. E. corner of} previously set by me.

Chain 3 Iron North, between Sections 31 and 32.

Variation 12° 30' East.

Ascend.

112.00

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

Deposited a marked stone, 12 ins. in the ground, for cor. sec. 29, 30, 31, 32, dug pits 18x18x12 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 over it. In S. E. pit drove a stake 2 ins. square, 2 ft. long, 12 ins. in the ground, marked T. 28 N. S. 29 on N. E. R. 18 E. S. 32 on S. E. S. 31 on S. W and S. 30 on N. W faces, with 1 notch on S. and 6 notches on E. edges.

Land rolling.

Soil 3rd rate

Vegetation Grass & Sage.

Township 23 N Range 18 E

Gila and Salt River Meridian.

Chains East, on a random line between Sections 29 and 32.
Variation $13^{\circ} 20'$ East.

Over level land

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

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

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

S. $89^{\circ} 56'$ W. on a true line between sections 29 & 32Variation $13^{\circ} 20'$ East40.18 Deposited a marked stone, 12 ins. in the ground, for $\frac{1}{2}$ 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 $\frac{1}{2}$ s. on N. face.

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

Land level.

Soil 3rd rate

Vegetation Grass & Sage.

Feb. 20, 1883

A. P. Johnson.

Township 23 N Range 18 E

Gila and Salt River Meridian.

Chains

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

Variation 13° 20' East.

Ascend.

40.00

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

58.60

Top of skew, bears N. & S. and descend.

77.53

Intersect W. B. of Tp. 16 lks. N. of cor. to secs.

29, 30, 31, 32 which is a line about 20 x 13 x 10 ins. 18 ins. in the ground marked with 1 notch on S. and 2 notches on N. edges with a mound of stone alongside

from which corner, I run

N. 89° 53' E on a true line, between sections 30 & 31

Variation 13° 20' East.

37.53

Set a sand stone 14 x 8 x 6 ins., 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.

77.53

The corner to sections 29, 30, 31, 32

Land mountainous.

Soil 3rd rate

Vegetation Grass.

Oct. 21, 1883 G. M. Carson
Compassman.

Township 23 N Range 18 E

Gila and Salt River Meridian.

Chains North, between Sections 29 and 30.

Variation 13° 20' East.

Ascend.

Descend. gradually.

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.

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

Set a Basalt stone $14 \times 10 \times 4$ ins. 20 ins. in the ground for Cor. to Secs. 19, 20, 29, 30 marked with 2 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.

BOOK 468

49

Township 28 N Range 18 E

Gila and Salt River Meridian.

Chains

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

Variation 13° 30' East.

Descend.

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

80.04 Intersect N. & S. line, 31 lks. N. of cor. to secs.

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

Neg. 47 W. on a true line between sections 20 & 29

Variation 13° 40' East

80.02 Set a Basalt stone $14 \times 9 \times 4$ ins., 10 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

80.04 The corner to sections 19, 20, 29, 30

Land rolling.

Soil 3rd rate

Vegetation Grass

Feb. 21, 1853

A. P. Johnson

Township 23 N. Range 18 E.

Gila and Salt River Meridian.

Chains West, on a random line between Sections 19 and 30.
Variation 13° 20' East.

Ascend.

12.50 Spring, bears North, & 50 yds. dist.

40.00 Set temporary 1/4 Sec. Cor.

77.20 Intersect W. B. of Tp. 24 yds. S. of cor. to secs.
19, 20, 29, 30.

which is a sand stone
20 x 10 x 10 ins. 10 ins. in
the ground marked with
2 nails on S. and
4 nails on N. edge
with a mound of
stone alongside
from which corner, I run

89° 50' E. on a true line, between sections 19 & 30
Variation 13° 20' East.

37.20 Deposited a marked stone, 12 ins. in the ground, for
1/4 sec. cor., dug pits 18x18x12 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 over it. In E. pit drove a stake 2
ft. long, 2 in. square, 12 ins. in the ground, marked 1/4
& on N. face.

77.20 The corner to sections 19, 20, 29, 30

Land rolling.

Soil 3.0 rats

Vegetation Grass.

Feb. 21, 1883.
G. A. Cannon

Chains

North, between Sections 19 and 20.

Variation $13^{\circ} 3.0'$ East.

Ascend.

40.00

Set a Basalt stone $10 \times 8 \times 8$ ins., 6 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.

30.00

Set a Basalt stone $16 \times 9 \times 4$ ins. 10 ins. in the ground for Cor. to Secs. 17, 18, 19, 20 marked 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. alongside.

Land rolling.

Soil 3rd rate

Vegetation Grass & Sage.

Township 23 N. Range 18 E.

Gila and Salt River Meridian.

Chains East, on a random line between Sections 17 and 20.
Variation $13^{\circ} 40'$ East.

Ascend.

30.00 Descend.

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

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

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

$89^{\circ} 40'$ W. on a true line between sections 17 & 20

Variation $13^{\circ} 20'$ East

39.79 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.

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

Land rolling.

Soil 3rd rate

Vegetation Grass.

Feb. 21, 1883

A. P. Johnson

Township 23 N.

Range 18 E.

Gila and Salt River Meridian.

Chains

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

Variation 13° 40' East.

Descent.

35.12 Cross Wash, 30 lks. wide, Course 40 W and ascend.

40.00 Set temporary 1/2 Sec. Cor.

56.50 Cross Road, Window and Moqui bears N. 20° E. & S 20° W.

65.00 Descent.

77.08 Intersect W. B. of Tp. 8 lks. N. of cor. to secs.

18, 19, 24

which is a mound of earth 2 ft. high, 4 1/2 ft. base with pits 18x18x12 ins. 5 1/2 ft. dist. in each dir. In S. E. pit was a stake 2 ins. square, 2 ft. long. 2 ins. in the ground, marked 123 N. E. 18 on N. E. R. 18 E. S. 19 on S. E. & 24 on S. W. and 13 on N. W. face, with 3 marks on S. and 3 marks on N. side from which corner, I run

N. 89° 57' E. on a true line, between sections 18 & 19

Variation 13° 20' East.

37.08 Deposited a marked stone, 12 ins. in the ground, for 1/2 sec. cor., dug pits 18x18x12 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 over it. In E. pit drove a stake 2 ft. long, 2 in. square, 12 ins. in the ground, marked 1/2 s. on N. face.

The corner to sections 17, 18, 19, 20

Ch. 21, 1883
C. M. Cannon
Complete

Land rolling
Soil 3 00
Vegetation
Grass

rate 37.08

Township

23

N

Range

18 E

Gila and Salt River Meridian.

Chains

North, between Sections 17 and 18.

Variation

13° 40'

East.

Descend.

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 N. face.

70.00 Cross Wash, 30 fks. wide, Course S. W. 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, 7, 8, 17, 18 marked T, N, S, 8, on N, E, R, 18 E, S, 17 on S, E, S, 18 on S, W, and S, 7 on N, W, face with 4 notches on S, and 6 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

Vegetation Grass & Sage.

Township 28 N Range 18 E

Gila and Salt River Meridian.

Chains

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

Variation 13° 30' East.

Descend.

30.00 Cross Wash, 36 lks. wide, Course S. W. and ascend.

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

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

8. 9. 14. 17 from which corner, I run

S. 89° 45' W. on a true line between sections 8 & 17

Variation 13° 30' East

79.83 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.

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

Land rolling.

Soil 3⁰⁰ rate

Vegetation Grass

Oct. 21, 1883
A. P. Johnson.

Township 23 N. Range 18 E.

Gila and Salt River Meridian.

Chains West, on a random line between Sections 7 and 18.
Variation $19^{\circ} 30'$ East.

Ascend.

26.50 Cross Road, Window and Moqui bears
 $N. 10^{\circ} E.$ & $S. 10^{\circ} W.$

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

76.90 Intersect W. B. of Tp. 54 lks. S. of cor. to secs.

7, 12, 13, 18
which is a mound of earth $2\frac{1}{2}$ ft. high,
 $4\frac{1}{2}$ ft. base with pits $18 \times 18 \times 12$ ins. in
each sec. $5\frac{1}{2}$ ft. dist. In S. E. pit - a
stake, 2 ins. square, 2 ft. long, 12 ins.
in the ground, marked T. 23 N. S. 7 on N. E.
P. 18 E. S. 18 on S. E. R. 17 E. S. 13 on S. W. and S.
12 on N. W. face with handles on S. and 1 notch on N. edge
from which corner, I run

$S. 89^{\circ} 37' E.$ on a true line, between sections 7 & 18
Variation $13^{\circ} 20'$ East.

36.90 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.

76.90 The corner to sections 7, 8, 17, 18

Land Mountainous Vegetation Grass.
Soil $3^{\circ} 10'$ rate Feb. 21, 1883. G. M. Carson, Comptroller

Township

23 N.

Range

18 E.

Gila and Salt River Meridian.

Chains

North, between Sections 7 and 8.

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

39.00 Cross Road, *Winklow and Moqui bears*
N. 20° E. & S. 20° W.

40.00 Set 1 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.

30.00 Set a post 4 ft. long, 4 ins. square, with marked stone
 12 ins. in the ground, for Cor. to Secs. 5, 6, 7, 8
 marked T, 23 N. S. 5, on N, E, R, 18 E; S. 8
 on S, E, S, 7 on S, W, and S, 6 on N, W, face
 with 5 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
 around post.

Land rolling.

Soil 3rd rate

Vegetation Grass.

Township 23 N. Range 18 E.

Gila and Salt River Meridian.

Chains East, on a random line between Sections 5 and 8.
Variation $13^{\circ} 30'$ East.

Descend.

- 11.00 Cross Road, Winslow and Moqui bears
N. 13° E. S. 13° W.
- 40.00 Set temporary $\frac{1}{4}$ Sec. Cor.
- 57.00 Cross Wash, 40 lks. wide, Course S. 26° W. and ascend.
- 59.82 Intersect N. & S. line, 54 lks. S. of cor. to secs.
4. 5. 8. 9 from which corner, I run
S. $89^{\circ} 37'$ W. on a true line between sections 5 & 8
Variation $13^{\circ} 30'$ East
- 39.91 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.
- 49.82 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.

Oct. 21. 1883

A. P. Johnson.

Township 23 N. Range 18 E.

Gila and Salt River Meridian.

Chains

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

Variation $13^{\circ} 30'$ East.*Descend.*22.50 Cross Wash, 30 lks. wide, Course *S.* and ascend.40.00 Set temporary $\frac{1}{4}$ Sec. Cor.76.73 Intersect W. B. of Tp. 10 lks. *S.* of cor. to sec.

1. 6. 7. 12

which is a basalt stone
 $30 \times 20 \times 10$ ins. 21 ins. on
 the ground marked
 with 5 matches on *S.*
 edge. 1 insect on *N.* edge
 with a mound of stone
 alongside.

from which corner, I run

$S. 89^{\circ} 56' E.$ on a true line, between sections 6 & 7
 Variation $13^{\circ} 20'$ East.

36.73

Deposited & 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.

76.73

The corner to sections 6. 6. 7. 8
 Land rolling.

Soil 3^{rd} rate

Vegetation Grass.

Township 23 N Range 18 E

Gila and Salt River Meridian.

Chains North, on a random line between Sections 5 and 6.
 Variation 13° 30' East.

Descend.

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

82.24 Intersect N. B. of Tp. 32 lks. U of cor. to secs. previously set by me.

O. C. 31. 32 from which corner, I run

3. 14' E on a true line, between sections 5 & 6

Variation 13° 30' East.

46.24 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.

89.24 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 reversing apparatus, and found them correct.

Feb. 21, 1883.
 G. M. Carson
 Compassman

GENERAL DESCRIPTION.

The land in this township is rolling and unmountainous.

The soil is 3rd rate.

The Vegetation consists of grass and some sage.

The Henderson and Moqui Road runs through the Township.

There is a good spring of water in Sec. 19 and another in Sec. 31.

~~See~~ Final Order
see Book 19 -

BOOK 468

62

U. S. Surveyor General's Office,
Tucson, Arizona, July 26, 1883

The foregoing Field Notes of the survey of the
Subdivision lines of Township
23 North, Range 18 East

of the Gila and Salt River Base and Meridian, Arizona,
executed by W. P. Johnson,
D. S., under his contract of the 5th day of
August, 1882, 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. M. Robinson
Surveyor General.