

*Indexed
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Book No. 14

Deputy Surveyor.

T. 22 North R. 19 East

Gila and Salt River Meridian.

BOOK 433

FIELD NOTES

OF

No. 433

THE SUBDIVISION LINES OF

Township 22 North Range 19 East

Gila and Salt River Meridian.

BY

A. P. Johnson Deputy Surveyor.

Under his Contract of Aug. 27 1882

Survey Commenced Mar. 15 1883

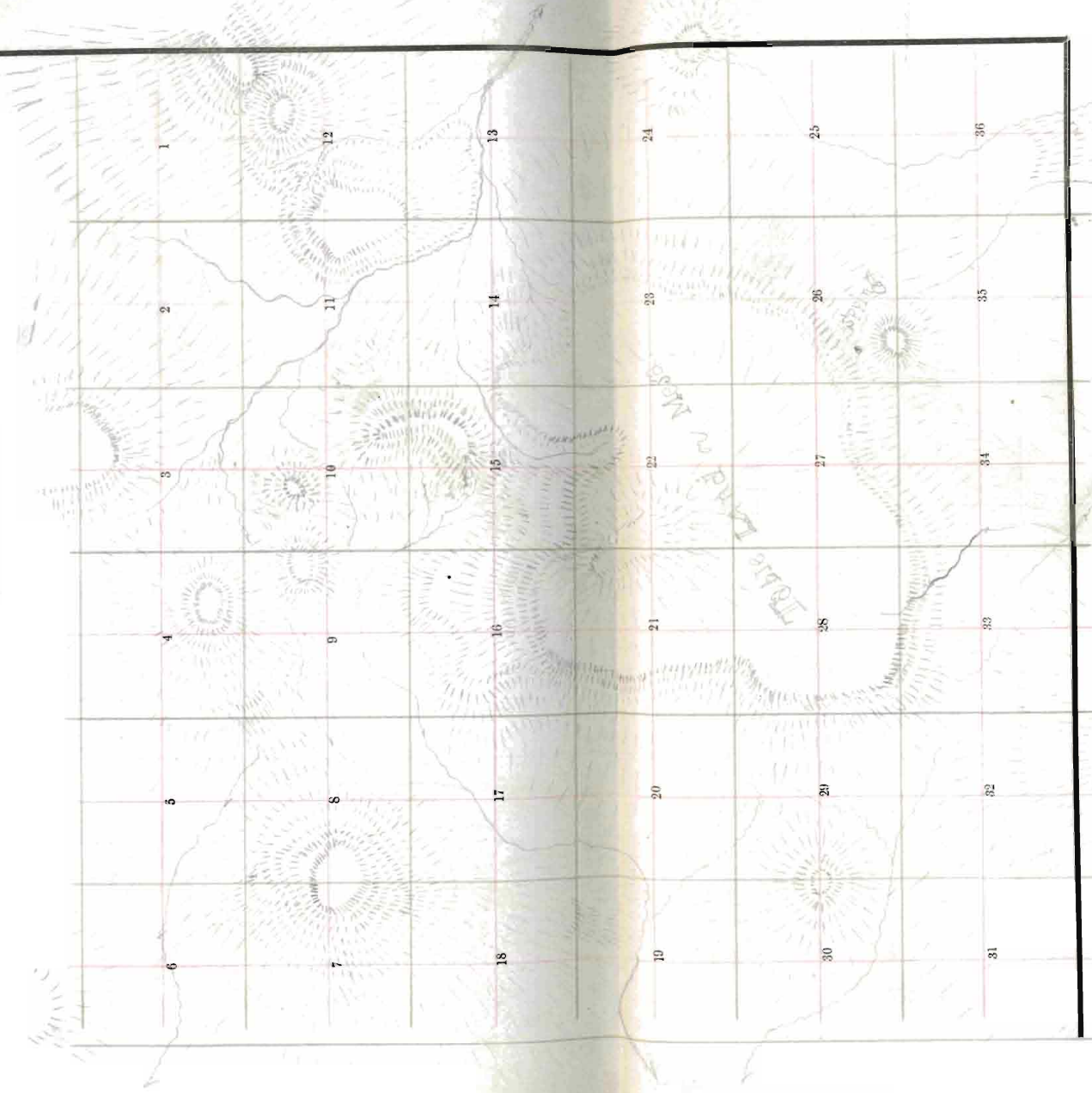
Survey Completed Mar. 14 1883

433

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Copied for Register,*

Township No. 22 N Range No. 18 E 433 Meridian.

BOOK 433



TOWNSHIP PLOT

Meridian Line,

Base Line,

Standard Line,

Township Lines,

Section Lines,

Meander Lines,

Office Work.

BOOK 433

24	77	82
22	78	47
23	186	29
	8	7

A. P. Johnson Deputy Surveyor.

T. *22 North* R. *19 East*

Gila and Salt River Meridian.

FIELD NOTES

No. 433

OF

THE SUBDIVISION LINES OF

Township *22 North* Range *19 East*

Gila and Salt River Meridian.

BY

A. P. Johnson Deputy Surveyor.

Under his Contract of *Aug 5th* 188*2*

Survey Commenced *March 12th* 188*3*

Survey Completed *March 14th* 188*3*

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1A

BOOK 433

Township 22 North, Range 19 East,
Gila and Salt River Base and 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

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Township

Range

BOOK 433

1B

Meridian.

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

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

¹
 10 Township
 (See previous page.)

22

Range

19 0

Gila and Salt River Meridian.

Chains

previously set by me.

From the corner to Sections 35, 36, 1 and 2 on the South boundary, I run,
 North, between Sections 35 and 36

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

Ascend.

Set a Basalt stone $16 \times 10 \times 6$ ins., 10
 ins. in the ground, for $\frac{1}{2}$ Sec. Cor., marked $\frac{1}{4}$ on W.
 face and raised a mound of stone. alongside. Pits
 impracticable.

80.00

Set a Basalt stone $20 \times 16 \times 8$ ins. 16 ins. in
 the ground for Cor. to Secs. 25, 26, 35, 36 marked
 with / notch on S. and / notch on E. edges and
 raised a mound of stone. alongside. Pits impracticable.

Land rolling.

Soil 3rd rate

Vegetation Grass

Township

23 1

Range

19 E

Gila and Salt River Meridian.

Chains

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

Variation 13° 30' East.

Descend.

27.10 Cross Wash, 22 lks. wide, Course S, and ascend.

40.00 Set temporary $\frac{1}{4}$ Sec. Cor.80.26 Intersect E. B. of Tp. 36 lks. N. of cor. to secs.
previously set by me.25. 30. 31. 36 \wedge from which corner, I run

N. 89° 45' W. on a true line, between sections 25 & 36

Variation 13° 25' East.

40.13 Set a Lime stone 20 x 10 x 10 ins., 10
ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on N.
face, and raised a mound of stone. alongside. Pits
impracticable.

80.26 The corner to sections 25. 26. 35. 36

Land rolling.

Soil 3^d rate

Vegetation Grass

Township

22 N.

Range

19 E

Gila and Salt River Meridian.

Chains

North, between Sections 25 and 26.

Variation

13° 30'

East.

Descend.

40.00

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

80.00

Set a *Basalt* stone 9 x 11 x 8 ins. 12 ins. in the ground for Cor. to Secs. 23. 24. 25. 26 marked with 2 notches on S. and 1 notch on E. edges and raised a mound of stone. alongside. Pits impracticable.

Land rolling.

Soil 3rd rate

Vegetation Grass.

Timber of Juniper.

Township 22 N Range 19 E

Gila and Salt River Meridian.

Chains East, on a random line between Sections 24 and 25.
Variation $13^{\circ} 24'$ East.*Over rolling land.*40.00 Set temporary $\frac{1}{4}$ Sec. Cor.

78.00 Cross Wash, 10 lks. wide, Course S. Wand ascend.

80.03 Intersect E. B. of Tp. 14 lks. S. of cor. to secs.
previously set by me.

9. 24. 25. 30 from which corner, I run

S $89^{\circ} 04' W$ on a true line, between sections 24 & 25Variation $13^{\circ} 21'$ 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.

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

Land rolling.

Soil 3rd rate

Vegetation Grass

Timber of Juniper

Township

22 N

BOOK 433

Range

19 E

Gila and Salt River Meridian.

Chains

North, between Sections 23 and 24.

Variation

13° 24'

East.

Descend.

44.00

Set a Basalt stone 17 x 11 x 5 ins., 12 ins. in the ground, for $\frac{1}{2}$ Sec. Cor., marked $\frac{1}{2}$ on N. face, and raised a mound of stone. alongside. Pits impracticable.

80.00

Set a Basalt stone 20 x 20 x 8 ins., 16 ins. in the ground for Cor. to Secs. 3, 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 rolling.*Soil 3rd rate

Vegetation Grass

Timber Juniper

Township 22 N Range 19 E

Gila and Salt River Meridian.

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

*Ascend.*40.00 Set temporary $\frac{1}{4}$ Sec. Cor.79.71 Intersect E. B. of Tp. 20 lks. S. of cor. to secs.
 previously set by me.13. 18. 19. 24 \wedge from which corner, I run

59.49 W. on a true line, between sections 13 & 24

Variation 13° 30' East.

39.86 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.

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

Land rolling.

Soil 3rd rateVegetation GrassTimber of Juniper

Township 22 N

BOOK 433

Range 19 E

Gila and Salt River Meridian.

Chains

North, between Sections 13 and 14.

Variation 13° 30' East.

Descend.

30.00 Cross Wash, 15 lks. wide, Course N. 80° E.

40.00 Set a Basalt stone 14 x 10 x 4 ins., 10 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on W. face, and raised a mound of stone. alongside. Pits impracticable.

60.00 Cross Wash, 20 lks. wide, Course E. and ascend.

78.00 Enter Flat

80.00 Set a Basalt stone 17 x 10 x 4 ins. 12 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. level.

Soil 3rd rate

Vegetation Grass

Timber of Juniper.

Township

22 N

Range

19 E

Gila and Salt River Meridian.

Chains

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

Variation $18^{\circ} 30'$ East.*Over flat top of butte.*31.00 *Leave butte & descend.*38.20 *Cross Wash, 20' lks. wide, Course S. 20' and ascend.*40.00 *Set temporary $\frac{1}{4}$ Sec. Cor.*79.92 *Intersect C. B. of Tp. 18 lks. N. of cor. to secs. previously set by me.*7. 12. 13. 18 \wedge *from which corner, I run**N. 59° 02' W. on a true line, between sections 12 & 13*Variation $18^{\circ} 00'$ East.

39.90 *Set a Basalt stone 14 x 7 x 6 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 11, 12, 13, 14**Land rolling.**Soil 3 $\frac{3}{4}$ rate**Vegetation Grass.*

Township

22 N

Range

19 E

Gila and Salt River Meridian.

Chains

North, between Sections 11 and 12.

Variation

13° 30'

East.

Leave top of Butte.

42.00 Set a Basalt stone 26 x 16 x 10 ins., 15 ins. in the ground, for $\frac{1}{2}$ Sec. Cor., marked $\frac{1}{2}$ on N. face, and raised a mound of stone. alongside. Pits impracticable.

Leave Butte base NW & S. E.

80.00

Set a post 4 ft. long, 4 ins. square, with marked stone 12 ins. in the ground, for Cor. to Secs, 1, 2, 11, 12 marked T, 22 N. S. 1, on N, E, R, 19 E, S. 12 on S, E, S, 11 on S, W, and S, 2 on N, W, face with 6 notches on S, and 1 notch 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.

Timber of Juniper.

Township

22

Range

19

Gila and Salt River Meridian.

Chains

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

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

75.00 Top of butte bears N.E. & S.W.

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

l. 6. 7. 12 From which corner, I run

N. 89° 45' W. on a true line, between sections 1 & 12

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

45.07 Set a post 3 ft. long, 3 ins. diam. with marked stone
12 i. s. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ 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.

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

Land rolling.

Soil 3rd rate

Vegetation Grass.

Timber of Juniper.

Township 22 N

Range 19 E

Gila and Salt River Meridian.

Chains

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

Variation 13° 28' East.

*Descend.*40.00 Set temporary $\frac{1}{4}$ Sec. Cor.79.64 Intersect N. B. of Tp. 14 Tks. E of cor. to secs.
previously set by me.

1. 2. 35. 36 ^ from which corner, I run

S. 6' E. on a true line, between sections 12 2

Variation 13° 30' East.

39.64 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.

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

*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. S. Johnson Mar. 12th 1883

Township

22

Range

19 E

Gila and Salt River Meridian.

From the corner to sections, 2, 3, 34, 35, 2 previously set by me.

Chains

Jan North, between Sections 34 and 35.

Variation

13° 30'

East.

Ascend.

40.00

Set a Basalt stone $6\frac{1}{2} \times 10 \times 6$ 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, 26, 27, 34, 35 marked T, 22 N.S, 26, on N, E, R, 19 E, S, 36 on S, E, S, 34 on S, W, and S, 27 on N, W, face with 1 notch 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 around post.

Land rolling.

Soil 3rd rate

Vegetation Grass.

Timber of Juniper

Township

22

N

Range

10

E

Gila and Salt River Meridian.

Chains

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

Variation

12° 30'

East.

Ascend.

27.15 Top of butte and descend

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

79.84 Intersect N. & S. line, 24 lks. S. of cor. to secs.

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

S. 89° 50' W. on a true line between sections 26 & 35

Variation

13° 30'

East

3292

Set a Basalt-stone 20 x 18 x 4 ins., 16-
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 26, 27, 34, 35

Land mountainous.

Soil 3rd rate

Vegetation Grass.

Township 22 N Range 19 E

Gila and Salt River Meridian.

Chains North, between Sections 26 and 27.
Variation 13° 30' East.

Ascend.

20.00

Set a Basalt

40.00

stone 20 x 10 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 Basalt stone 24 x 16 x 10 ins. 21 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 rolling.

Soil 3rd rateVegetation Grass.Timber of Juniper.

Township

22

N

Range

19

E

Gila and Salt River Meridian.

Chains

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

Variation $13^{\circ} 29'$ East.40.00 Set temporary $\frac{1}{4}$ Sec. Cor.

40.00 Leave Mesa and descend

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

22, 24, 26, 28 from which corner, I run

S. 89. 07' W. on a true line between sections 23 & 26

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

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

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

Land rolling level.

Soil 3rd rate

Vegetation Grass.

Township

22

N

Range

19

E

Gila and Salt River Meridian.

Chains

North, between Sections 22 and 23.

Variation

15° 29'

East.

On top of Butte

40.00

Set a Basalt-stone 20 x 20 x 20 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.

80.00

Set a Basalt-stone 20 x 16 x 7 ins. 19 ins. in the ground for Cor. to Secs. 14, 16, 22, 23 marked with 3 notches on S. and 2 notches on E. edges and raised a mound of stone. alongside. Pits impracticable.

Land mountainous. rolling.

Soil 3rd rate

Vegetation Grass.

Timber of Juniper.

Township 22 N Range 19 E

Gila and Salt River Meridian.

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

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

Nearly level.

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

57.11 Descend.

Pa. 36 Intersect N. & S. line, 26 lks. N. of cor. to secs.

3. 14. 23. 24 from which corner, I run

N. $89^{\circ} 49'$ W. on a true line between sections 14 & 23

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

42.78 Set a Basalt-stone $20 \times 10 \times 10$ ins., $\frac{1}{2}$ 16" 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.

Pa. 36 The corner to sections 14. 16. 22. 23

Land rolling.

Soil 3rd rate

Vegetation Grass.

Timber of Juniper.

Township 22 N Range 19 E

Gila and Salt River Meridian.

Chains

North, between Sections 14 and 15.

Variation 13° 30' East.*Descend.*

40.00 Set a Basalt stone 20 x 14 x 6 ins., 15 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.

42.60 Cross Wash, 30 lks. wide, Course N. 20° E and ascend.

80.00 Set a post 4 ft. long, 4 ins. square. with marked stone 12 ins. in the ground, for Cor. to Secs, 10. 11. 14. 15 marked T, 22 N.S., 11, on N, E, R, 19 E, S. 14 on S, E, S, 16 on S, W, and S, 10 on N, W, face 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 around post.

from which

A Juniper 6 ins. diam. bears S. 20° W. 16 lks. dist. marked T. 22 N. R. 19 E. S., 16 B. T.

No other trees within limits.

Land mountainous

Soil 3rd rate

Timber of Juniper.

Vegetation. Grass.

Township

22 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.

60.12 Cross low Sag and ascend.

79.00 On flat top of butte.

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

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

N. $89^{\circ} 51'$ W. on a true line between sections 11 & 14Variation $13^{\circ} 30'$ 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.

79.82 The corner to sections 10, 11, 12, 13

Land rolling.

Soil 3^{rd} rate

Vegetation Grass.

Timber of Juniper.

Township 22 N. 16 E. Range 19 E.

Gila and Salt River Meridian.

Chains

North, between Sections 10 and 11.

Variation 13° 30' 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. 2, 3, 10, 11 marked T, 22 N. S. 2, on N, E, R, 19 E, S. 11 on S, E, S, 10 on S, W, and S, 3 on N, W, face with 5 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 around post.

*Land rolling.*Soil 3^d rateVegetation Grass.

Township 22 NRange 19 E

Gila and Salt River Meridian.

Chains

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

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

79.74 Intersect N. & S. line, 17 lks. S. of cor. to secs.

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

1. 19. 23. W. on a true line between sections 2 & 11

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

32.87

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

79.74

The corner to sections 2. 3. 10. 11

Land rolling.

Soil 3° rate

Vegetation Grass.

Timber of Juniper.

Township

22

N

Range

19

E

Gila and Salt River Meridian.

Chains

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

Variation

13° 30'

East.

*Ascend.*40.00 Set temporary $\frac{1}{4}$ Sec. Cor.79.86 Intersect N.B. of Tp. 22 lks. E. of cor. to secs.
previously set by me.2. 3. 34. 35 - \wedge from which corner, I run

S. 9. E. on a true line, between sections 2 & 3

Variation

13° 30'

East.

39.86 Set a post 3 ft. long, 3 ins. diam. with marked stone

12 ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ S. on

W. face, dug pits, 18 x 18 x 12 ins., N. and S. of

post $5\frac{1}{2}$ ft. dist., and raised a mound of earth $1\frac{1}{2}$ ft.high, $3\frac{1}{2}$ ft. base around post.

79.86 The corner to sections 2, 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 reversing apparatus, and found them correct.

G. H. Carson, Comptroller, Mar. 12th 1888

Township 22 N Range 19 E

Gila and Salt River Meridian.

From the corner to sections, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, previously set by me.

Chains 3000 North, between Sections 33 and 34.Variation 18° 30' East.*Descend.*

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 N. face.

42.00

Cross Wash, 20' wide, Course S. 40' and ascend.

80.00

Set a Basalt stone 16 x 9 x 4 ins. 10 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 rateVegetation Grass

Township 22 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.

Cor. Mesa

18.21 *Leave Mesa base N.E. & S.W.*

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

79.79 *Intersect N. & S. line, 16 lks. S. of cor. to secs. 26, 27, 34, 36 from which corner, I run*

S. $89^{\circ} 53'$ W. on a true line between sections 27 & 34

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

39.89 *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.*

79.79 *The corner to sections 27, 28, 33, 34*

Land rolling.

Soil 3rd rate

Vegetation Grass.

Timber of Juniper.

Township

22 N

Range

19 E

Gila and Salt River Meridian.

Chains

North, between Sections 27 and 28.

Variation 13° East.*Over level land*

40.00 Set a Basalt stone $10 \times 8 \times 4$ ins., 10 ins. in the ground, for $\frac{1}{2}$ Sec. Cor., marked $\frac{1}{2}$ on W. face, and raised a mound of stone. alongside. Pits impracticable.

from which

A Juniper 6 ins. diam. bears S. 44° W. 29 lks. dist. marked $\frac{1}{2}$ S. B. T.

No other trees within limits.

80.00

Set a Basalt stone $19 \times 10 \times 9$ ins. 12 ins. in the ground for Cor. to Secs. 21, 22, 27, 28 marked with 2 notches on S. and 3 notches on E. edges and raised a mound of stone. alongside. Pits impracticable.

*Land level.*Soil 3° rate

Vegetation Grass.

Timber of Juniper.

Township

22 N

Range

19 E

Gila and Salt River Meridian.

Chains

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

Variation 13° 30' East.

Over level land

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

79.90 Intersect N. & S. line 5 lks. S. of cor. to secs.

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

189° 05' W. on a true line between sections 22 & 27

Variation 13° 30' East

39.95 Set a Basalt stone 20 x 10 x 4 ins., 16 ins. in the ground, for $\frac{1}{2}$ Sec. Cor., marked $\frac{1}{2}$ on N. face. and raised a mound of stone. alongside. Pits impracticable.

79.90 The corner to sections 21, 22, 27, 28

Land level.

Soil 3rd rate

Vegetation Grass

Timber of Juniper

Township

22 N

BOOK 433

Range

19 E

Gila and Salt River Meridian.

Chains

North, between Sections 21 and 22.

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

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

50.00

Top of butte bears N. 15° W. & S. 15° E.

80.00

Set a Basalt stone $20 \times 14 \times 6$ ins. 10 ins. in the ground for Cor. to Secs. 15, 16, 21, 22 marked with 3 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 22 N

Gila and Salt River Meridian.

Chains

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

Variation 13° 30' East.

Descend.

40.00 Set temporary 1/4 Sec. Cor.

47.60 Cross Wash, 30 lks. wide, Course N, and ascend.

79.58 Intersect N. & S. line, 38 lks. S. of cor. to secs.

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

S. 52° 44' W. on a true line between sections 15 & 22

Variation 13° 30' East

39.79 Set a Sand stone 14 x 8 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.

79.58 The corner to sections 15. 16. 21. 22

Land rolling.

Soil 3rd rate

Vegetation Grass

Township

22 N.

Range

19 E

Gila and Salt River Meridian.

Chains

North, between Sections 15 and 16.

Variation

13° 30'

East.

*Descend on broken spurs.**36.00 Desc broken and continue to 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
N. face, dug pits, 18 x 18 x 12 ins., S, and O. 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. 9, 10, 15, 16
marked T, 22 N. S. 10, on N, E, R, 19 E. S. 15
on S, E, S, 16 on S, W, and S, 9 on N, W, face
with 4 notches on S, and 3 notches on E, edges,
dug pits 18 x 18 x 12 ins, in each Sec., $5\frac{1}{2}$ ft. dist.,
and raised a mound of earth 2 ft. high, $4\frac{1}{2}$ ft. base
around post.

from which

A Juniper 8 ins. diam. bears N. 15° E. 1.7 kts. dist.
marked T. 22 N. R. 19 E. S., 10 B. T.

No other trees within limits.

Land rolling.

Soil 3rd rate

Vegetation Grass

Timber of Juniper

Township

Range

Gila and Salt River Meridian.

Chains

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

Variation $13^{\circ} 30'$ East.*Descend.*3.43 Cross Wash, 40 lks. wide, Course *N.W.* and ascend.40.00 Set temporary $\frac{1}{4}$ Sec. Cor.60.00 Top of Ridge, bears *N. 10° W.* & $\frac{1}{2}$ S. and descend.

80.10 Intersect N. & S. line, 28 lks. S. of cor. to secs.

10.11. 14. 75 from which corner, I run

S. 89° 45' W. on a true line between sections 10 & 15

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

40.07 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.

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

Land mountainous.

Soil 3rd rate

Vegetation Grass.

Timber of Juniper.

Township 22 N Range 19 E

Gila and Salt River Meridian.

Chains

North, between Sections 9 and 10.

Variation $13^{\circ} 30'$ East.*Descend.*1.20 Cross Wash, 20 lks. wide, Course *N.W.*25.87 Cross Wash, 20 lks. wide, Course *W.* and ascend.

40.00 Set a Basalt-stone $20 \times 10 \times 4$ ins., 16 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

Marked a Basalt-stone $5 \times 4 \times 4$ ins. in the ground for Cor. to Secs. 3, 4, 9, 10 marked with 5 notches on S. and 3 notches on E. edges and raised a mound of stone. alongside. Pits impracticable.

Land rolling.

Soil *ss* rateVegetation *Grass*

Township

22 N

Range

19 E

Gila and Salt River Meridian.

Chains

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

Variation 13° 30' East.

Descend.

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

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

3, 4, 11 from which corner, I run

N. 77° 49' W. on a true line between sections 3 & 10

Variation 13° 30' East

44.20 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.

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

Land rolling.

Soil 3rd rate

Vegetation Grass.

Township 22 N Range 19 E

Gila and Salt River Meridian.

Chains

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

Variation $13^{\circ} 30'$ East.*Ascend.*4.76 Top of Spur, bears *E. & W.* and descend.40.00 Set temporary $\frac{1}{4}$ Sec. Cor.79.97 Intersect *N. B. of Tp. 42* lks. *W.* of cor. to secs.
previously set by me.3. 4. 33. 34 \swarrow from which corner, I run*S. 15' W.* on a true line, between sections 3 & 4Variation $13^{\circ} 30'$ East.39.97 Set a post 3 ft. long, 3 ins. diam. with marked stone
12 ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ S. on
W. face, dug pits, 18 x 18 x 12 ins., *N.* and *S.* of
post $5\frac{1}{2}$ ft. dist., and raised a mound of earth $1\frac{1}{2}$ ft.
high, $3\frac{1}{2}$ ft. base around post.

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

Land mountainous.

Soil 3° rats

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. Mar. 13. 1883

Township *22 N* Range *19 E*

Gila and Salt River Meridian.

From the corner to sections, 4, 5, 32 & 33, ^{on S. By of D} previously set by me.

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

Variation *13° 30'* East.

Ascend.

40.00

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

65.70

Descend. abruptly.

80.00

Set a Basalt-stone 20 x 12 x 12 ins. 16 ins. in the ground for Cor. to Secs. 28, 29, 32, 33 marked with 1 notch on S. and 4 notches on E. edges and raised a mound of stone. alongside. Pits impracticable.

Land rolling.

Soil 3rd rate

Vegetation Grass

Timber of Juniper

Township 22 N Range 19 E

Gila and Salt River Meridian.

Chains

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

Variation 10° 35' East.*Ascend.*10.12 Top of bluff bears N. 80° W. & S. 80° E.40.00 Set temporary $\frac{1}{2}$ Sec. Cor.43.20 Cross Wash, 20 lks. wide, Course S. 30° E and ascend.50.20 Intersect N. & S. line, 111 lks. S. of cor. to secs.
27. 28. 33. 34 from which corner, I runS. 89° 54' W. on a true line between sections 28 & 33Variation 13° 30' East40.15 Set a post 3 ft. long. 3 ins. diam. with marked stone12 ins. in the ground, for $\frac{1}{2}$ Sec. Cor., marked $\frac{1}{2}$ S. onN. face, dug pits, 18 x 18 x 12 ins., E. and W of
post 5 $\frac{1}{2}$ ft. dist., and raised a mound of earth 1 $\frac{1}{2}$ ft.high, 3 $\frac{1}{2}$ ft. base around post. from whichA Juniper 8 ins. diam. bears N. 65° W. 20 lks. dist.marked $\frac{1}{2}$ S. B. T.

No other trees within limits.

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

Land rolling.

Soil st rateVegetation GrassTimber of Juniper

Township 22 N Range 19 E

Gila and Salt River Meridian.

Chains

North, between Sections 28 and 29.

Variation 13° 30' East.*Descend.*

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. 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. 22 N. S. 21 on N. E. R. 19 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 rolling.

Soil 3rd rateVegetation Grass.

Township

22 N

Range

19 E

Gila and Salt River Meridian.

Chains

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

Variation $13^{\circ} 35'$ East.*Ascend.*

22.50 On the mesa, leave N. & S.

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

72.87 Intersect N. & S. line, 26 lks. N. of cor. to secs.

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

N. $89^{\circ} 49' W.$ on a true line between sections 21 & 28Variation $13^{\circ} 30'$ East39.93 Set a Basalt stone $20 \times 12 \times 8$ ins., 16 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.

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

Land level. rolling.

Soil 3rd rate

Vegetation Grass.

Township 22 N Range 19 E

Gila and Salt River Meridian.

Chains

North, between Sections 20 and 21.

Variation 13° 36' East.

Descend.

40.00

Set a Basalt stone 20 x 12 x 8 ins., 15 ins. in the ground, for $\frac{1}{2}$ Sec. Cor., marked $\frac{1}{2}$ on W face, and raised a mound of stone. alongside. Pits impracticable.

60.00

Ascend.

80.00

Set a Basalt stone 20 x 12 x 4 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.

700

Township 22 N Range 19 E

Gila and Salt River Meridian.

Chains East, on a random line between Sections 16 and 21.
Variation 13° 30' East.

Ascend.

26.00 Top of little beam N. 10° W. & S. 10° E.

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

80.35 Intersect N. & S. line, 47 lks. N. of cor. to sec.

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

N. 89° 45' W. on a true line between sections 16 & 21

Variation 13° 30' East

40.19 Set a Basalt stone 20 x 16 x 12 ins., 20 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.

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

Land rolling.

Soil 3rd rate

Vegetation Grass

Township 22 N Range 10 E

Gila and Salt River Meridian.

Chains North, between Sections 16 and 17.

Variation 28° 30' East.*Ascend.*

40.00 Set a Basalt stone 16 x 9 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.

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

78.20 Cross Wash, 30 lks. wide, Course S. 80° W and ascend.

82.00 Deposited a marked stone, 12 ins. in the ground, for
 cor. 5 secs. 8. 9. 10. 17, 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. 22 N. S. 9 on N. E. R. 19 E. S. 10 on
S. E. S. 17 on S. W and S. 8 on N. W faces,
 with 4 notches on S. and 4 notches on E. edges.

Land mountainous.Soil 3rd rateVegetation Grass.

Township 22 N Range 19 E

Gila and Salt River Meridian.

Chains

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

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

Descend.

35.00 Cross Wash, 45 fks. wide, Course S. 25' and ascend.

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

45.10 Top of Spur, bears N. 2 S. and descend.

50.19 Intersect N. & S. line, 39 fks. N. of cor. to secs.

9. 10. 16 from which corner, I run

N. 89° 45' W. on a true line between sections 9 & 16

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

40.09 Set a Basalt-stone $15 \times 12 \times 6$ ins., 10 ins. in the ground, for $\frac{1}{4}$ 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.

50.19 The corner to sections 8. 9. 10. 17

Land mountainous.

Soil 3rd rate

Vegetation Grass..

Township

Range

Gila and Salt River Meridian.

Chains

North, between Sections 8 and 9.

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 N. face.

45.10 Cross Wash, 30 lks. wide. Course S. 90° and ascend.

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

80.00 Deposited a marked stone, 12 ins. in the ground, for cor to sec. 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. 22 N. S. 4 on N. E. R. 19 S. 9 on S. E. S. 8 on S. W and S. 5 on N. W faces, with 8 notches on S. and 4 notches on E. edges.

Land mountainous.

Soil 3rd rate

Vegetation Grass.

Township 22 N Range 19 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 1/2 Sec. Cor.

50.00 Top of Spur, bears N. & S. and descend.

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

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

S. 29° 07' W. on a true line between sections 4 & 9

Variation 13° 30' East

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

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

Land mountainous.

Soil 3rd rate

Vegetation Grass.

Township 22 1

Range 19 C

Gila and Salt River Meridian.

Chains

North, on a random line between Sections 4 and 5.

Variation 13° 30' East.

*Descend.*40.00 Set temporary $\frac{1}{4}$ Sec. Cor.80.21 Intersect N.B. of Tp. 46 lks. W. of cor. to secs.
previously set by me.

4. 6. 32. 33 ^ from which corner, I run

S. 20° W. on a true line, between sections 4 & 5

Variation 13° 30' East.

110.21 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
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.

80.24 The corner to sections 46, 47, 81, 91

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. Carson. Compassman. Nov. 13, 1883

Township 22 N Range 19 E

Gila and Salt River Meridian.

~~From the corner to sections, 5, 6, 31 & 32 previously set by me.~~

Chains *Iron* North, between Sections 31 and 32.

Variation 13° 30' East.

Descend.

42.00

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.

45.00

Descend. *more abruptly.*

80.00

Set a Basalt-stone 18x16x14 ins. 12 ins. in the ground for Cor. to Secs. 29, 30, 31, 32 marked with 1 notch on S. and 5 notches on E. edges and raised a mound of stone alongside. Pits impracticable.

Land rolling.

Soil 3rd rate

Vegetation Grass.

Township

22 N

Range

19 E

Gila and Salt River Meridian.

Chains

East, on a random line between Sections 29 and 32.

Variation

13° 50'

East.

Descend.

20.00 Cross Wash, 100 yds. wide, Course N. 30° W. and ascend.

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

79.72 Intersect N. & S. line, 31 yds. N. of cor. to secs.

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

N. 89° 47' W. on a true line between sections 29 & 32

Variation

13° 25'

East

59.80 Set a Basalt-stone 16 x 8 x 6 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.

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

Land rolling.

Soil 3rd rate

Vegetation Grass.

A. P. Johnson, Mar. 14th 1883

Township 22 N Range 19 E

Gila and Salt River Meridian.

Chains West, on a random line between Sections 30 and 31.
 Variation 13° 30' East.

Descend.

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

77.60 Intersect W. B. of Tp. 42 lks. S. of cor. to secs.
 previously set by me.

25. 30. 31. 32 from which corner, I run

S. 89° 42' On a true line, between sections 30 & 31

Variation 13° 30' East.

37.60 Deposited 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.

77.60 The corner to sections 29. 30. 31. 32

Land rolling.

Soil g^o rats

Vegetation Grass

C. M. Carson Compeassman, March, 4th 1823

Township 22 N Range 19 E

Gila and Salt River Meridian.

Chains North, between Sections 29 and 30.

Variation 13° 50' East.

Descend.

8.25 Cross Wash, 40 lks. wide, Course W, and ascend.

20.11 Foot of butte base E. & W.

40.00 Set a Basalt-stone 20 x 18 x 16 ins., 15 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.

41.00 Top of round Butte and descend

59.00 Foot of butte.

80.00 Deposited a marked stone, 12 ins. in the ground, for cor^r 2 secs. 19. 20. 29. 30, 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. 22 N. S. 20 on N. E. R. 19 S. 29 on S. E. S. 30 on S. W and S. 19 on N. W faces, with 2 notches on S. and 5 notches on E. edges.

Land mountainous.

Soil 3rd rateVegetation Grass.

Township 22 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.

18.76 Cross Wash, 10 lks. wide, Course N.W. and ascend.

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

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

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

1.89° 50' W. on a true line between sections 20 & 29

Variation 13° 35' East

39.89 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 $\frac{1}{8}$ ft. dist., and raised a mound of earth 1 $\frac{1}{2}$ ft.high, 3 $\frac{1}{2}$ ft. base around post.

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

Land rolling.

Soil 2nd rate

Vegetation Grass.

A. P. Johnson March 11th 1885

Township

22 N

Range

19 E

Gila and Salt River Meridian.

Chains

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

Variation 18° 30' East.

Descend.

40.00 Set temporary $\frac{1}{4}$ Sec. Cor.77.90 Intersect W.B. of Tp. 20 lks. S. of cor. to secs.
previously set by me.

9. 24. 26. 30 from which corner, I run

S. 59. 61. E on a true line, between sections 19 & 30

Variation 18° 30' East.

57.96 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.

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

Land rolling.

Soil 2:3 rate

Vegetation Grass

G. M. Brown, Compassman, March 14, 1883

Township

22 N

Range

19 E

Gila and Salt River Meridian.

Chains

North, between Sections 19 and 20.

Variation

13° 30'

East.

Descend.

23.00 Cross Wash, 10 lks. wide, Course N. W.

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.

42.00 Cross Wash, 20 lks. wide, Course W.

50.00 *Ascend.*

30.00 Deposited a marked stone, 12 ins. in the ground, for cor. to secs. 17. 18. 19. 20, 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. 12 N. S. 17 on N. E. R. 19 E. S. 20 on S. E. S. 19 on S. W and S. 18 on N. W faces, with 3 notches on S. and 5 notches on E. edges.

Timber of *Juniper*.

Land rolling.

Soil 3rd rate

Vegetation Grass.

Township 22 N Range 19 E

Gila and Salt River Meridian.

Chains

East, on a random line between Sections 17 and 20.

Variation 13° 30' East.

Descend.

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

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

82.13 Intersect N. & S. line. 28 lks. N. of cor. to secs.

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

N. 89° 45' W. on a true line between sections 17 = 20

Variation 13° 30' East

40.00 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.

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

Land rolling.

Soil 3rd rate

Vegetation Grass.

Timber of Juniper.

A. P. Johnson. March 4th 1883

Township

22 N

Range

19 E

Gila and Salt River Meridian.

Chains

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

Variation $13^{\circ} 30'$ East.*Ascend.*26.16 Top of Spur, bears $N 20^{\circ} E$ and descend.40.00 Set temporary $\frac{1}{4}$ Sec. Cor.77.89 Intersect W. B. of Tp. 22 lks. N. of cor. to secs.
previously set by me.
13. 18. 19. 24 from which corner, I run $N. 89^{\circ} 51' E$ on a true line, between sections 18 & 19Variation $13^{\circ} 30'$ East.32.89 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 N. pit drove a stake 2
ft. long, 2 in. square, 12 ins. in the ground, marked $\frac{1}{4}$
s. on N. face.

74.89 The corner to sections 17 - 18 - 19 + 20 -

Land mountainous.

Soil 3rd rate

Vegetation Grass.

G. M. Carson, Surveyman, March 25th 1883

Township

22 N

Range

19 E

Gila and Salt River Meridian.

Chains

North, between Sections 17 and 18.

Variation

13° 30' East.

Ascend.

46.00

Set a Basalt stone 20 x 14 x 16 ins., 1/2 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on W face, and raised a mound of stone. alongside. Pits impracticable.

65.00

Top of butte and ascend

80.00

Set a Basalt stone 10 x 10 x 8 ins. 10 ins. in the ground for Cor. to Secs. 7, 8, 17, 18 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

Timber of Juniper

Township

22 N.

Range

19 E.

Gila and Salt River Meridian.

Chains

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

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

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

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

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

S. $89^{\circ} 53'$ W. on a true line between sections 8 & 17Variation $13^{\circ} 30'$ East

40.01 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.

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

Land rolling.

Soil 3rd rate

Vegetation Grass.

A. P. Johnson. March 14th 1883

Township

22 N

Range

19 E

Gila and Salt River Meridian.

Chains

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

Variation 13° 30' East.

Ascend.

8.70 Top of Spur, bears N 2° E and descend.

40.00 Set temporary 1/4 Sec. Cor.

75.12 Intersect W. B. of Tp. 36 1/2 s. N. of cor. to secs. previously set by me.

7. 12. 13. 18 from which corner, I run

N 89° 45' E on a true line, between sections 7 & 18

Variation 13° 30' East.

38.12 Set a Basalt-stone 20 x 16 x 4 ins., 1/2-ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on N. face, dug pits 18 x 18 x 12 ins., E. and W. of stone 5 1/2 ft. dist., and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base. alongside.

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

Land mountainous.

Soil 3rd rate

Vegetation Sage

G. N. Cronin, Comptroller. March 20, 1882

Township

22 N

Range

19 E

Gila and Salt River Meridian.

Chains

North, between Sections 7 and 8.

Variation

13° 30' East.

Ascend.

20.07

Top of butte bear E. & W. & descend abruptly.

42.50

Set a Basalt stone 16 x 9 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.

45.00

Descend more abruptly.

30.00

Set a Basalt stone 16 x 8 x 8 ins., 10 ins. in the ground for Cor. to Secs. 5, 6, 7, 8 marked 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. alongside.

Land rolling.

Soil 3rd rate

Vegetation Grass.

Township 22 N. Range 19 E.

Gila and Salt River Meridian.

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

Descend.

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

51.70 Cross low Sag and ascend.

79.00 Intersect N. & S. line, 32 lks. \odot of cor. to secs.
1. 6. 7. 9 from which corner, I run

1. 9. 46 W. on a true line between sections 5 & 8

Variation $12^{\circ} 30'$ East

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

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

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.

A. P. Johnson. March 11th 1893

Township

22

N

Range

19

E

Gila and Salt River Meridian.

Chains

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

Variation 13° 30' East.

Ascend.

9.50 Top of Spur, bears N. 65° W. 3.65' and descend.

40.00 Set temporary $\frac{1}{4}$ Sec. Cor.78.54 Intersect N. B. of Tp. 24 lks. S. of cor. to secs.
previously set by me.
1. 6. 7. 12. \wedge from which corner, I run

1. 89° 50' E. on a true line, between sections 6 & 7

Variation 13° 30' East.

37.54 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.

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

Land mountainous.

Soil 3^d rate

Vegetation Grass.

Township 22 N

Range 19 E

Gila and Salt River Meridian.

Chains

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

Variation $13^{\circ} 30'$ East.*Descend.*38.50 Cross Wash, 25 $\frac{1}{2}$ lks. wide, Course N. 81 $\frac{1}{2}$ W. and ascend.40.00 Set temporary $\frac{1}{4}$ Sec. Cor.80.46 Intersect N. B. of Tp. 14 lks. S. of cor. to secs.
previously set by me.

S. E. 21. 32 from which corner; I run

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

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

10.20 Set a Basalt stone $12 \times 7 \times 6$ ins., 8 ins.
in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on W. face,
dug pits $18 \times 18 \times 12$ ins., N. and S. of stone $5\frac{1}{2}$
ft. dist., and raised a mound of earth $1\frac{1}{2}$ ft. high, $3\frac{1}{2}$
ft. base alongside.

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

Land mountainous.

Soil 5 $^{\circ}$ rate

Vegetation Grass & Sagebrush.

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. Carson, Compassman, March 14, 1873

GENERAL DESCRIPTION.

This Township has a variety of grades in land.

The bottom part is very rough and rocky, it is covered with a heavy growth of juniper and a few pine trees. Grass is poor and a little sage.

The Northern part is not so rough and has some good grazing land, there is some scattering juniper and a very little sagebrush.

Two large Butte stand near the Northern boundary. The soil is 3rd rate. There is a good spring in the S. W. 1/4 of Section 26.

For final notes
see book 19-

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

The foregoing Field Notes of the survey of the

Subdivisions 22 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, 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. Robbins
Surveyor General.