

4th Guide Meridian

Captain
Comer passed
written

28" 1891

BOOK 1359

Sent to Com U.L.O. Feb 6th 1892
Upward, March 18th 1892

6 + ✓

No 1359

4-671

No 1359

1359

BOOK 1359

FIELD NOTES

GENERAL LAND OFFICE

of the survey
of the

"4th Guide Meridian"
through Tps 27, 28, 29 N. R. S. 16, 17
East.

Surveyed by John C. Smith
U. S. Dep. Sur.

Under his contract No 16
Survey commenced May 9, 1891
completed June 18, 1891

Index.

Pages.

17th Guide Mindiac Strongh 9/30. 27 77. / 15 10
 " " " " " 29 " 12 " 13

4th Guide Mex. E.

5.277.

5.297.

1	1	6	1	6
12	3	7	12	7
13	4	18	13	18
24	5	19	24	19
25	7	30	25	30
36	8	31	36	12 31

No. 1359

BOOK 1359

1A/

CHAINS. Fourth Guide Meridian through Sp. 27N.

At the cor. to Sp.
 27 and 28 n. As 16 and 17 E.
 I took an observation on
 Polaris by observing it at
 its lower culmination. by
 the meridian thus obtained
 I determined the magnetic
 variation to be $13^{\circ} E$,
 From the cor. to Sp. 27
 and 28 n. As 16 and 17 E.
 I run south lat. 219 1
 and 6,

To $13^{\circ} E$.

Descend gradually.

16.40

Wash...10...lks. wide course, S.E.

20.00

Set a sandstone $1.7 \times 1.7 \times 7$ ins., 8 ins.
 in the ground, for $\frac{1}{16}$ Sec. Cor., marked $\frac{1}{16}$ on W .
 face, dug pits $18 \times 18 \times 12$ ins., N . and S . of stone
 5 1-2 ft. dist., and raised a mound of earth 1 1-2 ft.
 high, 3 1-2 ft. base, alongside,

22.30

Wash...10...lks. wide course, S.E.

CHAINS

Fourth Guide Meridian through Tps. 27 N.

26.30 Trail bears E. and W.

27.00 " " " " "

34.00 Wash...40...lks. wide course, S.E.

40.00 Set a sandstone $10 \times 8 \times 7$ ins., 11 ins. in the ground, for 114 Sec. Cor., marked 114 on $W.$ face, dug pits $18 \times 18 \times 12$ ins., $N.$ and $S.$ of stone 5 1-2 ft. dist., and raised a mound of earth 1 1-2 ft. high, 3 1-2 ft. base, alongside,

40.50 Wash...18...lks. wide course, S.E.

46.52 Trail bears N. W. and S. E.

60.00 Set a sandstone $9 \times 8 \times 7$ ins., 6 ins. in the ground, for 116 Sec. Cor., marked 116 on $W.$ face, dug pits $18 \times 18 \times 12$ ins., $N.$ and $S.$ of stone 5 1-2 ft. dist., and raised a mound of earth 1 1-2 ft. high, 3 1-2 ft. base, alongside,

64.10 Trail bears N. E. and S. W.

77.40 Trail bears N. E. and S. W.

80.00 Set a sandstone $13 \times 12 \times 8$ ins., 8 ins. in the ground for Cor. to Secs. 107 and 12 marked with 5 notches on $S.$ and 1 notch on $N.$ edges, dug pits $18 \times 18 \times 12$ ins. in each Sec. 5 1-2 ft. dist. and raised a mound of earth 2 ft. high, 4 1-2 ft. base, alongside.

Surface gently rolling.

Soil 2nd rate.

Good grass.

CHAINS. Fourth Guide Meridian through Sp. 27 N.

North bet. Sps. 7 and 12.
 Va. 13° E.

Over gently rolling surface.

5.00 Trail bears N. E. and S. W.

13.40 Trail bears N. E. and S. W.

20.00 Set a sandstone 16 X 12 X 3 ins., 8 ins. in the ground, for 116 Sec. Cor., marked 116 on W. face, dug pits 18x18x12 ins., N. and S. of stone 5 1-2 ft. dist., and raised a mound of earth 1 1-2 ft. high, 3 1-2 ft. base, alongside,

40.00 Set a sandstone 22 X 8 X 8 ins., 16 ins. in the ground, for 114 Sec. Cor., marked 114 on W. face, dug pits 18x18x12 ins., N. and S. of stone 5 1-2 ft. dist., and raised a mound of earth 1 1-2 ft. high, 3 1-2 ft. base, alongside,

48.88 Trail bears N. E. and S. W.

60.00 Set a sandstone 12 X 10 X 8 ins., 8 ins. in the ground, for 116 Sec. Cor., marked 116 on W. face, dug pits 18x18x12 ins., N. and S. of stone 5 1-2 ft. dist., and raised a mound of earth 1 1-2 ft. high, 3 1-2 ft. base, alongside,

80.00 Set a sandstone 17 X 10 X 8 ins., 11 ins. in the ground for Cor. to Secs. 7, 12, 13 and 18 marked with 4 notches on S. and 2 notches on N. edges, dug pits 18X18X12 ins. in each Sec. 5 1-2 ft. dist. and raised a mound of earth 2 ft. high, 4 1-2 ft. base, alongside.

CHAINS *Fourth Guide Meridian through Twp 27 N*

Surface gently rolling.

Soil 2nd rate.

Good grass.

North lat. Dec. 13 and 18.
74. 13° E.

Over gently rolling surface.

20.00 Set a sandstone $20 \times 10 \times 6$ ins., 15 ins. in the ground, for 116 Sec. Cor., marked 116 on W face, dug pits $18 \times 18 \times 12$ ins., N and S of stone 5 1-2 ft. dist., and raised a mound of earth 1 1-2 ft. high, 3 1-2 ft. base, alongside,

23.00 Trail bears N. E. and S. W.

40.00 Set a sandstone $12 \times 8 \times 6$ ins., 8 ins. in the ground, for 114 Sec. Cor., marked 114 on W face, dug pits $18 \times 18 \times 12$ ins., N and S of stone 5 1-2 ft. dist., and raised a mound of earth 1 1-2 ft. high, 3 1-2 ft. base, alongside,

60.00 Set a sandstone $14 \times 12 \times 3$ ins., 9 ins. in the ground, for 116 Sec. Cor., marked 116 on W face, dug pits $18 \times 18 \times 12$ ins., N and S of stone 5 1-2 ft. dist., and raised a mound of earth 1 1-2 ft. high, 3 1-2 ft. base, alongside,

70.95 Trail bears N. W. and S. E.

CHAINS. Fourth Guide Meridian through Twp 27 N.

80.00

Deposited a marked stone 12 ins. in the ground, for Cor. to Secs. ³ 18, 19 and 24, dug pits 18X18X12 ins. in each Sec., 5 1-2 ft. dist., and raised a mound of earth 2 ft. high, 4 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. 27... N. S. 18 on N. E.

R. 17... E. S. 19 on S. E.

R. 16 E, S. 24 on S, W, and

S. 13 on N. W. faces, with 3 notches on

S. and 3 notches on N. edges.

Surface gently rolling.

Soil 2nd rate.

Good grass.

North bet Secs 19 and 24
Ta. 13° E.

Over gently rolling surface.

120

Trail bears N. E. and S. W.

20.00

Deposited a marked stone 12 ins. in the ground, for ~~116~~ Sec. Cor., dug pits 18X18X12 ins. N. and ... S. ... of corner 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 ins. square, 12 ins. in the ground, marked ~~116~~ S, on ... W. ... face,

CHAINS. *Fourth Guide Meridian through Twp. 27N*

40.00

Deposited a marked stone 12 ins. in the ground, for ~~14~~ Sec. Cor., dug pits 18X18X12 ins. N. and S. of corner 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 ins. square, 12 ins. in the ground, marked ~~14~~ S, on W. face,

60.00

Set a sandstone ~~17~~ X ~~10~~ X ~~4~~ ins., ~~11~~ ins. in the ground, for ~~16~~ Sec. Cor., marked ~~16~~ on W. face, dug pits 18x18x12 ins. N. and S. of stone 5 1-2 ft. dist., and raised a mound of earth 1 1-2 ft. high, 3 1-2 ft. base, alongside,

80.00

Deposited a marked stone 12 ins. in the ground, for Cor. to Secs. ~~19~~ ~~24~~ ~~25~~ ~~30~~, dug pits 18X18X12 ins. in each Sec., 5 1-2 ft. dist., and raised a mound of earth 2 ft. high, 4 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. ~~27~~ N. S. ~~19~~ on N. E.

R. ~~17~~ E. S. ~~30~~ on S. E.

R. 16 E. S. ~~25~~ on S, W, and

S. ~~24~~ on N. W. faces, with ~~2~~ notches on

S. and ~~4~~ notches on N. edges.

Surface gently rolling.

Soil 2nd rate.

Good grass.

CHAINS, *Fourth Guide Meridian + Average T. 270*

*Smith Mt. Dis. 25 and 30,
Ya. 130 E.*

Over gently rolling surface.

20.00 Deposited a marked stone 12 ins. in the ground, for *116* Sec. Cor., dug pits 18X18X12 ins.N. and ..S.of corner 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 ins. square, 12 ins. in the ground, marked *116* S, on ...W. face,

22.70 Trail bears N. W. and S. E.

38.60 Trail bears N. W. and S. E.

40.00 Deposited a marked stone 12 ins. in the ground, for *114* Sec. Cor., dug pits 18X18X12 ins.N. and ...S.of corner 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 ins. square, 12 ins. in the ground, marked *114* S, on ...W. face,

60.00 Deposited a marked stone 12 ins. in the ground, for *116* Sec. Cor., dug pits 18X18X12 ins.N.and ..S.of corner 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 ins. square, 12 ins. in the ground, marked *116* S, on ...W. face,

63.57 Trail bears N. W. and S. E.

8.

CHAINS *Fourth Guide Meridian through Twp. 27N*

80.00

Deposited a marked stone 12 ins. in the ground, for Cor. to Secs. 25, 30, 31, and 36 dug pits 18X18X12 ins. in each Sec., 5 1-2 ft. dist., and raised a mound of earth 2 ft. high, 4 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. 27... N. S. 30... on N. E.

R. 17... E. S. 31... on S. E.

R. 16 E S. 30... on S, W, and

S. 25... on N. W. faces, with.....notches on

S. and.....notches on N. edges.

Surface gently rolling. and rolling.

Soil 2nd rate.

Good grass.

South lat. Sec. 31 and 36

Ta. 130 E.

Over heavy rolling surface

4.82

Trail bears N. W. and S. E.

20.00

Deposited a marked stone 12 ins. in the ground, for 1/6 Sec. Cor., dug pits 18X18X12 ins. N. and ... S. of corner 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 ins. square, 12 ins. in the ground, marked 1/6 S, on W. face,

CHAINS

Fourth Guide Meridian Spring, Twp. 27 N.

40.00

Deposited a marked stone 12 ins. in the ground, for ^{1/4} Sec. Cor., dug pits 18X18X12 ins. N. and S. of corner 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 ins. square, 12 ins. in the ground, marked ^{1/4} S, on W. face,

5330

Trail bears N. W. and S. E.

60.00

Set a sandstone ¹⁸ X ¹⁶ X ² ins. ¹² ins. in the ground, for ^{1/6} Sec. Cor., marked ^{1/6} on W. face, dug pits 18x18x12 ins., N. and S. of stone 5 1-2 ft. dist., and raised a mound of earth 1 1-2 ft. high, 3 1-2 ft. base, alongside,

80.00

Set a sand stone 16x13x3 ins, 11 ins. in the ground for Cor. to Tps. 26 and 27 N. R's 16 and 17 E. marked with 6 notches on N. S. E. and W. edges. dug pits 24x18x12 ins. lengthwise. on line N. S. E. and W. of stone 6 ft. dist. and raised a mound of earth 2 1/2 ft. high 5 ft. base

CHAINS Fourth Guide Mountain Sta. Jan. 2771

alongside.

Surface rolling and hilly.

Soil 2nd. Gravel.

Good Grass.

May. 9th. 1891

BOOK 1359

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CHAINS *Fourth Geodesic Meridian, through Sps. 29 n.*

From Sta. ^{Standard Cor.} 17 Sps. 29. n.
 Obs 16 and 17 E. 8 mm
 North lat. Obs. 31 and 36,
 γ_a 13° E.

Descr.

- 20.00 Set a sandstone $14 \times 12 \times 4$ ins., 9 ins. in the ground, for 116 Sec. Cor., marked 116 on W face, dug pits $18 \times 18 \times 12$ ins., N and S of stone 5 1-2 ft. dist., and raised a mound of earth 1 1-2 ft. high, 3 1-2 ft. base, alongside,
- 29.65 *Trail to Heams' bars E and W.*
- 40.00 Set a sandstone $12 \times 12 \times 8$ ins., 8 ins. in the ground, for 14 Sec. Cor., marked 14 on W face, dug pits $18 \times 18 \times 12$ ins., N and S of stone 5 1-2 ft. dist., and raised a mound of earth 1 1-2 ft. high, 3 1-2 ft. base, alongside,
- 42.00 Wash 50 lks. wide course, *West*,
- 53.00 Wash 100 lks. wide course, *"*
- 55.00 Wash 90 lks. wide course, $D. 70^\circ W.$
- 58.85 *Trail bars E. and W.*
- 60.00 Set a sandstone $17 \times 10 \times 2$ ins., 11 ins. in the ground, for 116 Sec. Cor., marked 116 on W face, dug pits $18 \times 18 \times 12$ ins., N and S of stone 5 1-2 ft. dist., and raised a mound of earth 1 1-2 ft. high, 3 1-2 ft. base, alongside,

CHAINS Fronte Guide Mendocino through Tps. 24 N.

65.30

Trail from E. and W.

80.00

Set a sandstone 24 X 11 X 2 ins. 18
ins. in the ground for Cor. to Secs. 25, 30, 31 and 36
marked with 1 notch on S. and 5 notches on N.
edges, dug pits 18X18X12 ins. in each Sec. 5 1-2 ft.
dist. and raised a mound of earth 2 ft. high, 4 1-2 ft.
base, alongside.

Surfau hilly

Soil 3rd. rate.

Grass poor.

North of this is a high
bluff and a mountainous
country cut by deep
cañons.

June 18th 1891

U. S. Surveyor-General's Office,

TUCSON, A. T., Feb 6th 1882

The foregoing Field Notes of the Surveys of
Hth Guide Meridian
through Tps. 27 and 29 N

..... Gila and Salt River Meridian

in Arizona executed by

John B. Smith

U. S. Deputy Surveyor, under his contract dated

November 4th 1880

having been critically examined, the necessary corrections and explanations made, the said Field Notes and the surveys they describe are hereby approved.

Royal A. Johnson

U. S. Surveyor-General
for the Territory of Arizona.