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FIELD-NOTES BOOK 1349

No. 1349

The 5th Auxiliary Guide Meridian,

along W. boundaries of
Townships 9 and 10 North

Range 21 East

BOOK 1349

Gila and Salt River Meridian Arizona.

BY

O. D. Wheeler Deputy Surveyor,

under his contract of *July 17th* 1882.

Survey commenced *January 19th* 1883.

Survey completed *January 20th* 1883.

Platted by *No. 1349*

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Copied for Washington by

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Copied for Register by

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For preliminary
 notes and description
 of instrument used
 see book No. 1.

No. 1349

Chains.

Standard
From the Cor. to Tps. 9 N. Rs. 20 & 21^E,
previously set by me. I run,

North on a true line between sections 31^{and} 36.

Va. 130° 00' East.

Descend.

7.72 Cross Wash, 8 lks. wide, Course S.E. and ascend.

40.00 Set a Sand stone 10 x 10 x 6 ins., 7
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 Live Oak 5 ins. diam. bears S. 37° W., 6 lks. dist.
marked $\frac{1}{2}$ S. B. T.

A Yellow Pine 10 ins. diam. bears N. 48° E., 22 lks. dist.
marked $\frac{1}{2}$ S. B. T.

45.34 Cross Wash, 19 lks. wide, Course S. 44° E. and ascend.

68.79 A Yellow Pine 13 ins. diam.

80.00 A Yellow Pine 34 ins. diam.

which I marked T 9 N. S. 30 on N. E. R. 21^E S. 31 on
S. E. S. 36 on S. W. and S. 25 on N. W. faces, with
/ notch on S. and 5 notches on W. edges, for
Cor. to Secs. 25, 30, 31^{and} 36, from which

A Yellow Pine 10 ins. diam. bears N. 56° E., 95 lks. dist.

5th Auxiliary Guide Meridian,

W. B. T. 9 N. R. 21 E. G. & S. R. M.

BOOK 1349

Chains.

marked T. 94 R. 21 E, S., 30 B. T.

A Yellow Pine 9 ins. diam. bears $S. 80^{\circ} E$, 60 lks. dist.

marked T. 94, R. 21 E, S., 31 B. T.

A Yellow Pine 9 ins. diam. bears $S. 42^{\circ} W$, 18 lks. dist.

marked T. 94, R. 20 E, S., 36 B. T.

A Yellow Pine 11 ins. diam. bears $N. 31^{\circ} W$, 78 lks. dist.

marked T. 94, R. 20 E S., 25 B. T.

Land rolling.

Soil *zone* rate,

Heavy timber of Pine ^{and} Oak,

Undergrowth of same.

Chains.

North on a true line between sections 25th & 30.

Va. 12° 00' East.

Ascend.

40.00 Set a sand stone 23 x 12 x 6 ins., 17 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.

from which

A Juniper 13 ins. diam. bears N 88° E, 41 lks. dist marked $\frac{1}{4}$ S. B. T.

A Yellow Pine 10 ins. diam. bears N. 67° W, 47 lks. dist. marked $\frac{1}{4}$ S. B. T.

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

70.51 Cross Wash, 7 lks. wide, Course S. 45° E, and ascend.

80.00 Set a sand stone 34 x 18 x 13 ins. 25 ins. in the ground for Cor. to Secs. 19, 24, 25th & 30, marked with 2 notches on S. and 4 notches on W. edges and raised a mound of stone. alongside. Pits impracticable.

from which

A Yellow Pine 12 ins. diam. bears N. 56° E, 154 lks. dist. marked T. 9 N., R. 21 E., S., 19 B. T.

A Yellow Pine 18 ins. diam. bears N. 44° W, 116 lks. dist. marked T. 9 N., R. 20 E., S., 24 B. T.

BOOK 1349

Chains,

No other trees within limits.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine & Oak.

Undergrowth of same.

North on a true line between sections 19th & 24.

Va. 130° 00' East.

Ascend.

40.00 Set a sandstone 15 x 13 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.

60.00 Top of Spur, bears N. 37° W. and descend.

78.19 Cross Wash, 20 lks. wide, Course S 57° E and ascend.

80.00 Set a sand stone 17 x 10 x 7 ins. 11 ins. in the ground for Cor. to Secs. 13, 18, 19th & 24, marked with 3 notches on S. and 3 notches on W. edges and raised a mound of stone. alongside. Pits impracticable. from which

1 Yellow Pine 13 ins. diam. bears N 52° E, 42 lks. dist. marked T. 9 N. R. 21 E. S. 18 B. T.

1 Yellow Pine 12 ins. diam. bears S 60° W, 60 lks. dist.

5th Auxiliary Guide Meridian,
W. B. T. 9 N. R. 21 E. G. & S. R. M.

Chains.

BOOK 1849

marked T. 94, R. 20 E, S., 24 B. T.

1 White Oak 10 ins. diam. bears S. 18° E, 92 lks. dist.

marked T. 94, R. 21 E, S., 19 B. T.

No other trees within limits.
Land mountainous

Soil 3rd rate,

Heavy timber of Pine & Oak!

Undergrowth of same.

North on a true line between sections 13th W 18,

Va. 13° 00' East.

Ascend.

7.20 Top of Ridge, bears E. 9th W. and descend.

22.75 Head of Wash, Course N. E. and ascend

40.00 Set a sand stone 15 x 12 x 6 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

1 Yellow Pine 16 ins. diam. bears S. 56° E, 88 lks. dist.
marked $\frac{1}{2}$ S. B. T.

1 Yellow Pine 13 ins. diam. bears S. 46° W, 86 lks. dist.
marked $\frac{1}{2}$ S. B. T.

BOOK 1349

Chains.

53.90 Top of Spur, bears $N. 81^{\circ} E.$ and descend.

74.88 Cross Gulch, 30 lks. wide, Course $E.$ and ascend.

80.00 Set a Sand stone $20 \times 19 \times 16$ ins. 15 ins. in
the ground for Cor. to Secs. 7, 12, 13 ^{and} 18, marked
with 4 notch ∞ on S. and 2 notch ∞ on ~~N.~~ edges and
raised a mound of stone. alongside, Pits impracticable.
from which

A Yellow Pine 10 ins. diam. bears $N. 19^{\circ} E.$, 105 lks. dist.
marked T. 9 N., R. 21 E., S., 7 B. T.

A Yellow Pine 16 ins. diam. bears $S. 47^{\circ} W.$, 79 lks. dist.
marked T. 9 N., R. 20 E., S., 13 B. T.

No other trees within limits.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine and Oak.

Undergrowth of same.

Chains.

North on a true line between sections 7th & 12th
Va. 13° 00' East.

Ascend.

22.00 Top of Spur, bears S. 20° E. and descend.

40.00 Set a sand stone 18 x 10 x 8 ins., 12
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

An Oak 6 ins. diam. bears S. 46° W. 68 lbs. dist.
marked $\frac{1}{2}$ S. B. T.

A Yellow Pine 8 ins. diam. bears N. 38° E. 57 lbs. dist.
marked $\frac{1}{2}$ S. B. T.

61.20 Cross Wash, 30 lbs. wide, Course S. E. and ascend.

78.00 Top of Ridge, bears S. 30° W. and descend.

80.00 Set a sand stone 30 x 20 x 3 ins. 22 ins. in
the ground for Cor. to Secs. 1, 6, 7th & 12th marked
with 5 notches on S. and 1 notch on W edges and
raised a mound of stone. alongside. Pits impracticable.
from which

An Oak 10 ins. diam. bears S. 55° E. 34 lbs. dist.
marked T. 9H, R. 21E, S. 7 B. T.

An Oak 8 ins. diam. bears S. 68° W. 12 lbs. dist.
marked T. 9H, R. 20E, S. 12 B. T.

W. B. T. 9 N. R. 21 E. G. & S. R. M.

BOOK 1349

Chains.

A Juniper 5 ins. diam. bears $N. 55^{\circ} W.$, 69 lks. dist.
marked T. 94, R. 20 E. S., 1 B. T.

A Yellow Pine 10 ins. diam. bears $N. 50^{\circ} E.$, 95 lks. dist.
marked T. 94, R. 21 E. S., 6 B. T.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine & Oak.

Undergrowth of same.

North on a true line between sections 1 & 6.

Va. 13⁰⁰' East.

Descend.

13.00 Head of Wash, Course - 70' - and ascend

40.00 Set a sand stone 16 x 8 x 4 ins., 11
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 $N. 70^{\circ} E.$, 20 lks. dist.
marked $\frac{1}{2}$ S. B. T.

A Yellow Pine 14 ins. diam. bears $N. 25^{\circ} W.$, 64 lks. dist.
marked $\frac{1}{2}$ S. B. T.

W. B. T. 9 N. R. 21 E. G. & S. R. M.

BOOK 1349

Chains.

- 78.00 Top of Ridge, bears $N. 20^{\circ} E$ and descend.
- 80.00 Set a sand stone $16 \times 8 \times 6$ ins. // ins. in the ground, for Cor. to Tps. 9 and 10 N., R's 20 and 21 E., marked with 6 notches on each edge, and raised a mound of stone. alongside. Pits impracticable.
from which
- A Yellow Pine 10 ins. diam. bears $S. 69^{\circ} W$, 40 lbs. dist.
marked T. 9 N., R. 20 E., S., 1 B. T.
- A Yellow Pine 9 ins. diam. bears $N. 35^{\circ} W$, 9 lbs. dist.
marked T. 10 N., R. 20 E., S., 36 B. T.
- A Juniper 8 ins. diam. bears $N. 57^{\circ} E$, 57 lbs. dist.
marked T. 10 N., R. 21 E., S., 31 B. T.
- An Oak 6 ins. diam. bears $S. 40^{\circ} E$, 60 lbs. dist.
marked T. 9 N., R. 21 E., S., 6 B. T.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine, Oak & Juniper.

Undergrowth of same.

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

January 17th 1853.

Chains.

BOOK 1349

Before proceeding further with the exterior of this T^p.
I made a change of 6 minutes in the latitude arc
of my solar compass by adding same to
the reading previously given, and at noon verified and
corrected same by observation on the sun. I also fur-
ther tested instrument by reversing.

I took the latitude and found it to be $34^{\circ} 11'$ North
from the Circle $20^{\circ} 9'$ & $10'$ N. Rd 20 & 21 E
Just established by me
North on a true line between sections 31st & 36.

Va. $13^{\circ} 00'$ East.

Descend.

23.50 Cross Wash, 50 lks. wide, Course $S. 72^{\circ} W$ and ascend.33.00 Top of Spur, bears $S. 69^{\circ} W$ and descend.40.00 Set a sand stone $23 \times 12 \times 9$ 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.

from which

A Yellow Pine 10 ins. diam. bears $S. 70^{\circ} W$, 40 lks. dist.
marked $\frac{1}{4}$ S. B. T.A Yellow Pine 7 ins. diam. bears $S. 55^{\circ} E$, 37 lks. dist.
marked $\frac{1}{4}$ S. B. T.52.70 Cross Gulch, 17 lks. wide, Course $S. 51^{\circ} W$ and ascend.

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BOOK 1349

Chains.

80.00

Set a Sand stone $16 \times 11 \times 7$ ins. 11 ins. in the ground for Cor. to Secs. 25, 30, 31 ~~and 36~~, marked with / notch on S. and 5 notches on W edges and raised a mound of stone. alongside, Pits impracticable. Land mountainous

Soil *3m* rate.Timber of Pine ~~and~~ Oak,

Vegetation, bunchgrass.

North on a true line between sections 25 ~~and~~ 30.

Va. $13^{\circ} 10'$ East.

Ascend.

5.76 Top of Spur, bears E. ~~and~~ W. and descend.

23.00 Head of Wash, Course West and ascend

32.90 Sandstone, $10 \times 8 \times 7$ ft, on line.

40.00 Set a Sand stone $32 \times 10 \times 10$ ins., 24 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. from which
A Yellow Pine 16 ins. diam. bears E, 52 lks. dist. marked $\frac{1}{4}$ S. B. T.

A Yellow Pine 14 ins. diam. bears $S 82^{\circ} W$, 49 lks. dist. marked $\frac{1}{4}$ S. B. T.

BOOK 1349

Chains.

48.00 Top of Ridge, bears $N. 50^{\circ} W.$ and descend.80.00 Set a sand stone $20 \times 18 \times 9$ ins. 15 ins. in the ground for Cor. to Secs. 19, 24, 25 $N. 30$, marked with 2 notches on S. and 4 notches on N 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.

from which

A White Oak 5 ins. diam. bears $N. 15^{\circ} W.$, 83 lks. dist. marked T. 10 N., R. 20 E., S., 24 B. T.A White Oak 8 ins. diam. bears $S. 62^{\circ} E.$, 90 lks. dist. marked T. 10 N., R. 21 E., S., 30 B. T.A Yellow Pine 14 ins. diam. bears $N. 76^{\circ} E.$, 54 lks. dist. marked T. 10 N., R. 21 E., S., 19 B. T.A Yellow Pine 9 ins. diam. bears $S. 61^{\circ} W.$, 98 lks. dist. marked T. 10 N., R. 20 E., S., 20 B. T.

Land mountainous

Soil 3^{rd} rate,

Heavy timber of Pine and Oak,

Undergrowth of same.

W.B.T. 10 N. R. 21 E. G. & S. R. M.

BOOK 1349

Chains.

North on a true line between sections 19th & 24.

Va. 13° 00' East.

Descend.

25.75 Cross Wash, 6 lks. wide, Course N 26° E and ascend.

40.00 Set a sand stone 24 x 12 x 8 ins., 18 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.

from which

A Yellow Pine 24 ins. diam. bears N. 77° W., 56 lks. dist. marked $\frac{1}{4}$ S. B. T.An Oak 22 ins. diam. bears N. 38° E., 77 lks. dist. marked $\frac{1}{4}$ S. B. T.80.00 Set a sand stone 17 x 10 x 10 ins. 14 ins. in the ground for Cor. to Secs. 13, 18, 19th & 24, marked with 3 notches on S. and 3 notches on N. edges and raised a mound of stone. alongside. Pits impracticable. from which

A Yellow Pine 9 ins. diam. bears N. 42° E., 64 lks. dist. marked T. 10N, R. 21E, S., 18 B. T.

A Yellow Pine 13 ins. diam. bears S. 52° E., 58 lks. dist. marked T. 10N, R. 21E, S., 19 B. T.

Chains.

A Yellow Pine 10 ins. diam. bears $S. 73^{\circ} W. 104$ lks. dist.
marked T. 10 N., R. 20 E., S., 24 B. T.

A Yellow Pine 12 ins. diam. bears $N. 47^{\circ} W. 61$ lks. dist.
marked T. 10 N., R. 20 E., S., 13 B. T.

Land mountainous

Soil B^m rate,

Heavy timber of Pine and Oak.

Undergrowth of same.

North on a true line between sections $13^m W. 14$.

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

Ascend.

5.00 Top of Spur, bears $N. 24^{\circ} E.$, and descend.

15.35 Cross Road, bears, $N. 20^{\circ} E.$

17.50 Cross Wash, 12 lks. wide, Course $E.$ and ascend.

36.55 Cross Wash, 7 lks. wide, Course $S E.$

40.00 Set a sand stone $26 \times 14 \times 5$ ins. $\sqrt{19}$
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.

from which

A Yellow Pine 11 ins. diam. bears $S. 70^{\circ} E.$ 47 lks. dist.

BOOK 1349

Chains.

marked $\frac{1}{4}$ S. B. T.

A Yellow Pine 18 ins. diam. bears S. 57° W, 86 lbs. dist.

marked $\frac{1}{4}$ S. B. T.

80.00

Set a sand stone 17 x 14 x 9 ins. // ins. in
the ground for Cor. to Secs. 7, 12, 18th & 18th marked
with 4 notches on S. and 2 notches on ~~N~~ edges and
raised a mound of stone. alongside. Pits impracticable.
from which

A Yellow Pine 7 ins. diam. bears N. 54° E, 115 lbs. dist.

marked T. 10 N., R. 21 E., S., 7 B. T.

A Yellow Pine 12 ins. diam. bears S. 75° E, 70 lbs. dist.

marked T. 10 N., R. 21 E., S., 18 B. T.

A Yellow Pine 7 ins. diam. bears N. 27° W, 57 lbs. dist.

marked T. 10 N., R. 20 E., S., 17 B. T.

A Juniper 10 ins. diam. bears S. 57° W, 49 lbs. dist.

marked T. 10 N., R. 20 E., S., 13 B. T.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine, Oak & Juniper.

Undergrowth of same.

Chains.

North on a true line between sections 7th and 12.
 Va. 130 30' East.

Ascend.

15.00 Top of Spur, bears E. 20° W. and descend.

40.00 Set a sand stone 21 x 10 x 7 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. from which

A Juniper 10 ins. diam. bears $S. 46^{\circ} E.$, 74 lks. dist.
 marked $\frac{1}{4}$ S. B. T.

An Oak 9 ins. diam. bears $N. 87^{\circ} W.$, 98 lks. dist.
 marked $\frac{1}{4}$ S. B. T.

46.00 Foot of hill, bears N.W. and descends gradually.

60.00 Leave Timber, Bears. N.W. and 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, 6, 7th and 12,
 marked T. 10 N., S. 6, on N. E., R. 21 E., S. 7
 on S. E., S. 12 on S. W. and S. 1 on N. W. face,
 with 5 notches on S. and 1 notch on N. edges;
 dug pits, 18 x 18 x 12 ins. in each Sec., $5\frac{1}{2}$ ft. dist.,
 and raised a mound of earth 2 ft. high, $4\frac{1}{2}$ ft. base
 around post.
 Land mountainous

Soil 3rd rate,

Heavy timber of Pine and Oak.

Undergrowth of *oakes*

W. B. T. 10 N. R. 21 E. G. & S. R. M.

BOOK 1349

Chains.

North on a true line between sections 1st & 6.Va. $13^{\circ} 00'$ East.

Descend.

29.18 Cross Road, bears E. $\frac{3}{4}$ W.

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.

65.30 Cross Wash, 8 lks. wide, Course E. and ascend.

75.91 Foot of hill, bears N. 85° W. and ascend.

80.00 Set a post, $4\frac{1}{2}$ ft. long, 4 ins. square, with marked
stone 12 ins. in the ground, for Cor: to Tps. 10
and 11 N., R's 20 and 21 E marked T, 11 W S. 31
on N. E. R. 21 E. S: 6 on S. E. T. 10 W S. 1 on S,
W, and R, 20 E, S, 36 on N. W, faces, with 6 notches
on each edge, dug, pits 24 x 18 x 12 ins., lengthwise on
each line, N, S, E, and W, of post, 6 ft, dist, and
raised a mound of earth $2\frac{1}{2}$ ft. high, 5 ft, base
around post,

from which

A Yellow Pine 7 ins. diam. bears N. 65° E, 42 lks. dist.

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Chains.

marked T. 11 N., R. 21 E., S. 31 B. T.

1 Yellow Pine 6 ins. diam. bears N. 20 W., 63 lbs. dist.

marked T. 11 N., R. 20 E., S., 36 B. T.

1 Juniper 8 ins. diam. bears S. 35 W., 100 lbs. dist.

marked T. 10 N., R. 20 E., S., 1 B. T.

No other trees within limits.

Land mountainous

Soil good rate.

Timber of Pine, Oak and Juniper.

Vegetation, bunchgrass.

January 20th 1883.

For final notes
see book No. 19.

BOOK 1849

U. S. Surveyor General's Office,

Tucson, Arizona, June 17. 1884.

The foregoing Field Notes of the Survey of the

5th Auxiliary Guide Meridian
Along West Boundary's of
Townships 9 & 10 North
Range 21 East

Of the Gila and Salt River Base and Meridian, Arizona, execu-
ted by O. D. Wheeler,

Deputy Surveyor, under his contract of the 17th

day of July, 1884, having been
critically-examined and the necessary corrections and explana-

tions made, the said Field Notes and the surveys they describe
are hereby approved

Royce Johnson
Surveyor General.