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BOOK 1718

4-671

FIELD NOTES

GENERAL LAND OFFICE.

1st Guide meridian West
thru Township 25 North.

1718

BOOK 1718

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1st Grade M. M. First

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16	T 25 A	
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14	R. 4 W.	
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ges 2 + 3 Blank 1718
BOOK 1718

Field Notes
of the survey of the
First Guide Meridian West
through
Township No. 25 North
of the
Gila and Salt River base and Meridian
in the
Territory of Arizona
as surveyed by
Francis W. Survey
U. S. Deputy Surveyor
Charles E. Perkins
Compassman & U. S. Deputy Surveyor
under his contract No. 31,
dated June 21, 1893.

Survey commenced April 25, 1894
Survey completed April 26, 1894

First Guide meridian

chains Survey commenced April
26 1894 with a N & S E.
Survey solar transit at
~~at 8h 35m a.m. local 9 a.m. H~~
~~35° 28' m lat arc, 10° 29'~~
~~sec arc, and determine a~~
~~true meridian with the~~
~~solar, at the standard~~
cor. to Tps. 25 N. R. 4 and
5 W. heretofore described
in latitude $35^{\circ} 28'$ N, longi-
tude $112^{\circ} 50'$ W. at 8h 35m
P.M. local mean time, I
take an observation on
Polaris in accordance with
instructions in the Manual
and find the magnetic
bearing of the star to be
N. $17^{\circ} 46'$ W. I drive a

West

through Tp 25 North

chains on the line thus found
5 chs. north of the corner.

Astronomical time by watch
which is also local mean time

April 25th 8^h 35^m P.M.

Saturnal time U.C. Polaris.

Table (1) apr. 10th 20^h 39.40'

Reduction 10 days

$34.98 \times 10 = 39.30$, Subtract 35.37'
28^h 04.03'

Err. & U.C. Polaris Apr 25,

Which taken from time of
observation leaves hour
angle of Polaris 9^h 31.0'

Azimuth of Polaris for
Lat. 35° 28' N. table (2) 0.55° W

North end of needle. 17.46 E

The difference is the variation 16° 51' E
I lay off the azimuth to the

East and driv a post in
the true meridian then
determined 5.00 chains
north of corner.

April 26, 1894.

April 26, 1894 at 7 a.m I take
the magnetic bearing of
the line established last
night and find it to be
 $N. 17^{\circ} 48' W.$ and the variation
 $16^{\circ} 5' E.$ The mean variation
is $16^{\circ} 0' E.$



From the Standard
con atom derived.
I run.

North 27 sec. 31 $\frac{9}{16}$ ft. 86

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through Tp. 25 North (cont'd)

chains.

Var. $16^{\circ} 5' E$

over mountainous land.

Descend 200 feet.

23.00 Foot of descent, thence over rolling land.

40.00 Set a malpais stone 22×16
 $\times 17$ ins. 16 ins in the
 ground for 1/4 sec. car
 marked 1/4 on W. face
 and raised a mound of
 stone $1\frac{1}{2}$ ft. high, 2 ft.
 base, alongside. Pits im-
 practicable

71.00 Enter scattering cedar.

80.00 Set a malpais stone $30 \times 20 \times 14$
 ins. 22 ins in the ground
 for car. to secs. 25, 30, 31 and
 36, marked with 5 notches on
 N. and 1 notch on S. edges,

Fruit Guide meridian West

chains and raised a masonry of stone $1\frac{1}{2}$ ft high, 2 ft. base, alongside, from which

a cedar 26 ins. diam. has
 $\beta. 38^{\circ} 11' E.$, 115 lbs. dist., marked
T. 25 N., R. 4 W. S. 31 B.T.

a cedar 15 ins. diam. has
 $\beta. 5^{\circ} 07' W.$, 98 lbs. dist.,
marked T. 25 N. R. 5 W. S. 36 B.T.

a cedar 6 ins. diam. has
N. $68^{\circ} 15' W.$, 120 lbs. dist., marked
T. 25 N. R. 5 W. S. 25 B.T.

No other trees within limits.
Land mountainous and rolling,
but, rocky, 4th rate.

No timber.

mountainous land, 23 chs.

through Sp. 25 North (continued)

chains. North lat sec 25 and 30.

Var. 10° 51' E.

at this point the variation decreases on account of local attraction.

over rolling land.

31.00 ascend 10 feet.

32.00 Top of ascent. Enter dense cedar and piñon brush

40.00 a malpais rock in place
4x3x2 ft. above ground,
which I mark with a
cross (+) at exact cor. point
and $\frac{1}{4}$ on W. face, for $\frac{1}{4}$
sec. cor., and raised a
mound of stone $1\frac{1}{2}$ ft high,
2 ft. base, alongside,
from which
a cedar 6 ins diam. bro.

Fruit Guide meridian West

chains N. $38^{\circ} 05' E.$ 62 lbs dist.
marked $1/4$ S. B.T.
a cedar 10 ins. diam. br
N. $87^{\circ} 11' W.$ 27 lbs dist. mark-
ed $1/4$ S. B.T.

63.00 Leave dense cedar and
pinon brush, enter
scattering cedar.
Descend 85 feet.

80.00 Set a malpais stone 20 x
16 x 11 ins. 15 ins. in the
ground for cor to recs.
19, 24, 25 and 30, marked
with 4 notches on N. and
2 notches on S. edges, and
raised a mound of stone
 $1\frac{1}{2}$ ft high, 2 ft. base,
alongside, from which
a cedar 21 ins. diam. brs.

through Tp. 25 North (continued)

diam. $3.55^{\circ} 04'E.$ 142 lbs dist.,
marked T. 25 N. R. 4 W. S. 30 B.T.
a cedar 6 ins. diam. lies
N. $41^{\circ} 31'$ W. 228 lbs. dist. marked
T. 25 N. R. 5 W. S. 24 B.T.

No other trees within limits.

Land, rolling.

Soil, rocky, & tr. slate.

No timber.

Dense cedar & pinon brush, 31 chs.

At this cor. I set off $13^{\circ} 23' N.$
on the decl. arc, and at
11 h. 57 m a.m. l.m.t. observe
the Sun on the meridian;
the resulting latitude is
 $35^{\circ} 32' N.$; the true latitude
nearly.

First Grade meridian West

chains North bet sec. 19 and 24.

Var. $16^{\circ} 50' E.$

over rolling land.

Descend 40 feet

33.00 Foot of descent; small
ramie, course E.

40.00 bet a malpais stone 16 x
10 x 8 ins. 11 ins. in the
ground for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ on w. face,
and raised a mound of
stones $\frac{1}{2}$ ft. high, 2 ft.
base, alongside, from
which

a cedar 20 ins. diam. has
 $\frac{1}{2} 45^{\circ} 20' E.$ 15 eks. dist., marked
 $\frac{1}{4} 6. B.T.$

a cedar 24 ins. diam. has
 $6.50^{\circ} 15' W.$ 12 eks. dist.

through Tp. 25 North (contd)

chains. marked 1/4 S. B.T.

45.00 ascend 30 feet

51.00 top of ascent.

50.00 set a mafais stone 162.2x

10 ins. " ins. in the ground
far cor. to sec. 13, 18, 19 and

24, marked with 3 notches
on N. and S. edges, and
raised a mound of stone

1 1/2 ft. high, 2 ft. base,

alongside, from which
a cedar 20 ins. diam.

brs N. $13^{\circ} 17'$ E. 64 lbs dist.

marked T. 25 N. R. 4 W. S. 18 B.T.

a cedar 6 ins diam. brs.

S. $88^{\circ} 15'$ E. 78 lbs. dist.

marked T. 25 N. R. 4 W. S. 19 B.T.

a cedar 14 ins. diam. brs

S. $77^{\circ} 01'$ W. 112 lbs. dist.

Fruit Grove meridian West

chain marked T. 25 N.R. 5 W. S. 24 B.T.

a cedar 17 ins. diam. brs
N. 12° 31' W. 227 l.h.o. dist,

marked T. 25 N.R. 5 W. S. 13 B.T.

Land rolling.

Bare, rocky, & $\frac{1}{4}$ rate.

Timber, scattering cedar.

North bet. secs 13 and 18.

Var. $16^{\circ} 48' E.$

over broken land.

10.00 Descent 150 feet.

21.00 Foot of descent

Ravine, 10 ft. deep, course S.E.

ascend 80 ft.

22.00 Top of ascent

Descent 100 feet

40.00 Set a mahnais stone 12 x

10 x 9 ins. 8 ins. in the

through Sp. 25 North (cont'd)

chains ground for $\frac{1}{4}$ sec. car. marked
 $\frac{1}{4}$ on W. face and raised
a mound of stone $1\frac{1}{2}$ ft high,
2 ft. base, alongside;
from which

a cedar 6 ins diam. tree.

S. $88^{\circ} 15'$ E. 31 lbs. dist marked
 $\frac{1}{4}$ S. B.T.

a cedar 8 ins diam. tree
S. $79^{\circ} 51'$ W. 22 lbs. dist.
marked $\frac{1}{4}$ S. B.T.

42.00 Foot of descent. Ravine, 2
ft. deep, course S.E.
ascent 150 feet.

59.00 Top of ascent, ridge, course
W. Thence over rolling
land.

80.00 Set a malpais stone $1\frac{1}{2}$ x
 $\frac{1}{2}$ x 8 ins. 9 ins. in the

First Guide meridian West

chains around for car. to see
 7, 12, 13 and 18, marked
 with 2 notches on N. and
 4 notches on S. edges, and
 raised a mound of stone
 $1\frac{1}{2}$ ft. high, 2 ft. base,
 alongside. Pits impracticable.

Land broken and rolling
 soil, rocky, & rate.
 Timber, scattering cedar.

North bet. secs. 7 and 12-
 Var. $17^{\circ} 0' E$

at this point the variation
 increased on account of
 local attraction.

1. 08 Foot of almost perpen-
 dicular rock wall, 160

through Sp. 25 North (contd)

chains ft. high course E. and W.

2.00 Top of wall.

Thence over gently rolling mesa.

40.00 A malpais rock in place

$2 \times 2 \times 4$ ft. above ground,
which I mark $\frac{1}{4}$ sec. car.
with a cross (+) at exact
car. point and $\frac{1}{4}$ on W. face
and raised a mound of
stone $1\frac{1}{2}$ ft. high, 2 ft.
face, alongside. Pits
impracticable.

80.00 Set a malpais stone $18 \times$
 10×8 ins. 12 ins. in the
ground for car to secs
1, 6, 7 and 12, marked with
1 notch on N. and 5 notches
on S. edges, and raised a
mound of stone $1\frac{1}{2}$ ft.

First Guide Meridian West

chains high, 2 ft. base, alongside.
 Paths impracticable
 Land, broken and rolling.
 Soil, rocky, & brittle.
 No timber

North bet. sec. 1 and 6.

Var. $15^{\circ} 03' E.$

Over mountainous land.

ascent 150 feet

20.00 Top of butte

Descent 200 feet.

33.00 Foot of descent.

ascend 60 feet.

40.00 Set a malpais stone 16x
 14x 10 ins. 11 ins. in the
 ground for $\frac{1}{4}$ sec. cor.
 marked $\frac{1}{4}$ on W. face,
 and raised a mound of

through 26 25 North (contd)

clams stone $1\frac{1}{2}$ ft. high, 2 ft.
base, alongside. Pits
impracticable.

41.00 Top of ascent.
Descend 40 feet.

43.00 Foot of descent.
Thence over rolling land.

80.00 Set a malpais stone 30 x
20 x 18 ins. 22 ins. in the
ground far ear. to 1ps.
25 and 26 N. Rs. 4 and
5 W. marked with 6
notches on each edge,
and raised a mound of
stone $1\frac{1}{2}$ ft. high, 2 ft.
base, alongside. Pits
impracticable.

Land, mountainous \rightarrow rolling.
Soil, rocky, 4th rate.

First Guide meridian West

chains. no timber.

April 25, 1894.

General Description.

The township on the West is broken and mountainous, but contains good grazing land.

The township on the East is broken and cut by deep canons, covered with dense brush and some good grass.

There are a few "tanks" of water in cataract creek.

Charles E. Perkins

Compass man ^{and}
U.S. Deputy Surveyor

U. S. Surveyor-General's Office,

TUCSON, A. T., July 13 1895

The foregoing Field Notes of the Surveys of
the 1st Guide meridian
West thro': Sp: 25 North

Gila and Salt River Meridian
in Arizona executed by
F. W. Dury

U. S. Deputy Surveyor, under his contract dated

June 21st 1893.

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

L. M. Manning

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