

Book

No. 1252

Refracting

FIELD NOTES BOOK 1252

1252

OF
Boundary line between
Arizona and New Mexico
by C. B. Fox, 18-20-21-22-17, R. 31 &
the S. E. of Arizona

BY
R. Fitzgerald Deputy Surveyor,

under his contract of *July 14* 188 *2*
Survey commenced *Nov. 9* 188 *2*
Survey completed *Nov. 11* 188 *2*

Printed by 188
Bound for Washington by 188
Bound for Register by 188

No. 1252

BOOK 1252



Retracing Boundary line
 Ariz & New Mexico
 Along

Page

East Bdy T 19 N R 31 E	1
" " " 20 N " 31 E	6
" " " 21 N " 31 E	12
" " " 22 N " 31 E	18

11 1 6		12 3 6
12 10 7		12 2 7
13 9 19	T 20 N	13 2 18
24 8 19		24 2 19
25 7 30		25 9 30
36 6 31		36 18 31
1 5 6		1 17 6
12 4 7		12 16 7
13 3 18	T 21 N	13 15 18
24 3 19		24 14 19
25 2 30	T 19 N	25 13 30
36 1 31		36 12 31

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

Before commencing the retracing
of this Boundary line, I made
a change of 10 minutes in the
latitude arc of solar compass,
by subtracting same from the
reading previously given and
at noon verified and corrected
same by observation on the
sun. I also further tested
instrument by reversing.
Took the latitude and found
it to be $34^{\circ}58' N.$

Retracing of Boundary line bet. Arizona & New Mexico.

W. R. Fitzgerald, Nov. 9, 1882.

Chain. Begin the retracing of this Boundary line, at the closing cor. to Tpo. 18-19 N. R. 31 E., which is a post, 4 in. square,

with marked stone, set firmly in the ground and marked C. C. R. 31 E. on N.

T. 19 N. S. 34 on N. and

T. 18 N. S. 3 on S. faces, with 6 notches on N. S. and N. faces, pits, 24 x 18 x

12 in. crosswise on each line N. S. & N. of post, 6 ft. dist., with mound of earth, 2 1/2 ft. high, 5 ft. base around post.

Thence North, on a random line retracing boundary line between Arizona and New Mexico,

Ta. 14° 15' E.

57.54 To a point 5 lbs. East of 138 M.

Corner, which is a post, 5 ft. long, 5 in. dia., set firmly in the ground and marked 138 M. on N.

Boundary line between Arizona & New Mexico.

chains.

Retracing.

A. on N. & N.M. on E. faces,
 pits, 24 x 18 x 12 ins, N. S. E. & W. of post,
 6 ft. dist, with mound of earth
 2 1/2 ft. high, 5 ft. base around post.
 The true course of this line is
 therefore S. 2' E.

From 138th M.P. Turn North on
 a random line along said Boundary,
 Pa. 14' 15' E.

79.89 To a point 9 lks. West of 137 Mile
 Corner, which is a post, 5 ft. long, 6 ins.
 square, set firmly in the ground
 and marked 137 M. on N., A. on
 N. and N.M. on E. faces,
 pits, 24 x 18 x 12 ins, N. S. E. & W. of post,
 6 ft. dist, with mound of earth,
 2 1/2 ft. high, 5 ft. base around post.
 The true course of this is
 therefore S. 4' W.

Boundary line between Arizona & New Mexico.

Chains.

Retracing.

From 137 M.P., Turn North on
a random line along said Boundary,
Ta. $14^{\circ}15' E.$

80.13 Finding no trace of 136th M.P., I con-
tinue North, and at 160.28 cho.,
arrive at a point 11 lks. East of
135th M.P. which is a Sandstone,
14 x 10 x 10 ins. set firmly in the
ground and marked 135 M. on N,
A. on W. and N.M. on E. edges.
The mound being dilapidated, I dig
pits, and rebuild the same making
it 2 1/2 ft. high & 5 ft. base alongside.
Thence S. 2' E., in a true line
along Boundary line.
Ta. $14^{\circ}15' E.$

80.14 Set post, 5 ft. long, 6 ins. square, with
marked stone, 12 ins. in the ground
for 136 Mile Cr., marked 136 M. on
N., A on W. and N.M. on E. faces,
dug pits, 24 x 18 x 12 ins. N. S. E. & W.

Boundary line between Arizona & New Mexico,

chains.

Retracing.

of post, 6 ft. dist, and raised a mound
of earth, 2 1/2 ft. high, 5 ft. bare around
post.

160.28 To 137th M.P.

From 135 M.P., Turn North on
a random line along said Boundary,
Pa. $14^{\circ}15' E.$

80.10 To a point 10 lks. West of 134th Mile
Cor., which is a cedar, *Simdia.*,
marked 134 M. on N., A. on W.
and N.M. on E. faces,
pits, 24 x 18 x 12 ins, N. S. E. W. of tree
6 ft. dist with mound of earth
around tree.

The true course of this mile
is therefore S. 4 W.

Boundary line between Arizona & New Mexico,

chains.

Retracing.

From 134th M.P. Turn North
on a random line along said
Boundary.

Ca. $14^{\circ}15'E$.

79.94 To a point 18 lks. West of 133rd
Mile Cr. which I find in dilap-
idated condition, the post lying
upon the ground and mound
almost obliterated.

Reset the post (which is 5 ft. long
and 6 ins. square, and marked
133 M. on N., A on W. & N. M.

on E. faces) 12 ins. in the ground,
dug pits, $24 \times 18 \times 12$ ins., N. S. E. & W.
of post, 6 ft. dist., and raised a
mound of earth, $2\frac{1}{2}$ ft. high,
5 ft. base around post.

The true course of this mile
is therefore S. 8 N.

Boundary line between Arizona & New Mexico.

Chains.

Retracing.

From 133rd M.P., Iron Mark
on a random line along said Day,
To 14th 15th C.

79.95 To a point 7th M. East of 132nd
Mile Corner which I find in
dilapidated condition; - the post
lying upon the ground, and
mound almost obliterated.
Reset the post which is 5 ft. long
6 in. square, and marked
132 M. on N. & S. on W. and
N. W. on E. faces, 12 in. in the
ground, dug pits, 24 x 18 x 12 in.,
N. S. & W. of post 6 ft. dist, and
raised a mound of earth, 2 1/2 ft.
high, 5 ft. base around post.
The true course of this rule is
therefore S. 3 E.

Boundary line between Arizona & New Mexico.

chains.

Retracing.

From 132nd M.P. Juan Nook
on a random line along said Bay
to. 14° 15' E.

St. 17

To a point 7 lks. East of 131st
Mile corner, which I find in
dilapidated condition - the post,
5 ft. long, 6 ins. square bearing the
marks 131 M. on N., St. on E.,
and N.M. on S. faces, lying
upon the ground and the
mound nearly obliterated.

Reset the post 12 ins. in the ground,
dug pits, 24 x 18 x 12 ins, N. S. E
& N. of post, 6 ft. dist, and
raised a mound of earth, 2 1/2 ft.
high, 5 ft. base around post.
The true course of this mile is
therefore S. 3' E.

Boundary line between Arizona & New Mexico,

airs,

Retracing.

From 131st M.P. Turn North on
a random line along said Boundary,
Ta. 14° 15' E.

1978 To a point 9 lks. East of 130th
Mile Cor., which find in good
condition - as follows: -

A Sandstone, 20 x 16 x 10 ins. set
firmly in the ground, and
marked 130 M. on N, S, on W,
and N. M. on W. edges,
pits, 24 x 18 x 12 ins. N. S. E & W.
of stone, 6 ft. dist and mound
of earth, 2 1/2 ft. high, 5 ft. base
along side.

The true course of this mile
is therefore S. 4° E.

BOOK 1232
Boundary line between Arizona & New Mexico.

ains.

Retracing.

From 130th M.P. Turn North on
a random line along said Boundary
Ta. $14^{\circ} 15' E.$

80.15 To a point 13 lks. East of 129th
Mile Cor., which I find in dilapidated
condition, the post, 7 ft. long, 6 ins.
square, bearing the marks,
129 M. on N., A. on W. and
N. M. on E. faces, lying upon
the ground, and mound almost
obliterated.

Reset the post 15 ins. in the
ground, dug pits, $24 \times 18 \times 12$ ins.
N. S. & W. of post, 6 ft. dist. and
raised a mound of earth, $2\frac{1}{2}$ ft.
high, 5 ft. base around post.
The true course of this mile
is therefore $S. 6^{\circ} E.$

Boundary line between Arizona & New Mexico.

Chains

Retracing,

From 129th M.P. Run North on
a random line along said Boundary.
Ra. $114^{\circ} 15' E$.

80.03 To a point 4^{1/2} kts. West of 128th Mile
Co. which I find in good order,
namely, a cedar, 22 ins. dia.,
marked,

128. M. on N.

A. on W.

N. M. on E. faces,

pits, $18 \times 24 \times 12$ ins. N. S. E. & W.
of tree, 6 ft. dirt, and mound
of earth around tree.

The true course of this mile
is therefore S. 2' W.



Boundary line between Arizona & New Mexico.

Chains

Retracing,

From 128th M.P. Iron North on
a random line along said Boundary.

Va. 14° 15' E.

79.77 To a point 6 blks. East of 127th mile
Corner, which I find in a dilap-
idated condition; the post, 5 ft.
long, 6 in. square, marked
127 M. on N.,

A. on N., and

N. M. on E. faces, is lying upon
the ground, and the mound
nearly obliterated.

I reset the post, 12 ins. in the
ground dug pits, 24 x 18 x 12 ins.
N. S. E. & W. of post, 6 ft. dist, and
raised a mound of earth,
2½ ft. high, 5 ft. base around post.
The true course of this line is
therefore S. 3° W.

Nov. 9, 1882,

Boundary line between Arizona & New Mexico.

Chains.

Retracing.

From 127th M.P., Turn North on
a random line along said Boundary,
Ta. $14^{\circ}18' E$.

79.74 To a point 7 lks. East of 126th
Mile Cr. which find in dilap-
idated condition. post, 5 ft. long

6 ins. square, marked

126 M. on N,

A. on W, and
N.M. on E faces, lying upon
the ground and mound
almost obliterated.

Reset post, 12 ins. in the ground,
dug pits, $24 \times 18 \times 12$ ins, N. S. E. &

W. of post, 6 ft. dist, and raised
a mound of earth, $2\frac{1}{2}$ ft. high,
5 ft. base around post.

The true course of this line is
therefore $S. 3^{\circ} E$.

Boundary line between Virginia & New Mexico

Chains.

Retracing.

From 126th M.P., Iron Nook
 on a random line along said Boundary,
 Pa. $14^{\circ}15' E.$

St. 21 To a point 12 lks. West of 125th
 Mile Cr., which I find in good
 condition as follows: —

A post, 5 ft. long, 6 ins. square,
 set firmly in the ground and
 marked,

125 M. on N.,

A. on W., and

N. M. on E. faces,

pits, 24 x 18 x 12 ins., N. S. E. & W.

of post, 6 ft. dist. and mound
 of earth, 2 1/2 ft. high, 5 ft. base
 around post.

The true course of this line is
 therefore S. 5' W.

Boundary line between Arizona New Mexico

chains.

Retracing.

From 125th M.P. Juan Nathan
a random line along said Boundary.

To. 14° 18' E.

0.39

To a point 12 lks. East of 124th
Mile Cr., which I find in a
dilapidated condition - the post,
5 ft. long, 6 ins. square, & marked
124 M. on N.

A. on N. and

N. M. on E. faces, is

lying upon the ground and
the mound nearly obliterated.
I reset the post, 12 ins. in the ground,
dug pits, 24 x 18 x 12 ins. N. S. E. & W.
of post, 6 ft. dist, and raised a
mound of earth, 2 1/2 ft. high,
5 ft. base around post.

The true course of this line
is therefore S. 5' E.

BOOK 1252
Boundary line between Arizona & New Mexico,

ains

Retracing. No. 1252

From 124th M.P., Turn North
on a random line along said Boundary,
Ta. 14° 18' E.

9.74 To a point 11 lks. West of 123rd
Mile Cr., which is a Sandstone,
15 x 12 x 12 ins. set firmly in
the ground and marked
123 M. on N.

A. on N. and
N.M. on E. edges,
with small stone mound alongside.
Rebuild the mound, making
it 2 1/2 ft. high and 5 ft. base.
The true course of this line
is therefore S. 5° W.

Boundary line between Arizona & New Mexico,

Chain.

Retracing.

From 123rd Mile corner, run
North on a random line along said Bely.
Ta. $14^{\circ}18' E$.

79.62 To a point 9 lks. East of 122nd
Mile Corner, which is a Sandstone
 $20 \times 12 \times 10$ ins. set firmly in the
ground, and marked

122 M. on N.,

A. on N., and

N.M. on E. edges, with
small stone mound alongside.

Rebuild mound making the
same $2\frac{1}{2}$ ft. high, & 5 ft. base.
The true course of this line
is therefore $S. 4^{\circ} E$.

Boundary line between Arizona & New Mexico,

chains.

Retracing.

From 122nd Mile corner, run North, on a random line along said Boundary.

To a. 14' 18" E.

7990. To a point 8 lks. West of 121st Mile Cor. which is a Sandstone 14x12x10 ins., set firmly in the ground and marked,

121 M. on N.,

A. on W., and

N.M. on E. faces,

with mound alongside which is nearly obliterated.

Idiog pits, 24x18x12 ins., N. S. E. 9 M. of stone, 6 ft. dist, and built mound of earth, 2 1/2 ft. high, 5 ft. base alongside.

The true course of this line is therefore S. 3' N.

Boundary line between Arizona & New Mexico.

Chains.

Retracing.

From 121st Mile corner, Run North
on a random line along Boundary line.

To a. $14^{\circ} 12' E.$

St. 96

To a point 7 lks. West of 120th
Mile corner, which is a Sand-
stone, $24 \times 16 \times 12$ ins, set firmly in
the ground and marked

120 m. on N.,

A. on W. and

N. m. on E. edges,

with small earth mound along-
side. I dug pits, $24 \times 18 \times 12$ ins.

N. S. E. & W. of stone, 6 ft. dist
and rebuilt the mound, making
it $2\frac{1}{2}$ ft. high and 5 ft. base.

The true course of this line
is therefore S. $3^{\circ} W.$

Boundary line between Arizona & New Mexico,

Chains,

Retracing,

From 120th Mile corner, run
North, on a random line along said
Boundary.

Ca. 14' 12" E.

- St. 26 To a point 15 lks. West of 119th
Mile Cor. which is a Sandstone
12 x 10 x 10 ins, set firmly in the
ground, and marked
119 M. on N.,
A. on W., and
N.M. on E. edges,
with small stone mound
alongside. Rebuilt the mound
making the same 2 1/2 ft. high
and 5 ft. base.
The true course of this line
is therefore S. 6° W.

Boundary line between Arizona & New Mexico.

Chain.

Retracing.

From 119th Mile Cor. Iron Hook
on a random line along said Boundary,
Fa. 14° 12' E.

79.93 To a point 15 lks. West of 118th
Mile Cor. which is a Limestone
18 x 10 x 8 ins., set firmly in the
ground, and marked
118 m. on N.,
A. on W. and
N. m. on E. edges,
with pits, N. S. E. & W. of stone
6 ft. dist. and small mound
of earth along side.

Reduce the pits, and rebuild
the mound making the same
2 1/2 ft. high, and 5 ft. base.
The true course of this line
is therefore S. 6° W.

Nov. 10, 1882,

Boundary line bet. Arizona & New Mexico

Chains

Retracing

From 118th Mile Cr., Turn North
on a random line along said
Boundary.

Ca. 14° 12' E.

79.52 To a point 20 lks. West of 117th
Mile Cr. which is a Sandstone,
20 x 16 x 5 ins, set firmly in the
ground and marked

117 M. on N.,

A. on W., and

N.M. on E. edges,

with small stone mound
alongside.

Enlarged the mound ma-
king the same, 2 1/2 ft. high
and 5 ft. base.

The true course of this line
is therefore S. 9° W.

Boundary line bet. Arizona and New Mexico.

Chains.

Retracing.

From 114th Mile corner, Turn
North on a random line along
said Boundary.

To a. 14° 12' E.

- St. 33 To a point 8 lks. West of 116th
Mile Cor., which is a Sandstone
20 x 15 x 10 ins, set firmly in
the ground, and marked,
116 m. on N.,
A. on N. and
N.M. on E. edges,
with small stone mound
alongside. Subuilt mound
making the same 2 1/2 ft. high
and 5 ft. base.
The true course of this line
is therefore S. 3° W.

Boundary line between Arizona & New Mexico.

chains

Retracing.

From 116 Mile Cor. Iron North on
a random line along said Boundary,

Pa. $14^{\circ}12' E$,

o. 15 To a point 30 lks. West of 115th
Mile Cor., which is a Sandstone,
20x18x16 ins. set firmly in the
ground and marked

'115 M. on N.,

it on W. and

N. W. on E. edges,

with small stone mound
alongside. Rebuild the
mound making the same 2 1/2 ft.
high and 3 ft. base.

The true course of this line
is therefore S. $13^{\circ} W$.

N.R. Fitzgerald, Nov. 11, 1882.

For final notes see
book 18.

U. S. Surveyor General's Office,

TUCSON, ARIZONA, May 17, 1883,

The foregoing Field Notes of the ~~Survey~~ of the

*Boundary line between Arizona and
New Mexico along East Boundary
of Tps. 19, 20, 21 & 22 N., R. 31 East,*

Of the Gila and Salt River Base and Meridian, Arizona, execu-
ted by W. R. Fitzgerald,

Deputy Surveyor, under his contract of the 17th

day of July, 1883, having been

critically examined and the necessary corrections and explana-
tions made, the said Field Notes and the surveys they describe
are hereby approved.

J. W. Robinson
Surveyor General.