

*See Index*

BOOK 1402

No. 1402

*Retracing +*

# FIELD NOTES

1

1402

The *OF a portion of Exterior* Lines of

Townships *13<sup>4th</sup> 14<sup>th</sup> 15<sup>th</sup>* Range *29<sup>E</sup>*

*G. & S. R. Meridian, Oregon*

BY

*Milton Sauter* Deputy Surveyor,

under his contract of *April 20<sup>th</sup>* 188*2*

Survey commenced *June 7<sup>th</sup>* 188*2*

Survey completed *June 8<sup>th</sup>* 188*2*

Platted by ..... 188

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Copied for Register by ..... 188

BOOK 1402

No. 1402 *comp* ✓  
*M*

~~Index~~

Retracing

West - T. 13 N.; R. 29 E.

1

" - T. 14 N.; R. 29 E.

8

A

T 1471  
R 28E

T 1371  
R 28E

14	5	4	3	2	1
12	7	14	21	28	35
11	7	14	21	28	35
10	20	21	22	23	24
9	20	20	27	26	25
8	32	32	33	34	35
7	5	4	3	2	1
6	7	14	21	28	35
5	7	14	21	28	35
3	20	21	22	23	24
3	20	20	27	26	25
1	32	32	33	34	35

Preliminary Oaths of Assistants.

I, Peter Beck, do solemnly

swear that I will well and truly perform the duties of compass-  
man, according to instructions given me, and to the best of my

skill and ability, in the survey of the <sup>3<sup>rd</sup> Standard N. along S. B. Tps 12, 13, 14 + 15 N. R 29, 30 + 31 E</sup> ~~the retracing of the~~

Boundary line between Arizona and New Mexico along  
E. B. of Tps 12, 13, 14 + 15 N. R 31 E and W. B  
Tps 13 + 14 N. R 29 E and the Extensions of Tps  
11, 12, 13, 14 + 15 N. R 29 E + Tps 12, 13, 14 + 15 N  
R 30 + 31 E + the subdivisions of Tps 12, 13, 14 + 15 N  
Rs 29, 30 + 31 E 4. + 18. 1/2 W.  
Peter Beck, Compassman.

Subscribed and sworn to before me this

2<sup>nd</sup>

day of June, 1882

A. E. Shemaker

U. S. Commissioner, 3d Judicial District,  
Arizona Territory.

We, Thos. J. Ball, Jeff Hysels  
and Michael Finn + Jas. B. Storal,

do solemnly swear that we will well and faithfully execute the

duties of chain carriers; that we will level the chain upon even and uneven ground and plumb the tally pins, either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true length of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the retracing of

the Boundary line between Arizona and New Mexico, along S. B. of Tps 12, 13, 14 & 15 N. R 31 E & N. B. Tps 13 & 14 N. R 29 E and the exterior of Tps 12, 13, 14 & 15 N. R 29 E & Tps 12, 13, 14 & 15 N. R 30 & 31 E & the subdivisions of Tps 12, 13, 14 & 15 N. R 29, 30 & 31 E & S. R. 2nd

Thomas J. Hall, Chainman.

Jeff Hysell, Chainman.

Michall Finn, Chainman.

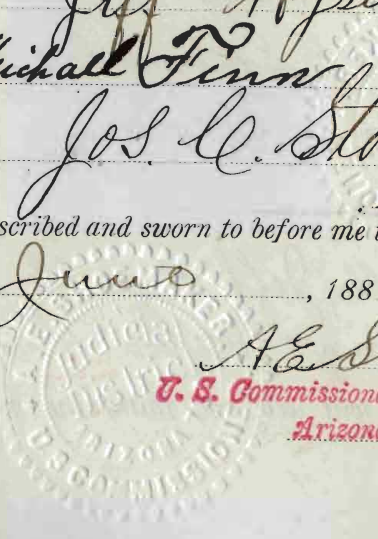
Jos. C. Stoval, Chainman.

Subscribed and sworn to before me this 2nd

day of June, 1882

A. E. Shoemaker

U. S. Commissioner, 3d Judicial District, Arizona Territory.



No. 1402

10

J. B. R. Okner

do solemnly swear that we will well and truly perform the duties of axemen, in the establishment of corners and other duties, ac-

cording to instructions given <sup>me</sup> us, and to the best of <sup>my</sup> skill and ability, in the survey of the <sup>3<sup>rd</sup></sup> Standard T. along S. B. T. 12 N. R. 29 E. 30 + 31 E line between Arizona + New Mexico, along E. B. of Tps 12, 13, 14 + 15 N. R. 31 E and N. B. Tps 13, 14 N. R. 29 E and the sections of Tps 11, 12, 13, 14 + 15 N. R. 29 E + Tps 12, 13, 14 + 15 N. R. 30 + 31 E, and the subdivisions of Tps 12, 13, 14 + 15 N. R. 29, 30 + 31 E G. D. R. W.

B. B. Okner. Axeman.

Axeman.

Subscribed and sworn to before me this

2<sup>nd</sup>

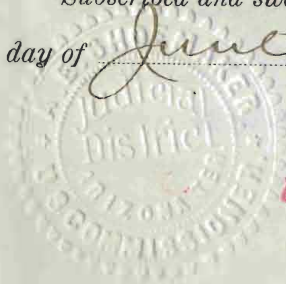
day of

June

, 1882

A. E. Steinhilber

U. S. Commissioner, 3d Judicial District, Arizona Territory.



J. R. Meekins

I, do solemnly swear that I will well and truly perform the duties of flagman,

according to instructions given me and to the best of my skill and ability, in the survey of the tracing of the Boundary line between Arizona and New Mexico along E.B. of Tps 12, 13, 14 + 15 N R. 31 E and W. B. of Tps 13 + 14 N. R. 29 E and W. B. of Tps 13 + 14 N R. 29 E and the Extensions of Tps 11, 12, 13, 14 + 15 N R. 29 E and Tps 12, 13, 14 + 15 N. R. 30 + 31 E + the subdivisions of Tps 12, 13, 14 + 15 N R. 29, 30 + 31 E L. and R. M.

J. R. Meekins, Flagman.

Subscribed and sworn to before me this 2nd

day of June, 1882



A. E. Shoemaker  
U. S. Commissioner, 3rd Judicial District,  
Arizona Territory.

1c

BOOK 1402

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

Before proceeding further with the exteriors of this T<sup>p</sup>.,  
I made a change of 5 minutes in the latitude arc  
of my solar compass by *same*  
the reading previously given, and at noon verified and  
corrected same by observation on the sun. I also fur-  
ther tested instrument by reversing.



17 Retracing  
W. B. T. 13 N., R. 29 E., S. & S. R. 411.

BOOK 1402

Chains

Stancara  
From the Cor. to Tpo. 13 N., R.  
28<sup>th</sup> & 29 E., which is a Limestone  
in a stone mound, I run  
North on a random line, bet. Secs. 31 & 36,  
Descending gradually.

39  
37.40  
44.15  
40.12

Cross Road bears N. 17<sup>th</sup> 1/2<sup>th</sup> 110° 11' East.  
Cross ditch, 6 lks. wide, crosses East & West & ascends gradually.

To a point 10 lks. East of old 1/4  
Sec. Cor, bet. Secs. 31<sup>st</sup> & 36, which is  
a post in earth mound with pits.  
The return course is therefore S. 9° E.

From the 1/4 Sec. Cor, bet. Secs. 31<sup>st</sup> & 36,  
I continue

19.60  
40.00

North on a random line,  
cross Road bears E. & W.  
Find no trace of old Cor.

40.08

To a point 20 lks. East of old 1/4 Sec.  
Cor, bet. Secs. 25<sup>th</sup> & 30, which is a  
post in earth mound with pits.  
I redig pits and rebuild mound to  
be of proper size.

From this Cor. I run  
S. 9° E. on a true line, on W. B. Sec. 30,  
1/4. 14° 10' East.

W. B. T. 13 N., R. 29 E., S. 4 & S. R. M.

## Chains.

I reestablish Cor., by <sup>with marked stone</sup>

40.04 Setting post, 4 ft. long, 4 ins. square ~~—~~

12 ins. in the ground, for Cor. to

Secs. 25, 30, 31 <sup>and</sup> 36, unmarked

T. 13 N., S. 30 on N.E.

R. 29 E., S. 31 on S.E.

R. 28 E., S. 36 on S.W. <sup>and</sup>

S. 25 on N.W. faces, with 1 notch

on S. and 5 notches on N. edges,

dug pits 18 x 18 x 12 ins. in each

Sec., 5 1/2 ft. dist., and raised a

round of earth, 2 ft. high, 4 ft.

base around post.

80.08 To old 14 Sec. Cor., bet. Secs. 31 <sup>and</sup> 36.

W. B. T. 13 N., R. 29 E., T. 4 and S. R. 7M.

Chains.

From the 14 Sec. Cor. bet. Secs.  
28 and 30, I run

North on a random line.

Ascend gradually  $\text{Var. } 14^{\circ} 10' \text{ East.}$

- 40.00 Find no trace of old Cor. to Secs. 19-24-25-30.
- 51.00 Cross Road bears E. & W.
- 72.00 Ascend abruptly
- 78.00 Top of Spur, bears E. & W. & descend.
- 80.00 Find no trace of old 14 Sec. Cor.

bet. Secs. 19 and 24.

120.35 To a point 28 lks. East of old Cor.  
to Secs. 13, 18, 19 and 24, which is  
a Limestone in a stone mound, I  
retraced mound to be of proper  
size.

From this Cor., I run

S. 8° E. on a true line to W. B. of Sec. 19.

$\text{Var. } 14^{\circ} 20' \text{ East.}$

- 40.11 Set a Sandstone  $14 \times 10 \times 9$  ins., 9 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,  
540 ft. dist, and raised a mound

W. B. T. 13 N., R. 29 E., S. 19 S. R. M.

## Chains

of earth  $1\frac{1}{2}$  ft. high,  $3\frac{1}{2}$  ft. base.

80. 23 Set a post 4 ft. long, 4 ins. square, with marked stone, 12 ins. in the ground, for Cor. to

Secs. 19, 24, 25 and 30, marked

T. 13 N., S. 19 and N. E.

R. 29 E., S. 30 on S. E.

R. 28 E., S. 25 on S. W. and

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

on S. and 4 notches on N. edges,

and 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 around post

120. 35 The old 1/4 Sec. Cor., bet. Secs. 25 and 30.

W. B. T. 13 N., R. 29 E., G. and S. B. 111.

BOOK 1402

Chains.

From the Cor. to Secs. 13, 18, 19 & 24,

I run

North on a random line, bet. Secs. 13 & 18.

.32 Descend  
40.00 Cipe Gulch, <sup>Var. 40° 20' East</sup> then West and ascend,  
Is a point 21 lks. East of old 14

Sec. Cor., which is a Sandstone in  
an earth mound. I redig pits and  
rebuild mound to be of proper size.

The return course is therefore S. 18° E.

From the 14 Sec. Cor., I continue North.

79.90 To a point 24 lks. East of old Cor.

to Secs. 7, 12, 13 and 18, which is a  
post in earth mound with pits.  
I redig pits and rebuild mound to  
be of proper size.

The return course is therefore S. 21° E.

W. B. T. 13 N., R. 29 E., T. 4 S. R. 411.

## Chains

North on a random line, bet. Secs. 7 & 12.

Ascend, Var.  $14^{\circ} 05'$  East.

40.15 To a point 24 lks. East of old 7<sup>th</sup> Sec. Cor., bet. Secs. 7<sup>th</sup> and 12, which is a Limestone with earth mound and pits. I redig pits and rebuild mound to be of proper size.

The return course is therefore  $S. 10^{\circ} E.$

52.00 Edge of Ridge, Var.  $S. 8^{\circ} W.$  & descend,

60.00 To a point 19 lks. East of old Cor.

to Secs. 1, 6, 7 and 12, which is a post with earth mound and pits. I redig pits and rebuild mound to be of proper size.

The return course is therefore  $S. 16^{\circ} E.$

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W. B. T. 13 N., R. 29 E., T. 9 S. R. 111.

Chains.

North on a random line bet. Secs 1 &amp; 16.

9.10 Descend gradually. Val.  $14^{\circ} 10'$  East.  
 40.00 Cross Road, bears  $N. 75^{\circ} E.$  and  $S. 75^{\circ} W.$   
 To a point 25 lks. East of old 14

Sec. Cor., which is a post in  
 earth mound with pits. Dig  
 pits and rebuild mound of earth.

The return course is therefore  $S. 21^{\circ} E.$ 

From the 14 Sec. Cor. Continue North.

80.03 To a point 20 lks East of old Cor.  
 to Tps. 13<sup>n</sup> 14<sup>n</sup>, R. 28<sup>W</sup> 29<sup>E</sup>,  
 which is a post in earth mound  
 with pits. Dig pits and  
 rebuild mound to be of proper size.  
 The return course is therefore  $S. 20^{\circ} E.$

W. B. T. 14 W., R. 29 E., S. & S. R. M.

Chains.

Before proceeding with the extension of this T<sub>p</sub>, I made a change of 5 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 further tested instrument by reversing. I took the latitude and found it to be  $34^{\circ} 31'$  North. From the old Cor. to T<sub>p</sub>s. 13<sup>rd</sup> and 14<sup>th</sup>. R. 28<sup>th</sup> and 29 E., from

North on a random line, bet. Secs. 31 & 36.

30.80 Desand gradually, W.  $14^{\circ} 26'$  East.

40.03 Cross Swan, holes E. & W.,  
To a point 21 lks. East of old 14 Sec.

Cor., which is a spot in earth mounded with pits. I redig pits and rebuild mound of earth.

The return course is therefore S. 18 E.

From 14 Sec. Cor., I continue North



W. B. T. 14 N., R. 29 E., G. W. S. R. M.

## Chains.

80.24 To a point 14 lks. East of old Cor. to  
Secs. 25, 30, 31<sup>nd</sup> & 36, which is a  
post in earth mound with pits.  
Tredig pits and rebuild mound  
to be of proper size.  
The return course is therefore S. 16' E.

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North on a random line, bet. Secs. 25<sup>th</sup> & 30.

11.00 Descend gradually <sup>Yard 14<sup>th</sup> 15' East.</sup>  
center valley, <sup>bars E. & W.</sup>

40.27 To a point 26 lks. East of old 14  
Sec. Cor., which is a post in  
earth mound with pits. Tredig  
pits and rebuild mound.  
The return course is therefore S. 22' E.

From the 14 Sec. Cor, continue North.

80.29 To a point 21 lks. East of old Cor. to  
Secs. 19, 24, 25<sup>th</sup> & 30, which is a  
post in earth mound with pits. I  
redig pits and rebuild mound.  
The return course is therefore S. 18' E.

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W. B. T. 14 N., R. 29 E., G. W. S. R. M.

## Chains.

North on a random line, bet. Secs. 19<sup>th</sup> & 24<sup>th</sup>.

Descend, Var. 14° 00' East.

40.00 Unable to find old 74 Sec. Cor.

Set temporary 74 Sec. Cor.

65.00 Cross Wash, follows wide Course E. & ascend,

80.16 In a point 37 lks. E. of old Cor. to

Secs. 13, 18, 19<sup>th</sup> & 24<sup>th</sup>, which was a

post in earth mound and pits. I

redig pits and rebuild mound to be

of proper size.

From this Cor. I run

S. 38° E. on a true line, bet. Secs. 19<sup>th</sup> & 24<sup>th</sup>.

Var. 14° 00' East.

40.08 Set a Sandstone 12 x 8 x 8 in., 8 in. in

the ground for 74 Sec. Cor., marked 14

on W. face, dug pits 18 x 18 x 12 in., N.

and S. of stone, 5<sup>th</sup> ft. dist. and

raised a mound of earth, 1<sup>th</sup> ft.

high, 3<sup>th</sup> ft. base.

80.16 The Cor. to Secs. 19, 24, 20<sup>th</sup> & 30.

June 7<sup>th</sup> 1882.

W. B. T. 14 N., R. 29 E., G. 4th S. R. 111.

Chains.

North between Secs. 13<sup>th</sup> and 18.

Ascend gradually,  $\text{Var. } 14^{\circ} 00'$  East.

40.00 After diligent search, being unable to find old 14 Sec. Cor., I set a post, 3 ft. long, 3 ins. dia., <sup>with marked stone,</sup> 12 ins. in the ground for 14 Sec. Cor., unmarked 14 S. on W. face, dug pits 15 x 15 x 12 ins. N. and S. of post 5 ft. dist., and raised a mound of earth, 1 1/2 ft. high, 3 1/2 ft. base

46.00 <sup>around post</sup> corner Kuan to Fort Ningali from N.E. & S.W.

80.00 After diligent search, being unable to find old Cor. to Secs. 7, 12, 18<sup>th</sup> & 18, I set a post 4 ft. long, 4 ins. square with marked stone, 12 ins. in the ground with marked stone, for Cor. to Secs. 7, 12, 18 & 18, marked T. 14 S., S. 7 on N.E.

R. 29 E., S. 18 on S.E.

R. 28 E., S. 13 on S.W. and

S. 12 on N.W. faces, with 4 notches on S. and 2 notches on N. edges, dug

W. B. T. 14 N., R. 29 E., S. 4 W. S. R. 11.

Chains.

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  
around post.

Land rolling.

Soil 2<sup>nd</sup> rate.

Vegetation of Sagebrush and  
Bunchgrass.

North between Secs. 7 and 12.

Var. 14° 10' East.

Ascend.

40.00 After diligent search, being unable  
to find any trace of old 14 Sec.

Cor, I

set a post, 3 ft. long, <sup>with marker stone,</sup> 3 ins. dia, <sup>plains.</sup>

in the ground, for 14 Sec. Cor,

~~with marker stone~~, marked 14 S. on

W. face, dug pits 18x18x12 ins.

1/4 mi S. of post, 5 1/2 ft. dist, and  
raised a mound of earth, 1 1/2 ft.

W. B. T. 14 N., R. 29 E., T. 9 S. R. 411.

Chains

High, 3 1/2 ft. base around post.

68.25 Cross road, corner N.E. and S.W.

80.00 After diligent search, being unable  
to find old cor. to Secs. 1, 6, 7 & 12, I  
set a post, 4 ft. long, 4 ins. square,  
with marker stone,  
12 ins. in the ground, with marker  
stone for cor. to Secs. 1, 6, 7 & 12, marked  
T. 14 N., S. 6 on N.E.

R. 29 E., S. 7 on S.E.

R. 28 E., S. 12 on S.W. and

S. 1 on N.W. faces, with 5 notches  
on S. and 1 notch on N. edges, dug  
pits 18 x 18 x 12 ins. in each Sec., 5 1/2 ft.  
dist. and raised a mound of  
earth, 2 ft. high, 4 1/2 ft. base  
around post.

Land rolling.

See 2nd rate.

Vegetation of Sagebrush and  
Bunchgrass.

W. B. T. 14 N, R. 29 E, G. & S. R. M.

Chains

North between Secs. 1<sup>st</sup> & 6.

Yr. 14° 10' East.

Ascend.

11.00 Enter timber bears E. and W.

40.00 Set a post, 3 ft. long, 3 ins. dia with marked stone, 12 ins. in the ground, for 14 Sec. Cor., marked 14 S. on W. face, dug pits 18 x 18 x 12 ins.

— N<sup>th</sup> S. 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.

68.00 Top of Ridge, bears N. E. and S. W.

82.00 After diligent search, being unable to find any trace of old Cor. to Tps. 14<sup>th</sup> and 15<sup>th</sup> N, Rs. 28<sup>th</sup> and 29<sup>th</sup> E., I set a post 4 1/2 ft. long, 4 ins. square, with marked stone, 12 ins. in the ground for Cor. to Tps. 14<sup>th</sup> and 15<sup>th</sup> N, Rs. 28<sup>th</sup> and 29<sup>th</sup> E, marked S. 15 N, S. 31 on N. E. R. 29 E, S. 6 on S. E.

W. B. T. 14 N., R. 29 E., T. 1 and S. R. 3.

Chassis

T. 14 N., S. 1 on S. W. and  
R. 28 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 1/2 ft. high, 5 ft. base  
around post.

Land rolling.

Soil 2<sup>nd</sup> rate.

Vegetation of Bunchgrass and  
Sagebrush.

June 8<sup>th</sup> 1882.

BOOK 1402/6  
No. 1402

U. S. Surveyor General's Office,  
Tucson, Arizona, Dec. 20, 1882

<sup>Retracing</sup>  
The foregoing Field Notes of the survey of a portion  
of the Exterior Lines of Tps.  
13 & 14, Range 29 East -

of the Gila and Salt River Base and Meridian, Arizona,  
executed by Milton Santee,  
D. S., under his contract of the 29th day of  
April, 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. W. Robbins  
Surveyor General.