

15-99

*East and West
Boundaries*

T 19 S., R 29 E.

Rockfellow

BOOK 1599

4-671

1599

FIELD NOTES
GENERAL LAND OFFICE.

15-99

Preliminary Oaths of Assistants.

We M. H. O'Connor

and Martin Walsh

solemnly swear that we will well and faithfully execute
 the duties of Chain Carriers; that we will level the chain over
 even and uneven ground, and plumb the tally pins, either by
 kicking or dropping the same; that we will report the true dis-
 tance 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

Boundaries of
Tp. 19 South
Range 9 East
G. S. R. N.

of the principal base and meridian in the Territory of Arizona.

M. H. O'Connor Chainman.

Martin Walsh Chainman.

Subscribed and sworn before me, this 21

day of August 1889

John P. Rockwell
 Notary Public.

of Commission expires

We R. H. Fowler
C. Brady, Fred W. Hyman
do solemnly swear that we will well and truly perform the
the duties of Monumentman
Flagman & Asseman
in the establishment of corners and other duties according to
instructions given us, and to the best of our skill and ability,
in the survey of the Boundaries
T. T. P. 19 South
Range 9 East
60

of the principal base and meridian in the Territory of Arizona.

R. H. Fowler
C. Brady
Fred W. Hyman

Subscribed and sworn to before me this 21
day of August 1899

John A. Peck
Notary Public.

Apr 10 1903

Field Notes
of the survey of the
East and West bound-
eries
of
T. 19 S. R. 29 E of
of the
Gila and Salt River
Base & Meridian
Arizona
as surveyed by
John A. Rockfellow
U. S. Deputy Surveyor
under his contract
No. 54.

Dated June 19 1899.
Survey commenced Aug ²⁰ 1899
Survey completed Aug 25 1899

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BOOK 1599

INDEX.

	┌		
	+		
7	20	12	TIGSR 29 E
	+		
13	19	18	
	+		
24	17	19	
	+		
25	16	30	
	+		
36	14	31	
	└		

	┌		
24	12	19	
	+		
25	10	30	
	+		
36	8	31	
	└		

East Boly
West "

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⁴
East Bdy. T. 19 S. R. 29 E.

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chains

Survey commenced Aug 20, 1899 & executed with a Young & Son Light Mountain Transit. No 6855, with Smiths Solar Attachment. The horizontal limb, Lat. arc and Decl. arc. all reading to single minutes of arc.

The instrument was examined tested on the true meridian at Tucson, found correct and approved by the Surveyor General for Arizona.
June 13, 1899.

East Bdy. T. 19 S. R 29 E.

The cor. Tps. 19 + 20 S.
 Rs 29 + 30 E. is situated
 on a steep hillside
 in timber and dense
 underbrush, not a
 suitable place to take
 observation of Polaris,
 I select a place for
 such observation on
 the parade ground
 of old Camp Rucker
 about 1 mile North
 and 2 miles West
 of said Tp. cor. (Observation
 on Polaris at Eastern
 elongation at $9^{\text{h}} - 27.4^{\text{min}}$
 (mt.))

at 11 AM. I set off
 $12^{\circ} 22'$ on the decl. arc.
 $+ 31^{\circ} 46'$ on the Lat. arc.

6 E. B. dy - T. 19. S.

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+ establish a meridian
by the solar.

At noon with decl. arc
at $12^{\circ} 21\frac{1}{3}'$ S. I find the
lat to be $31^{\circ} - 46'$ which
I had previously used
in establishing meridian
by solar.

At 1:30 P.M. with $12^{\circ} 20'$
S on decl. arc & at 3 P.M.
with $12^{\circ} 19'$ S on decl.
arc. I find that the
meridian indicated
by solar is identical
with that established
at 11 A.M.

At $9^{\text{h}} - 27.4^{\text{min}}$ P.M. l.m.t.
I observe Polaris at
Eastern elongation
as prescribed in manual

R 29.E

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7

4 marked the line thus established.

August 21 at 7 A.M. l.m.t.
I compare this line established by observation of Polaris with that established by solar & find that they differ by $12^{\circ}27'$ which is the course of Polaris line E. of solar line. As this is the angle given in the manual I conclude that my instrument is in good adjustment. Var $12^{\circ}25' E.$

East Bdy.

Aug 21

chains From cor. to Tps. 19720 S.
Rs 29430 east which is
a granite rock on bed
rock, base 18X16 ins.,
top 10X4 ins. 20 ins high
with md. of stones

West 3 ft. base 3 ft high
I run North bet sees
31+36 through dense
brush, var. 12°-32'

9.00

Wash 40 lbs. wide course ^{N.E.}

29.70

" 30 " " " ^{N.W.}

31.50

" 30 " " " ^{S.W.}

37.30

Cotton wood creek 1.25 chs
wide, course W.

40.00

Ascend wooded slope
Set a sand stone rock
18X10X4 ins. 12 ins in the
ground for 1/4 sec. cor.
marked 1/4 on the W.

T 19 S R. 29 E .

- chs. face & raise a mound of stone 2 ft base, 2 ft high W. of cor. Pits impracticable. A juniper 18 ins in diam brs. S. 76 W. 33 lbs dist. marked $\frac{1}{4}$ S. 36 B.S. No other trees near.
- 52.50 Ridge N. N. E. & S. S. W. continue along ridge.
- 69.50 Wash 30 lbs wide course W.
- 74.60 Wash 20 lbs wide course S. W. Ascend steep mountain.
- 80.00 Set a granite rock 16 x 12 x 8 in. 11 ins. in the ground. for cor. to secs. 25-30, 31 & 36. marked with 5 notches on N. & 1 notch on S. edges, with md. of stones 2 $\frac{1}{2}$ ft base 2 ft high on W. of cor.

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East. Body.

chs.

from which,

A white oak 8 in. in diam. brs N. $20\frac{1}{2}^{\circ}$ E 58 lks dist marked T 19 S. R 30 E.

Sec. 30, B. T.

No other trees within limit

Soil 3rd. rate.

Land mountainous & dense brush 80 chs.

Aug 21

North bet ^{Aug 22} secs 25 & 30

27.00

Ascend steep mts.

21.00

divide N.E. & S.W.

39.00

Run along W. slope of divide

40.00

Gulch, 15 lks wide, course N.W.

Set a granite rock 12 X 11 X

17 in. 8 ins. in the ground

marked $\frac{1}{4}$ S. on W. face

& raise a md. of stones

2 ft. base 2 ft high W of cor.

T 19 S. R 29 E. //

chs.
57.00 Same divide course N.W. +
S.E. Step descent.

79.00 As 80chs falls in a wash
Set a sandstone 16x12x8
in 11ins in the ground
marked W.C. on N face. Cor.
to secs. 19, 24, 25, + 30.
with 4 notches on N. + 2
notches on S. edges, md
of stones $2\frac{1}{2}$ ft base 42 ft.
high. W of cor., from which,
a pine 20 ins in diam
brs. N. $32\frac{1}{2}$ W 34 lbs. dist
marked T 19 S. R 29 E.

W.C.
S 25 B. J. N.E.

A pine 9 ins. in diam. brs.
S. 70 E. 64. lbs dist marked

T 19 S. R. 30 E. S. 30^{we.} B. J.

cor. pt. for secs. 19, 24, 25, + 30.

Soil 3 rd rate
mountainous land 80chs.

Aug 22

80.00

East Bay.

- Aug 23 var. 12° 25'
- chs. North bet secs 19 & 24.
- 00.50 Center of wash coal pit.
cañon course N.W. 150 lbs
wide.
- 8.00 Leave mesa, dense brush.
Red Rock wash 100 lb wide
course W.
- 40.00 Set a cement rock 14x8x6
10 ins in ground for $\frac{1}{4}$ sec.
cor. marked $\frac{1}{4}$ on W. &
raise a md. of stones 2
ft base 2 ft high. W of cor.
from which.
- A pine 7 ins. in diam.
brs. N. 54° E. 11 lbs dist.
marked $\frac{1}{4}$ S. 19. B. J.
- 44.85. Left bank white watercreek
 $\frac{1}{2}$ chs. wide, course W.
- 47.35. White water road brs E & W.
- 50.00 Ascend Hill.

T 19 S. R. 29 E. 13

65.00 Cliff of sandstone 20 ft high
brs. E & W.

80.00. Set a sandstone 16 X 8 X 7
ins. 11 ins. in ground
for cor. of secs. 13, 18, 19 & 24
marked with 3 notches
on N & 3 notches on S edges
Pits impracticable
From which

A Juniper 14 ins in diam
brs. N. 49° W 83 lbs. mark-
ed T. 19 S. R. 29 E. Sec. 13 B. T.
No other trees within distance

Land level & mts.

Dense brush & chains.

It being very ^{rough} & mts
no agricultural land to
the North I discontinue
the East Bdy at this pt. & pro-
ceed to survey the West boundary.

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West Bdy.

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late

Aug 24 1899

chs. West Bdy T. 19S R 29 E
 From cor of Tps 19+20 S
 Rs 28+29 E which is
 a

as described by Survey-
 or Gen'l. bet secs 31+36
 I run ^{mountainous land.} N over Var 12-25

3. 15 Okeefes barbed wire
 fence bds N. N. E. & S. S. W.
 30. 00 Wash 10 lbs wide
 course W.

T 19 S. R 29 E

- chs.
40.00 Set a cement rock 14 X 11
X 6 ins 9 ins. in the ground
for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on West
face & raise a md. of stone
2 $\frac{1}{2}$ ft base 2 ft high W of cor.
Divide, course W & E.
- 43.00
- 52.35 Wash 15 lbs wide course^W
Divide, course N & E.
- 64.00
- 80.00 Set a cement rock 15
X 10 X 6 in. 10 ins. in the ground
for cor to secs. 25, 30, 31 & 36,
marked with 1 notch on S
& 5 notches on the N.
edges & raise a md. of
stones 2 ft base & $\frac{1}{2}$ ft
high W of cor. Pits impracticable
A white oak; 9 ins in diam
brs. S 16° E, 44 lbs dist.
marked T. 19 S. R. 29 E. S. 31
B.T.

West Bdy.

- chs A black oak 5 ins. in diam. brs. N. 16° W, 44 lbs dist. marked T 195 R 28 E. S. 25 B. T. Oil 1st + 2nd rate
Mountainous land 80 chs
- North bet. secs. 25 + 30.
- 3.48 Cheefes fence brs ^{Va 12° 25'} E. S E + W of N. W
Leave pasture
- 15.50 Wash 100 lbs wide course W. over flat.
- 40.00 Set a sandstone 15 X 7 X 6 ins. 10 ins in the ground for 1/4 sec. cor. Marked 1/4 on W. face, dig pits 18 X 18 X 12 N + S. of stone 3 ft. dist; + raise a md. of rock + earth 3 1/2 ft base 1 1/2 ft high W of cor.

T 19, S. R. 29 E.

chs.
 0.50 Enter White Water Wash course W.
 5.00 Leave " " " " W.
 Dense oak brush
 Old stone cabin brs W. about
 2 1/2 chs.

26.00 White water road brs N.E. S.W.
 80.00 Set a cement rock 16 X 10 X 5 ins
 11 ins in the ground. for cor. of
 secs. 19, 24, 25, & 30, marked
 2 notches on S & 4 notches
 on N. faces, dig pits 18 X 18 X 12
 in each sec. 5 1/2 ft dist &
 raise a md. of rocks &
 earth 4 ft base, 2 ft high
 W of cor. a black oak
 15 ins in diam. brs N.
 30° E. 73 lks dist. marked

T 19 S. R 29 E S 19 B. T.
 Soil 1st + 2nd rate since
 Aug 24 ^{Aug 25} brush 25
 North bet secs 19 & 24
 ascend flat. Var 12°-25°.

4 in oak 10 in diam marked 9.19 S. R. 28 E. S. 25 B. 7.
 30' W. 131 ft dist
 Oak 10 in diam marked 9.19 S. R. 29 E. S. 30 B. 7. brs. S. 64° E. 108 ft dist.

18

West Bdy.

- Chs. 14.00 Through dense bush
Enter wash
course S.W.
- 20.00 Leave wash.
- 23.00 Enter same wash course W.
- 25.00 Leave " " " W.
- 40.00 Set a cement rock 16x16
x5 ins. 11 ins in the ground
for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$
on W. build md. of stone
2 ft base $1\frac{1}{2}$ ft high W of cor
- 41.00 Ascend slope of rocky point
Oak 4 ins diam, marked $\frac{1}{4}$ S. 24, 73.7. 610 N-35 36' 24" 916' dist.
- 47.00 Leave rocky points
" dense bush
cross flat.
- 60.00 Ascend slope of ridge.
- 80.00 Summit of ridge by E & W.
Set a cement rock 18x18
x10 ins 12 ins in ground
for cor. of secs. 13, 18, 19 + 24, mark
ed 3 notches on N + S. edge
build a md. of stone $2\frac{1}{2}$ ft

T. 19 S. R. 29 E

19

chs.

base, 2 ft. high, W of cor.
 Oak 12 ins diam marked $\frac{1}{4}$ 19 S. R. 29 E
 S. 13 B. Y. brs S. 18° W. 215 lks dist
 Soil 1st + 2nd rate.
 Dense brush 47 chs

North bet secs 13 + 18.

descend slope.

Enter oak flat.

Set a cement rock 18 X 12

X 8 ins. 12 ins. in ground
for $\frac{1}{4}$ sec. cor. marked

$\frac{1}{4}$ on W face build a md
 of stone $2\frac{1}{2}$ ft. base, 2 ft
 high W of cor.

A white oak 5 ins in
 diam brs S. 40° E. 33 lks dist
 marked $\frac{1}{4}$ S. 18. B. T.

Keefe's irrigating ditch
 course S.W, 20 lks. wide.

Ross cotton road brs NE + S.W.

Ascend slope.

Summit brs. E + W.

15.00

40.00

46.30

52.45

55.00

60.00

Oak 8 ins diam marked $\frac{1}{4}$ 8/13 B. Y.
 brs N. 40° 30' E. 44 lks dist.

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 West Bdy.

chs. 64.00	Wash 25 lbs wide course W. ascend.
80.00	Set a cement rock 18x12x10 in 3.12 ins. in the ground. for cor. to sees 7, 12, 13 & 18. Marked 4 notches on S & 2 on N. faces, build a mound of stone 2 1/2 ft. base 2 ft high W of cor. No bearings available Sand. 1st + 2nd rate.

 P. 15
 N

North bet sees 7 & 12.

ascend over mountainous land

6.00	Summit of ridge brs E & W.
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10.00	Road to Ross canon brs S E & N. W.
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20.00	Enter valley.
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24.00	Wash 50 lbs wide brs E & W. ascend
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39.00	Summit of ridge brs E & W.
-------	----------------------------

40.00	Hard cement rock in place 18x12x6 ins.
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T. 19 S. R. 29 E.

above ground marked +
at exact cor. pt. + $\frac{1}{4}$ on W. face
build a md. of stone $2\frac{1}{2}$ ft
base 2 ft high W of cor.

A juniper tree 14 ins. in
diam. brs. N. 35° E. 100 lks dist

Marked $\frac{1}{4}$ S 7 B. T. (approach mts)

46.00

Wash 50 lks wide, course S.W.
asc. mountain

68.00

Summit of rough hill, brs. E + W.

77.00

Gulch 15 lks wide course W.

Ascend very steep rocky
slope of ridge.

80.00

Set a cement rock $16 \times 10 \times 5$
ins. 10 ins in ground for cor
to secs. 1, 6, 7 + 12 marked
5 notches on S + 1 notch
on W faces edges build a
md. of stones 3 ft. base
2 ft high W of cor. No bearings
P.S. info
available. On steep hillside facing S.

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West Bdy.

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Soil 2nd rate
Mountainous land

34 chs.

Aug 25

As there is no agricultural land to the north of this point & East of this point & it is rough and mountainous, I discontinue the line.

Tombstone Ariz.

Dec. 23 1899

John A. Rockwell
U.S. Dep. Surveyor

T. 19 S. R. 29 E.

(Interlocations authorized by
Deputy's letter of Feb. 5, 1900.
dates put in by Deputy

A List of the Names of the Individuals
 employed by *John A. Rockfellow*
 U. S. Deputy Surveyor, to assist in running, meas-
 uring and marking the lines and corners described
 in the foregoing Field Notes of the survey of the
Boundary of
Tp. 19 South
Range 29 East

of the Gila and Salt River Base and Meridian, in
 the Territory of Arizona, showing the respective
 capacities in which they acted.

M. H. O'Connor Chainman.

Martin Walsh Chainman.

Chainman.

Chainman.

Fred W. Payne Axeman.

R. H. Fowler Axeman.

E. Brady Flagman.



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BOOK 1599

Final Oath of Assistants.

We hereby certify that we assisted *John A. Rockefeller* U. S. Deputy Surveyor, in surveying all those parts or portions of the *Boundaries of T. 19 South R. Range 29 East*

of the Gila and Salt River Base and Meridian, in the Territory of Arizona, as are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said Survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established according to the instructions furnished by the United States Surveyor General for Arizona.

M. H. O'Connor Chainman.

Martin Walsh Chainman.

Chainman.

Chainman.

Frederic S. Hyde Axeman.

R. K. Fawley Axeman.

C. Brady Flagman.

Sworn to and subscribed before me, this *15* day of *September*, 189*9*

John A. Rockefeller
Notary Public.

[SEAL.]

My com. expires Apr. 10, 1903

Final Oath of U. S. Deputy Surveyor.

I, John A. Rice
 U. S. Deputy Surveyor, do solemnly swear that in
 pursuance of a contract received from Royal A
Geo. Christ Johnson, United States Surveyor-General for Ari-
 zona, bearing date of the 19th day of
June 1899, I have well, faith-
 fully, and truly, in my own proper person, and in
 strict conformity with the instructions furnished by
 the United States Surveyor-General for Arizona,
 the Manual of Surveying Instructions, and the
 laws of the United States, surveyed all those parts
 or portions of the Boundaries

of Tp. 19 South
Range 29 East

of the Gila and Salt River Base and Meridian, in
 the Territory of Arizona, as are represented in the
 foregoing Field Notes as having been surveyed by
 me and under my direction; and I do further
 solemnly swear that all the corners of said surveys
 have been established and perpetuated in strict
 accordance with the Manual of printed instructions,
 the special instructions of the United States Sur-
 veyor-General for Arizona, and in the specific

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manner described in the field notes, and that the foregoing are the true Field Notes of such survey; and should any fraud be detected I will suffer the penalty of perjury, under the provisions of an act of Congress approved August 8, 1846.

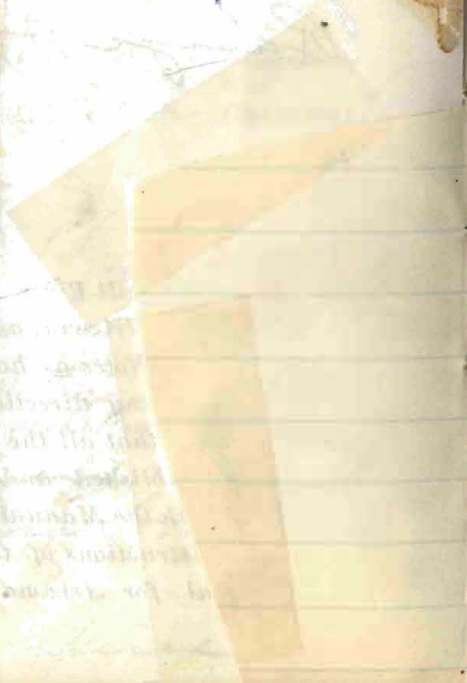
John A. Rockfellow
U. S. Deputy Surveyor.

Sworn to and subscribed before me this 23rd

day of *December*, 1899.

A. H. Emanuel
Clerk

BOOK 1599



BOOK 1599
APPROVAL.

OFFICE OF UNITED STATES SURVEYOR GENERAL,
Tucson, Arizona, *April 5th* 1900.

The foregoing field notes of the survey
of *the East and West Boundaries of*
T. 19. S. R. 29. E.

Gila & Salt River Meridian
executed by *J. A. Rockfellow*
under his contract No. 54, dated *4/19 - 1899*,
having been critically examined, and the
necessary corrections and explanations
made, the said field notes, and the survey
they describe, are hereby approved.

George Christ
U. S. Surveyor General for Arizona