

W. Boundary of T. 12 S. R. 24 E.

4.

Ret. of S. Bdy. of 16 S. R. 24 E.

24.

Cont. 82. Rockfellow.

15-36

1536

BOOK 1536

4-671



FIELD NOTES
GENERAL LAND OFFICE.

BOOK 1536

We, F. C. Simpson, and
 G. E. Austin, do solemnly
 swear that we will well and
 faithfully execute the duties of
 Chain Carriers; that we will
 level the chain upon even and
 unswollen ground, and pull on the
 Kelly pins, either by sticking or
 dropping the same; that we will
 report the true distance to all
 notable objects, and the true
 lengths 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 boundary
 lines of Sp. 17 S. R. 24 E.
 of the Gila and Salt River
 Base and Meridian in the
 Territory of Arizona.

F. C. Simpson Chairman
 G. E. Austin Chairman
 Sworn and subscribed to
 before me this 27th day of
 Jan. A. D. 1902
 J. H. A. Rockwell
 Notary Public

we, Wm. McKay, James Hardin,^A
and H. E. Avery, do solemnly
swear that we will well and
truly perform the duties of Tilagman,
Woundsman & Axeman 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 boundary lines of T. P. S.
P. 24 E. of the Gila and Salt
River Base and Meridian, in
the Territory of Arizona.

William McKay Tilagman
James Hardin Woundsman
William Avery Axeman

Subscribed
to before me this 27
day of Jan A D 1902
John A. Rockwell
Notary Public

MY COMMISSION EXPIRES APR. 16, 1905

BOOK 1536 1A

1B a list of the individuals
employed by John A. Rockefeller,
U. S. Dep. Surveyor, to assist
in running, measuring and
marking the lines and corners
described in the foregoing
field notes of the survey of the
South, West and North bound-
aries of T^p. 17 S. R. 24 E, G. & S. R.
B. & M., in the Territory of Arizona.

J. E. Simpson, Chairman

G. E. Austin, Chairman

William McKay, Flagman

James Hardin, Measurer

William Sweeney, Axeman

1B

BOOK 1536

For Deputy's final
oath see subdivisions
T^p 17 S R 24 E.

We hereby certify that we assisted John A. Rockfellow, U. S. Def. Surveyor, in surveying all those parts or portions of the South, West and North Boundaries of T^p. 17 S., R 24 E. G. & S. R. B. & M. in the Territory of Arizona, which 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 U. S. Surveyor General for Arizona.

- F. C. Simpson
- A. E. Austin
- William M. Kay
- Daniel Hardin
- William Sweeney

Chairman
 Chairman
 T. L. Agnew
 Monumentman
 Assessor

BOOK 1536

Witness and subscribed to before me this 8th day of Feb 1907
John A. Rockfellow
Notary Public

1536

1D

BOOK 1536

Field Notes
of the survey of the
W. Boundary of
Twp 17 S. Range 24 E. and
Retracement S. bdy
Twp 16 S. Range 24 E.
Gila and Salt-River
Base and Meridian
in the
Territory of Arizona
as surveyed by
John A. Rockfellow
U. S. Deputy Surveyor

Under his contract No. 82
Dated May 23, 1901

Survey commenced Jan. 27, 1902
Survey completed Feb. 8, 1902

2

Survey of W. B. Dy

Names of Assistants

F. E. Simpson Chairman

G. E. Austin Chairman

Wm McKay Flagman

James Hardin Moundman

Wm Swiney Axeman.

West Boundary

Twp. 17 S. R. 24 E.

BOOK 1536

21
19
18
16
14
12
8
6

South Boundary

Twp. 16 S. R. 24 E.

30	29	28	27	26	24
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Tfr 17 S. R. 24 E

BOOK 1536

4

BOOK 1536

Survey of the W. Bdy
cls

Survey commenced
Jan 27, 1902 and
executed with a
Young & Sons Mountain
Transit No. 6855-
With Smith Solar
attachment.

The horizontal limb
is provided with two
double verniers placed
opposite to each other
reading to single min-
utes of arc, which is
also the least count
of the verniers of the
latitude and decl
arc.

The instrument
was examined &
tested on the true

Tp. 17 S. R. 24 E.

chs

meridian at Tucson found correct and was approved by the Surveyor General for Arizona
May 10, 1901

The instrument was tested on true meridian Jan. 18, as shown in note of survey of secs 21 and 28 T^p 18 S. R 24 E made under special instructions in connection with this contract

Jan 27th

At the cor secs 5, 6, 31 + 32 on S. boundary, I establish meridian with solar-time 8^h 30^m A.M.

6

BOOK 1536

Survey of the N. Bdy

cls

Lat. arc $31^{\circ}5-4'N$. Decl
arc $18^{\circ}33'S$. Checks
with old S. Bdy line
run in 1898, by me.

Var. $12^{\circ}35'E$

Thence I run
West on true line
bet secs 6 and 31 over
very rough mountains

14.70 Summit of rocky ridge
bet S.S.W + N.N.E.

29.00 Ascend steep slope cov-
ered with large granite
boulders.

40.00 Falls on granite rock
in place 4×3 ft., 4 ft.
high, chisel across (X)
for $\frac{1}{4}$ sec. cor. and
chisel $\frac{1}{4}$ N. of cross.
Raise mid of stone

Tfr 17 S. R 24 E
cls

2ft-base, 1 1/2 ft-high
on said rock N. of cor.

Thence a fine stump
5ft-high 1ft diam blazed
and scribed 1/4 S. 31 BT
brs N. 31° W. 21.5 ft-dist

41.00 Summit high rocky ridge,
brs N. N. E + S. S. W.

Thence descend and
across very rough ground

61.60 Pt where a low saddle
divide bet Noonan and
Pidwell canyons, course
E + W, brs N. 1 ch.

74.00 Ascend steep E. slope
of high ridge separating
the heads of Noonan and
Pidwell canyons from
Cochise stronghold.

78.45 Abrupt ascent of a

8

BOOK 1536

Survey of the N. Bdy
cls

fulpit like rock,
base 60 lks N + S.

height 13-ft

78.52 Summit of fulpit-
rock (level)

78.64 Cor. Tps 17 + 18 S. R 23 +
24 E. Set a granite
rock 18 x 12 x 12 in 12 in
inground, marked with
six notches on the N.
E. S. + W. edges.

Raise a mbl of stone
4 ft base 2 1/2 ft-high
North of cor (not prac-
ticable to build South)

Pits impracticable

Thence An Oak 12 ins
diam blazed + scribed
T 18 S. R 24 E. S. 6 B. T.

be S. 58° E. 26 ft-dist.

Tp 17, S. R. 24 E⁶ 9

BOOK 1536

Chs

An oak 15 in diam blazed
& scribed T 17 S. R 24 E. S 31 B. T.
brs N. 63° E 112.6 ft dist.
No other bearing trees
available.

Dos Cabezas Peak brs
N. 42° E.

College Peak brs S. 45° 38' E
Var 12° 20' E

Soil 3^d + 4th rate

No timber standing

Some brush

Mountainous land 78.64 chs

N. bet secs 31 and 36
Along E. slope of very
high divide near
summit and over
a succession of rough

Survey of the W. Bdy
chs

40.00 granite reefs.
Fall on a granite
rock 3x2 ft. 6 ins above
ground. Mark across (X)
for $\frac{1}{4}$ sec cor, and $\frac{1}{4}$ W.
of cross. Raise a mid
of stone 4 ft base 3 ft
high at of cor.

Pits impracticable

Jan. 28th

50.00 Ground less rocky
Ascend S. slope of an
E + W. ridge, a spur
of main ridge

60.00 Summit of lateral divide
bet Pidwell + Grapevine
canyons brs W. + E.
Continue along E. slope

79.00 Saddle: divide bet
Grapevine canyon and

The 17 S. R. 24 E.

BOOK 1536 11

chs

a deep rough canyon
leading N. into Stewart
Park.

80.00

Cov. secs 25, 30, 31 and 36,
Set granite rock 18x8x6
ins 12 ins in ground
marked with 1 notch on
S. and 5 notches on N.
edges; raise a end of
stone 3 1/2 ft base 2 ft high
W. of cov.

Pits impracticable
whence

An oak 12 ins diam
blazed and scribed
T 17 S. R. 23 E. S. 36 BT
brs S 79° 45' W, 70.5 ft dist.
No other bearing trees
available

Var. 12-33-E

12

BOOK 1536

Survey of the W. Bdy

chs

No timber standing
Some brush.

A few scrub oak trees.

Soil 3rd to 4th rate.

Land mountainous 80 chs

North bet secs 25 and 30
Descend rapidly, fol-
lowing bed and W. bank
of gulch through dense
undergrowth.

40.00

A granite rock in place
24 x 18 ins. chisel a
cross (x), and W. of cross

1/4: raise a mound
of stone 4 ft base

3 ft high W. of cor.

^{Imp. impracticable}
Continue along W.
bank of gulch.

Tp. 17 S. R. 24 E.

BOOK 1536

13

cls

80.00

Corsecs 19, 24, 25 and 30
Set a granite rock 18x8x6
ins, 12 ins in ground
marked with 2 notches
on S. + 4 on N. edges,

Whence, An oak 8¹/₂ diam
blazed + scribed T 17 S. R
24 E. S 19 BT, brs N. 73° 30' E
146 lks dist.

A stump 2 ft high, 14 ins
diam, blazed + scribed
T 17 S. R. 23 E. S. 24 BT., brs
N. 74° W, 36 ft - dist.

An oak 4 ins diam blaz-
ed and scribed -

T 17 S. R. 24 E S 30 BT
brs S. 48° 25' E, 44.5 ft dist.

The windmill at China
China Cattle Co's watering
place brs N. 24° 42' W about

14

BOOK 1536

Survey of the W. Bdy

cls

3/4 mile dist.

Chimney at S. end of
house of Northington
brs N. $33^{\circ} 5' 4'' E$ House of "Chapin" brs
N. $54^{\circ} 45' E$ Tent occupied by a Mex
ican family brs
N. $57^{\circ} 53' E$ Var. $12^{\circ} 35' E$ Soil 2^d + 3^d rate

Scattering oaks.

Much oak brush.

Mountainous land 8000

North bet secs 19 + 24

Descend along W. edge

Stewart Park.

40.00

Set a granite rock $24 \times$
 18×6 ins, 18 ins in ground
for 1/4 sec cor, marked

Tr. 17 S. R. 24 E

- chz
 1/4 on W. face; dig pits
 18X18X12 ins outline 3 ft
 dist; and raise a end
 of earth 3 1/2 ft base 1 1/2 ft
 high W. of cor.
- 43.30 Road Cochise Stronghold
 to Sulphur Spring Valley.
- 56.80 Summit of ridge forming
 N. bdy of Stewart Park
 frs W. & E. Thence
 descend toward wash
 of Cochise Canyon.
- 80.00 Set a granite rock 20X
 12X8 ins, 15 ins in the
 ground, for cor. of secs.
 13, 18, 19 and 24, marked
 with 3 notches on S., and
 3 on N. edges; dig pits
 18X18X12 ins, in each sec
 5 1/2 ft dist; and raise

16

Survey of the W. Bdy

obs

a mound of earth
4 ft base, 2 ft high
W. of cor.

Soil 2^d + 3^d rate

No timber, little brush

Land mountainous 80 chs

Var 12° 35' E

North bet secs 13 and 18
Leave mountainous
land and over mesa land.

9.00 Wash of Cochise Canyon
1.50 chs wide course N.E.

40.00 Set a limestone 15-X8X6 ins
10 ins in the ground
for $\frac{1}{4}$ sec cor, marked
 $\frac{1}{4}$ on W. face; dig pits
18X18X12 ins N + S of stone
3 ft dist, and raise

Tr. 17 S. R. 24 E

chs

a mound of earth
 $3\frac{1}{2}$ ft base $1\frac{1}{2}$ ft high
 W. of cor.

80.00

Set a granite rock $18 \times 10 \times$
 6 ins, 12 ins in the ground
 for cor. sec 7, 12, 13 and 18
 marked with 4 notches
 on S. and 2 notches
 on N. edges; dig pits
 $18 \times 18 \times 12$ ins, in each sec
 $5\frac{1}{2}$ ft. dist, and raise
 a mound of earth
 4 ft base, 2 ft high W.
 of cor.

Land mesa & foot hills
 Soil 2^d + 3^d rate
 No timber

Var. $12^{\circ} 10' E$

Jan 28th

Survey of the W. Bdy

cls

Jan 29th

- North bet. secs. 7 and 12.
Over mesa land
- 11.15 Gulch 15-20 yds wide, course E
- 14.75 Road to Good Hope Mine
N. W + S. E.
- 40.00 Set a limestone 18x8x4 in
12 ins in ground for $\frac{1}{4}$
sec. cor. marked $\frac{1}{4}$ on
W. face; dig pits 18x18x
12 ins N. and S. of stone
3 ft dist; and raise
a mound of earth
3 $\frac{1}{2}$ ft base, 1 $\frac{1}{2}$ ft high
W. of cor.
- 61.20 Gulch 45-60 yds wide, course
N. E.
- 80.00 Set a limestone 14x12x10
ins, 10 ins in the ground
for cor of secs 1, 6, 7 + 12

Twp. 17 S. R. 24 E.

chs

marked with 5 notches
on S. and 1 notch on
N. edges; dig pits $18 \times 18 \times$
 12 ins, in each sec
 $5\frac{1}{2}$ ft. dist; and raise
a mound of earth
4 ft. base, 2 ft. high
W. of cor.

Land mesa
Soil 2^d and 3^d rate
No timber

Var. $12^{\circ} 35'$ E

North bet secs 1 and 6
over mesa land.

31.80 Gulch 30 lks wide
course E.

40.00 Set a granite rock
 $18 \times 8 \times 6$ ins, 12 ins in
ground for $\frac{1}{4}$ sec. cor.

Survey of the W. Bdy
chs

marked $\frac{1}{4}$ on W. face,
dig pits $18 \times 18 \times 12$ ins
N. and S. 3 ft. dist.,
raise a mound of
earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft.
high W. of cov.

79.82 Intersect S. Bdy T¹/₆ S.
R. 23 E. at S. 8th 5-7th W
16.92 chs from cov. T¹/₆ S.
16 S. R. 23 + 24 E.

Set a limestone $18 \times 10 \times 8$
ins 12 ins in ground
marked with 6 notches
on the E, S, and W. edges
24 E on S. E. face +
17 S. on S. W. face
dig pits $30 \times 24 \times 12$ ins
4 ft. E + W. and 8 ft. S.
raise a mound
of earth 5 ft. base

Tps. 17 S. R. 24 E.

clus

2 1/2 ft high S. of cor.
Whence, W. Peak
of Dos Cabezas brs
N. 51° 05' E.

House at N. Y Ranch
brs N. 71° 40' E about 7
miles dist.

S. P. R. R. Station town
of Cochise brs N. 10° E.
Land mesa + rocky
Some greasewood brush
No timber
Soil 2^d + 3^d rate

N. 89° 57' E on true
line bet. secs 6 and 31

16.92 Cor Tps 16 and 17 S. Rs. 23
and 24 E. A post 4x4 ins
as described by the
Surveyor General.

Survey of the N. Bdy
 chs

I change marking
 on post to apply to
 Tps. 16 S. Rs 23 + 24 E. only.
 Change pits to be as
 follows; dig pits 30x
 24x12 inc 4 ft E + N. and
 8 ft N. of cor; raise
 mound of earth 5-ft-
 base 2 1/2 ft high N. of cor
 Land sloping East.
 Much sage brush.
 1692 chs

Presuming the mea-
 surements of N. + S. Bdy's
 to be correct, and the
 course of E Bdy to be
 North, while that of
 N. Bdy is West, the
 distance from new
 cor Tps. 17 S. Rs 23 + 24 E

Tps 17 S. R. 24 E.

chs

to old cor now changed
to cor Tps 16 S. Rs 23 + 24 E.
should be (making proper
allowance for convergency)
18.19 chs. Hence the
distance measured, viz,
16.92 chs would indicate
a serious closing error.
To check my work
I proceed to the cor
Tps, 17 + 18 S. Rs 24 + 25 E
where in 1898 I estab-
lished a true meridian
afterwards checked
by Examiner of sur-
veys, Hollyday.
I determine meridian
with my solar and
find that it agrees
with the true meridian

Retracement S. Bdy

cls

Note: Original survey by Henry A. Cox Oct. 20, 1882.

mentioned above.
 From this point the
 $\frac{1}{4}$ sec. cor bet. secs 31 & 36
 and the cor of secs
 25, 30, 31 and 36, Tpr 17S,
 R. 24 and 25-E, are
 visible and bear
 $N. 0^{\circ} 05' W$, which course
 I accept as the course
 of the E. boundary
 of the Tpr.

Jan 29, 1902

Jan 30th

From the Cor. Tps 16 &
 17S. R. 24 and 25-E, I
 rerun the S. Bdy of
 Tpr 16 S. R. 24 E, as follows
 $S. 89^{\circ} 57' W$ on true line
 bet secs 1 and 36.

Tfr 16 S. R. 24 E

dis

40.09 1/4 sec. cov. A fine
post 4x4 ins correctly
marked; in good
condition.

Redig pits + rebuild
mound.

80.15- Cov secs 1, 2, 35 and 36.
Post gone - faint signs
of pits.

Set a granite rock
16x8x4 ins 11 ins in
ground marked with
1 notch on E and 5 on
W. edges.

Redig pits + rebuild
mound.

Land level.

No timber or brush.

Soil 2^d rate.

Retracement S. Bdy

chc

- S. $89^{\circ} 5-7'$ W on true line
bet. secs 2 and 35-
- 00.15 Center freight road Cochise
Station to Pearce brs
N. N. W. and S. S. E.
- 3.65 Telegraph line Cochise to
Pearce brs N. N. W. + S. S. E
- 4.05 Stage road Cochise
to Pearce.
- 15.45 Upper road Cochise to
Pearce brs N. N. W. + S. S. E.
- 40.07 $\frac{1}{4}$ sec. cor; a post 4×4 ins
lying on ground prop-
erly marked. Reset post.
redig pits; rebuild ind.
- 80.15 cor secs 2, 3, 34 and 35.
A post 4×4 ins properly
marked lying on the
ground. Reset post
Redig pits + rebuild

Twp 16 S. R. 24 E

chs

mound,
Land level
soil 2^d rate
No timber

S. 89°-3-7' W on true line
bet secs 3 and 34

6.82 Road N.Y. to Cochise
stronghold brs N.E. + S.W.

40.04 $\frac{1}{4}$ sec cor: A post 4x4 ins
properly marked, in good
condition. Redig pits
and rebuild mound

80.10 Cor. secs. 3, 4, 33 and 34
A post 4x4 ins, properly
marked, in good
condition.
Redig pits and
rebuild mound.

Retracement S. Bdy
chs

Land level, sloping
Eastward.

Soil 2^d rate.

No timber.

S. 89° 5-7' W on true line
bet secs 4 and 33

40.01 $\frac{1}{4}$ sec cor. A post 4x4 ins
properly marked, in
good condition.

80.03 ^{Redig pits & rebuild mound}
Cor, secs, 4, 5, 32 and 33
A post 4x4 ins properly
marked in good
condition. Redig pits
and rebuild mound.
Land level sloping E.
Soil 2^d rate.

No timber.

Tfr 16 S. R. 24 E

chs

S. $89^{\circ} 57'$ W on true line
bet secs. 5 and 3214.75 Road. Cochine to Middle
march bcs N.W. W. + S.S.E.40.01 $\frac{1}{4}$ sec. cor. A post 4x4 ins
properly marked, in
good condition.
Redig pits and
rebuild mound.80.01 Cor. secs. 5, 6, 31 and 32.
A post 4x4 ins properly
marked, in good
condition.Redig pits, and
rebuild mound.
Land sloping E.
Soil 2 $\frac{1}{2}$ rate.
No timber; little brush

30

BOOK 1536

Retracement S. Bdy Twp 16 S. R24 E

the

S. 89° 3-7' W on true
line bet. secs 6 + 3140.01 1/4 sec. cov. A post 4x4 ins
properly marked in
good condition.Redig pits, and
rebuild mound.

60.01 Cov. Twp. 16 S. R23 + 24 E.

Land sloping East.
Soil 2^d rate.Much sage brush ^{60.01}

No timber.

Boundaries Twp 17 S. R 24 E

Latitudes, Departures and
closing errors

Line designated	True bearing	Dist	Latitudes		Departures	
			N	S	E	W
North bdy	N. 89° 37' E	477.37	0.42		477.37	
East bdy	S 0° 05' E	480.12		480.12	.70	
South bdy	West	478.64				
West bdy	North	479.82	479.82			478.64
Convergence					.45	
Totals			480.24	480.12	478.52	478.64
			480.12			478.52
Error in lat			0.12	Error in dep		0.12

Lumbston Ariz
Feb 18 1902

John A. Rockfellow
U.S. Dep Surveyor