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Approved June 29. 1892

Copy sent July 16. 1892

1616

~~4-671~~

1616

BOOK 1616

FIELD NOTES

GENERAL LAND OFFICE

East Boundary of Trac.

T. 4. S. R. 6. West.

Retracing. §. By. T. 4. S. R. 6. W.

Contract No 13.

H. M. Breckenridge.

Dated June 2, 1890.

Survey commenced July 22. 1890

Survey completed July 30. 1890

Field Notes  
of the Survey of the  
East Boundary Line  
of Fractional part of  
Township 4 South Range 6 West  
of the  
Sila and Salt River Base and  
Meridian  
in the  
Territory of Arizona  
as surveyed by  
William M. Beakewridge  
U. S. Deputy Surveyor  
Under his contract  
No 13

Dated June 2. 1890

Survey commenced July 22. 1890  
Survey completed July 31. 1890

Names and Duties of Assistants

John P McPhaul	Chairman
Willis D Henry	Chairman
Robt H Hiatt	Flagsman
Robt Douglass	Alman
Charles F. Chick	Alman

2A

# Preliminary Oaths of Assistants.

BOOK 1616

We, John P McPhaul

and Willis D. Murray

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 lengths of all lines that we assist in measuring, to the best of our skill and ability and in accordance with the instructions given us

*except and subdivision lines of*  
In the survey of the fractional part  
of T<sub>4</sub> R<sub>6</sub> W also fractional  
part of T<sub>6</sub> 4<sup>th</sup> 15<sup>th</sup> range 4 west

John P. McPhaul  
Willis D. Murray

Sworn to and subscribed before me, this 22<sup>nd</sup> day of

July

, 1894

Frank D. Weir  
Notary Public

3  
We, Robert H Niess, Robt

Douglas and Charles F Chick

do solemnly swear that we will well and truly perform the  
duties of Flagman <sup>and</sup> Axman

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 exterior and  
subdivision lines of the fractional parts of  
4th R 6th Wales fractional part of 9 4<sup>th</sup> and 5<sup>th</sup>  
range 4 West 2<sup>nd</sup> 1 R B and M

Robt H Niess Flagman  
Robt Douglas Axman  
Charles F Chick Axman

Sworn to and subscribed before me this 22<sup>nd</sup> day of

July, 1890

Frank D Welton  
Notary Public

(4-174.)

Township

40

R. 6W

BOOK 1616

6	5	4	3	2	1	
7	8	9	10	11	12	
18	17	16	15	14	13	
19	20	3	21	22	23	24
30	29	28	27	26	25	
31	32	33	34	35	36	
16	17	18	19	20	21	22

(11921-10 M.)

6-389

12

11

9

Ind. ex. —

Trac. East Bdry T45 R6W

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South " T45 R6W

Page 16

2 4 East Boundary of Fractional part of  
Township 4 South Range 6 West

Chains Survey commenced July 22, 1890  
with a light Mountain Transit made  
by W<sup>rd</sup> L E Gurley and provided  
with a Solar Attachment.

BOOK 1616

Not being able to find the corner  
to Tps 4<sup>th</sup> & 5<sup>th</sup> R 5<sup>th</sup> & 6<sup>th</sup> W I commence  
by going to the section corner  
2 miles south on the T<sup>p</sup> line which  
is a mesquite post set firmly in  
the ground. 4 in square marked  
T 5 S. S 7 on N.E.

R 5 W S 18 on S.E.

R 6 W S 13 on S.W

and S 12 on N.W faces with  
pits very indistinct.

Longitude  $112^{\circ} 46' 54.6''$  West  
Latitude  $33^{\circ} 00' 10.12''$  North  
Having set the instrument over  
this corner July 22, 1890. I direct  
the telescope to Polaris and at

chains 11<sup>h</sup> 47<sup>m</sup> Local mean time of Eastern elongation I find the magnetic bearing of the star is  $N 11^{\circ} 35' W$   
 North end of Needle  $11^{\circ} 35' E$   
 Azimuth of Polaris  $1^{\circ} 31' E$   
 the sum is the variation  $13^{\circ} 6' E$

At 6 o'clock A. M. July 23. 1890 I ran North between sections 7<sup>th</sup> and 12

va  $13^{\circ} 6' E$

to a foresight on the Gila Mountains and at 40.04 chains found  $\frac{1}{4}$  sec cor lying down on line marked  $\frac{1}{4} S$ . I reset post which is mesquite  $3\frac{1}{2}$  ft long 3 ins square. 18 ins in ground and dig pits  $N$  and  $S$   $5\frac{1}{2}$  ft dist  $18 \times 18 \times 14$  ins and raise mound of earth  $1\frac{1}{2}$  ft high  $3\frac{1}{2}$  ft base around post and continue the line  $N$ . at 80.11 chains I find old sec cor



6 East Boundary of Fractional part of  
T<sub>1</sub> 4 S R 6 W continued

Chain's post standing firmly in the  
ground with marks nearly ab-  
literated 4 links East of line

BOOK 1616

Thence North to the same foresight  
on the Gila Mountains between  
Sec 1 and 6

Sa  $13^{\circ} 6' E$

17.20 Left hand bank of Gila River  
the old meander post having been  
washed away by high water  
I set new meander post 4 ft long  
4 ins square with marked stone  
17 ins in ground for meander cor to  
fractional secs 1 and 6 marked  
M. C. on N side and  
T<sub>1</sub> 5 S on S  
R 5 W R 6 on E  
R 6 W S 1 on W face. dig pit  
3 ft square 1 ft deep, 8 links south

East Boundary of Fractional part of 7  
No 4 S R 6 W continued

BOOK 1616

chains of post and raised mound of  
earth 2 ft high  $4\frac{1}{2}$  ft base  
around post

The river being shallow I chain

21.50 to N bank of river and set a post  
4 ft long 4 ins square with marked  
stone 12 ins in the ground for meander  
corner to fractional Secs 1 and 6 on  
N bank of Lida river marked  
M. 6. on S side and  
T 5 S on N

R 5 W S 6 on E

R 6 W S 1 on W faces dug pit  
3 ft square 12 ins deep 8 links  
N of post and raised a mound of  
earth 2 ft high  $4\frac{1}{2}$  ft base around  
post

40.00 Could not find any trace of  $\frac{1}{4}$  sec  
corner so I reestablish it as follows  
set a post 4 ft long 3 ins square

8 East Boundary of Fractional part of  
T<sub>4</sub>S R 6 W continued

Chains with marked stone 17 ins in ground  
for  $\frac{1}{4}$  sec cor marked  $\frac{1}{4}$  S on W side  
dug pits 18 x 18 x 17 ins N and S of post  
 $5\frac{1}{2}$  ft dist and raised a mound  
of earth  $1\frac{1}{2}$  ft high  $3\frac{1}{2}$  ft base around  
post

79.88 find old mound with pits filled  
up and post destroyed 5 links  
east of line

I reestablish this corner by putting  
in a *mosquito* post  $4\frac{1}{2}$  ft long 4 ins  
square with marked stone 17 in  
in ground for cor to T<sub>4</sub>S 4 and 5  
south Range 5 and 6 west marked  
T<sub>4</sub>S R 5 W D 31 on N.E.

T<sub>5</sub>S R 5 W D 6 on S E

T<sub>5</sub>S R 6 W D 1 on SW

T<sub>4</sub>S R 6 W D 36 on NW face  
with 6 notches on each edge  
dug pits 24 x 18 x 17 ins lengthwise

BOOK 1616

East Boundary of Fractional part of 9  
T<sub>4</sub> S R 6 W continued BOOK 1616

Chains on each line N, S, E, and W of post  
6 ft disk and raised a mound of  
earth  $2\frac{1}{2}$  ft high 5 ft base around  
post

Thence North between Secs 31 and 36  
S<sub>a</sub>  $13^{\circ}6'E$

From this corner which is the S.E. cor  
of T<sub>4</sub> S R 6 W I ran toward the  
same foresight on Lida Mountains  
T. J. Boswick cabin to N  $8^{\circ}30'W$

- 20.00 enter plowed land  
37.00 leave plowed land  
34.50 cross citrus ditch 8 ft wide  
40.00 set a post 4 ft long 4 ins square  
with marked stone 12 ins in ground  
for  $\frac{1}{4}$  sec cor marked  $\frac{1}{4}$  S on W side  
dug pits 18 x 18 x 14 ins N and S of  
post  $5\frac{1}{2}$  ft disk and raised a  
mound of earth  $1\frac{1}{2}$  ft high  $3\frac{1}{2}$  ft

10 East Boundary of Fractional part of  
T 4 S R 6 W continued

BOOK 1616

chains. base around post

T T Roswicks Cabin bears  $S 14^{\circ} 5' W$

63.00 deep wash 17 chains wide to  $S 18^{\circ} W$

75.00 top of bank of deep wash on mesa  
17 ft high

80.00 Set a mesquite post 4 ft long 4 ins  
square with marked stones 12 ins in  
ground for cor to sections

25-36-30 and 31 marked

T 4 S S 30 on NE

R 5 W S 31 on SE

T 4 S S 36 " SW

R 6 W S 25 " NW faces with  
5 notches on N and 1 notch on S edges

Dug pits  $18 \times 18 \times 17$  ins in each Sec  
 $5 \frac{1}{2}$  ft dist from post and raised  
a mound of earth 2 ft high  $4 \frac{1}{2}$  ft  
base around post

Land level and rolling

Soil rich loam 1<sup>st</sup> State

East Boundary of Fractional part of 11  
T<sub>4</sub>S R<sub>6</sub>W Continued

BOOK 1616

Chains mesa land is good fruit land  
no timber

North between Secs 25<sup>and</sup> 30

to 13° 6' E

I ran line to same foresight on  
Sila Mountains

over level mesa

40.00 Set a post 4 ft long 4 ins square  
with marked stone 1 1/2 ins in ground  
for 1/4 sec cor marked 1/4 S on W side  
dug pits 18 x 18 x 1 1/2 ins N<sup>and</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

80.00 Set a post 4 1/2 ft long 4 ins square  
with marked stone 1 1/2 ins in ground  
for cor to Secs 24-25-19<sup>and</sup> 30. Marked  
1/4 S S 19 on NE  
R 5 W S 30 on SE

15 East Boundary of Fractional part of  
Tp 4 S R 6 W Continued

BOOK 1616

Chains T 4 P 8 24 on NW

R 6 W S 25 on SW face with  
4 notches on N and 2 notches on S  
edges, dug pits 18 x 18 x 1 1/2 ins in  
each sec 5 1/2 ft disk and raised  
a mound of earth 2 ft high 4 1/2  
ft base around post

Land level

Soil rich mesa fruit land 1<sup>st</sup> rate

No timber

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North between Secs 24 and 19

to 13° 6' E

I ran line to same foresight  
on Gila Mountains

40.00 Set a post 4 ft long 4 ins square  
with marked stone 12 ins in  
ground for 1/4 sec cor marked  
1/4 S on W face and dug pits  
18 x 18 x 1 1/2 ins N and S of post

East Boundary of Fractional part of  
No 4 S R 6 W Continued

BOOK 1616

- chains 5 1/2 ft dist and raised a mound  
of earth 1 1/2 ft high 3 1/2 ft base  
around post
- 41.20 South bank of wash hrs S 30° W
- 42.40 North bank of wash
- 54.00 foot of Malpais Mesa, leave  
level mesa land and ascend
- 60.00 top of mesa. 20 ft high  
descend mesa
- 80.00 bank of dry creek hrs S 31° 30' W  
Set a post 4 ft long 4 in square  
with marked stone 14 in in the  
ground for cor li sections  
T 4 S S 18 on NE  
R 5 W S 19 on SE  
T 4 S S 13 on NW  
R 6 W S 24 on SW faces with  
3 notches on N and 3 notches on S edges  
and raised mound of stone



14 East Boundary of Fractional part of  
T<sub>4</sub> S R 6 W continued

Chains around post 2 ft high  $4\frac{1}{2}$  base  
feet impracticable

Land rough and broken

Soil 1<sup>st</sup> and 4<sup>th</sup> rate

as the land north of this point  
is not susceptible of cultivation

I discontinue the line and  
return to South side of Township

#### General Description

This line runs across the valley  
of the Gila River on the North  
side, and into the rolling mesa  
land toward the foot of the Moun-  
tains north, the fractional town-  
ships on each side are of the same  
character of land

W M Breakeur & Co  
U S Deputy Surveyor

BOOK 1616  
9191

Re-survey of the South Boundary of 15<sup>15</sup>  
T 4 S R 6 W L. BOOK 1610

chains The witness corner described in the  
Field Notes of the original survey as  
being situated 5 chains south of the  
corner to Secs 35 and 36, T 4 S R 6 W  
on the sec line between Sec 1 and 2  
T 5 S R 6 W having been destroyed  
and the bed of the river having changed  
since the original survey. I commenced  
at the 1/4 sec cor between Secs 1 and 2  
T 5 S R 6 W and ran North  
between Secs 1 and 2

Sa 13° 6' E

19.00 to a foresigh on the Lila Mountains  
bank of old river bed about 10 ft high  
thence through thick cottonwood  
timber in old river bottom

34.00 leave cottonwood timber  
continue in old river bed

40.00 Set temporary markers to sections  
1-2-35 and 36

July 23 1890

16 Resurvey of the South Boundary of  
Tp 4 S R 6 W Continued

Chains I then went to the SW corner  
of Tp 4 S R 6 W which is a post  
in mound with pits very deep  
and marks on post nearly obliterated  
as it was a very cloudy day I  
set up my instrument at the  
above described post and take  
a backsight at a flag set at a  
post 1 mile south marked

T 5 S R 6 W D 6 on NE

D 7 on SE

T 5 S R 7 W D 1 on NW

D 12 on SW face

and find the  $\text{Va}$  is  $13^{\circ} 8' E$

thence due East

$\text{Va}$   $13^{\circ} 8' E$

to a flag set at a post 1 mile  
east marked

T 4 S R 6 W D 32 on NE

T 5 S R 6 W D 5 on SE

BOOK 1616

Retracing of the South Boundary of '17  
T4 S R 6 W continued

Chains

S 6 on SW

BOOK 1616

S 31 on NW face

40.12

found old  $\frac{1}{4}$  sec cor which is a decayed stake lying on the ground. I destroyed the old stake and set a post 4 ft long 4 ins square with marked stones 12 ins in the ground for  $\frac{1}{4}$  sec cor marked  $\frac{1}{2}$  S on N face, dug pits 18 x 18 x 12 ins E and W of post  $5\frac{1}{2}$  ft dist and raise a mound of earth  $1\frac{1}{2}$  ft high  $3\frac{1}{2}$  ft base around post

80.20

Connect on Sec Cor at flag, cor to Secs 31-32-5 and 6

N  $89^{\circ}34'E$  on true line between

Secs 32 and 5

to  $13^{\circ}6'E$

40.07

found  $\frac{1}{4}$  sec cor 6 links N of line

80.17

found old Sec Cor to Secs 4-5-32 $\frac{2}{3}$ /33

18 Retracing of the South Boundary of  
T<sub>4</sub>S R<sub>6</sub>W continued

Chains marked T<sub>4</sub>S R<sub>6</sub>W S<sub>33</sub> on NE  
T<sub>5</sub>S R<sub>6</sub>W S<sub>4</sub> on SE  
S<sub>37</sub> on NW  
S<sub>5</sub> on SW faces  
with mound and pits nearly  
obliterated, I cleaned out old  
pits and built mound of earth  
2 ft high 4 1/2 ft base around post

At  $89^{\circ}31'$  E on true line between  
secs 33 and 4  
Sa  $13^{\circ}6'$  E

40.00 find old 1/4 sec cor on line

80.75 old sec cor mound with pits and  
post destroyed.

I reestablish sec cor to secs  
33-34-3 and 4 by setting a post  
4 ft long 4 in square with marked  
stone 1/4 in in ground marked  
T<sub>4</sub>S S<sub>34</sub> on NE

BOOK 1616

Retracing of the South Boundary of 19  
Tp 4 S R 6 W Continued

Chains R 6 W S 3 on S E <sup>BOOK</sup> 1616

S 5 S S 4 on SW

S 3 S on NW faces and  
dug pits 18 x 18 x 1 1/2 ins in each  
section 5 1/2 ft dia and raised  
mound of earth around post  
2 ft high 4 1/2 ft base

S 89° 44' E on true line between  
Sections 34 and 3

Va 13° 6' E

40.00 - find old mound and dig pits  
with post destroyed and reestablish  
1/4 sec cor by putting in a post  
4 ft long 4 ins square with marked  
stone 1 1/2 ins in the ground marked  
1/4 D on N face and dig new pits  
18 x 18 x 1 1/2 ins on E and W side of  
post 5 1/2 ft dia and raised a  
mound of earth 1 1/2 ft high 3 1/2 ft

20 Retracing of the South Boundary of  
T<sub>p</sub> 4 S R 6 W Continued

chains base around post

81.70 found old sec cor which is a post  
3 in square set firmly in  
the ground with deep pits -  
the marks on the post were  
nearly destroyed. I dug out  
old pits 18x18x17 in and raised  
mound of earth 7 ft high 4 1/2 ft  
base around post.

BOOK 1616

N 89° 50' E on true line between  
Sections 35 and 2  
Va 13° 6' E

40.19 found old 1/4 sec cor standing  
firmly in the ground on line  
53.00 through thick low brush in old  
river bed

80.28 intersect line, ran North from 1/4  
sec cor between Sec 1 and 2  
at this point I set a post

Resurveying of the South Boundary of 21  
Tp 4 S R 6 W Continued

BOOK 1616

Chains  $4\frac{1}{2}$  ft long 4 ins square with  
marked Stone 12 ins in the ground  
for cor to Secs 35-36-1 and 2  
marked T 4 S S 36 on NE  
R 6 W S 1 on SE  
T 5 S S 2 on SW  
S 35 on NW face  
with 5 notches on W and 1 notch  
on E edges and deep pits  $18 \times 18 \times 12$   
ins in each Sec  $5\frac{1}{2}$  ft disk and  
raised a mound of earth 2 ft  
high  $4\frac{1}{2}$  ft tall around post

East on random line  
between Secs 1 and 36  
S at  $13^{\circ}6' E$

40.00 set temporary  $\frac{1}{4}$  sec cor  
81.44 intersect east line of township  
23 links South of  $\frac{1}{4}$  corner



72 Retracing of the South Boundary of  
Tp 4 S R 6 W Continued

Chains corner to Sections 1-6-31 and 36

BOOK 1616

Thence I ran

189°50'W on true line between  
Sections 1 and 36 with same Va

40.72 Set a post 4 ft long 4 ins square  
with marked stone 17 ins in the  
ground for  $\frac{1}{4}$  sec cor marked  
 $\frac{1}{4}$  S on N face dug pits 18x18  
x 17 ins on E and W side of post  
 $5\frac{1}{2}$  ft dish and raised mound  
of earth  $1\frac{1}{2}$  ft high  $3\frac{1}{2}$  ft base  
around post.

74.60 Right bank of Gila River

Set a post 4 ft long 4 ins square  
with marked stone 17 ins in the  
ground for meander cor to fractional  
Secs 1 and 36 marked

M. C. on W face

Tp 5 S S 1 on S

T 4 S S 36 on N

Retracing of the South Boundary of <sup>23</sup>  
T<sub>40</sub> R<sub>6W</sub> continued BOOK 1616

Chains R 6 W on E face. dug pit  
3ft square 17ins deep 8 lines  
East of post and raised a mound  
of earth 2ft high 4 1/4 ft base  
around post

79.70 Left bank of Sila River  
Set a post 4ft long 4ins square  
with marked stone 17ins in the  
ground for meander cor to fractional  
Sections 1 and 36 marked

M. L. on E face

T 5 S S 1 on S

T 4 S S 36 on N

R 6 W on W face dug pit  
3ft square 17ins deep 8 lines  
W of post and raised a mound  
of earth 2ft high 4 1/4 ft base  
around post

81.44 the cor to Secs 35-36-1 and 2

## List of Names

A list of the names of the individuals employed by Wm M Beakemridge U. S. Deputy Surveyor to assist in running measuring and marking the lines and corners described in the foregoing field notes of the survey of the East Boundary line of the Fractional part of Township 4 South Range 6 West and retracing of the South Boundary line of same Township, Gila and Salt River Base and Meridian in the Territory of Arizona showing the respective capacities in which they acted

John P McPhaul	chairman
Willis D Henry	chairman
Robert H Hiett	Playsman
Robert Douglass	Arman

*List of Names Continued**Charles F. Chick Axman**William M. Beakuridge**U S Deputy Surveyor**September 25<sup>th</sup> 1890*

U. S. Surveyor-General's Office,

TUCSON, A. T.,

Oct 10 1891

The foregoing Field Notes of the Surveys of  
 East Boundary of Front part  
 of T<sup>p</sup> 4, South Range 6, West;  
 and Retracing South Boundary  
 T<sup>p</sup> 4, S. R. 6 West Gila and Salt River Meridian  
 in Arizona Territory executed by  
 William M. Breakenridge.

U. S. Deputy Surveyor, under his contract dated  
 June 2, 1890 (No 13)  
 having been critically examined, the necessary correc-  
 tions and explanations made, the said Field Notes and  
 the surveys they describe are hereby approved.

Wm. M. Breakenridge

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