

Recd. Sept 15. 1891 No. 1

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Approved by Com<sup>r</sup>  
G.L.O. Oct 8. 1891

1600

4-671

BOOK 1600

FIELD NOTES BOOK 1600

GENERAL LAND OFFICE

West and North boundaries

T 7 S R 1 E

Contract No. 1

Serial Drummond

Dated Mar 29<sup>th</sup> 1891

Commenced April 15<sup>th</sup> 1891

Completed Sept 2<sup>nd</sup> 1891

16091

< 13. Books >

1A

BOOK 1600

(4-674.)

Township *T. S.* R. *31 East*

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

(11921-10 M.)

6-389

*West Bdy Page 4*  
*North " " 16*

10  
Preliminary Oaths of Assistants.

BOOK 1600

We Charles D Mansfield  
and Andrew J. Burks

do 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 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

Exterior lines of Tps. 6 S. R. 30<sup>and</sup> 31. Sp. 7. S. R. 31 E. also  
the subdivisions of the above  
and meanderings of Gila River

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

Charles D. Mansfield Chainman.

Andrew J. Burks Chainman.

Subscribed and sworn before me, this 13

day of July 1881

Daniel Drummond

Notary Public.

U. S. Deputy Surveyor  
Note. Notary Not accessible

We Oscar A Hyatt and  
Frank Smith

do solemnly swear that we will well and truly perform the  
the duties of Axeman and Flagman

**BOOK 1600**

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 lines of Tps  
G.S. Rs 30 and 31 E. Tp. 7 S. R 31 E.  
and the subdivisions of the above  
named Tps. also the meanders  
of the Gila River in said Tps.  
of the principal base and meridian in the Territory of Arizona.

Oscar A Hyatt Axman  
Frank Smith Flagman

Subscribed and sworn to before me this 13

day of July 1891

Daniel Drummond  
Notary Public.

U.S. Deputy Surveyor

Note. Notary not accessible.

1600

1D

BOOK 1600

Field notes

of the survey of the west and  
north boundaries of Townships  
7 South Range 31 E.

of the  
Gila Ind. Salt river base and  
Meridian  
in the

Territory of Arizona

as surveyed by

Daniel Drummond

U. S. Deputy Surveyor.

Under his contract

No. 18

Dated May 29<sup>th</sup> 1891

Survey commenced July 13<sup>th</sup> 1891

Survey completed Sept. 2<sup>nd</sup> 1891

## Exterior Boundaries T. 7. S. R. 31

chains Survey commenced July 13, 1891, with a Gurley transit, with solar attachment.

At the Cor. to Tps. 7. S. R. 30<sup>and</sup> 31 E in Lat.  $32^{\circ}46'N$ . Long.  $109^{\circ}10'W$ . I observe Polaris at its eastern elongation, at  $11^h 54^m 40^s$  P.M. My watch having been corrected to mean solar time, I drive a picket, in the line, thus determined, 5 chains N. of the Cor. At 7 a.m. July 14, 1891 I lay off the azimuth  $1^{\circ}31'$  to the west, and mark the true meridian so found.

Exterior Boundary T. 7. S. R 31 E

chain I tested my transit  
by use of the Solar  
Apparatus at 7.30 a.m.  
8 a.m. and 8.30 a.m. on  
the morning of July  
14, 1891, and the meridian  
thus determined, agreeing  
<sup>with</sup> the true meridian as  
established by the obs=  
ervation on Palaris.

Exterior Boundary T. 7. S. R. 31. E

chains I begin at the Cor to  
Tps. 7. S. R. 30 and 31 East  
which is a post  $4\frac{1}{2}$  ft long  
4 ins sq. Marked

T. 7. S. S. 31 on N.E.

R. 31. E. S. 6 on S.E.

T. 8. S. S. 1. on S.W.

R. 30. E. S. 36 on N.W. face  
with 6 notches on each  
edge, and raised a Md.  
of stones.

A juniper tree 24 ins  
diam bro  $N 48\frac{1}{2}^{\circ} E$

6.15 chs. dist. Marked

T. 7. S. R. 30. E. Sec. 31.

B. T.

## Exterior Boundaries T. 7. S. R. 31. E.

Chain Thence I run North bet  
Secs. 31 and 36.

Va.  $12^{\circ}32' E$

2.95 Ash Creek 110<sup>chs</sup> wide, Course E

4.60 Road, Ash Spring to Sheldon E & W,

9.03 Gulch, Course S. E.

6.30 Top of ridge E and W,

0.50 Gulch, Course S. E.

40.00 Set a Porphyry Stone

24 X 8 X 8 ins, 18' ins in the  
ground for  $\frac{1}{4}$  Cor. Marked  $\frac{1}{4}$  on  
W face, and raised a wall of  
stone  $1\frac{1}{2}$  ft high 2 ft base along side  
Pits impracticable

40.80 Wash 0.10<sup>chs</sup> wide Course E,

50.82 Top of ridge E and W,

54.90 Gulch 5 links wide Course E

61.50 Ridge Course E and W,

71.70 Wash 1.15<sup>chs</sup> wide Course S. E.

## Exterior Landmarks T. 7. S. R. 31. E.

chaus  
80.00

Set a post  $4\frac{1}{2}$  ft. long  
4 ins square, with marked  
stone 12 ins in the ground  
for Cor to Secs. 25, 30, 31  
and 36. Marked

T. 7. S. S. 30. on N.E.

R 31 E S 31 on S.E.

R 30 E S 25 on N.W. and  
S 36 on S.W. faces with  
5 notches on N. and 1  
notch on S. and raised  
a wd of earth 2 ft high  
 $4\frac{1}{2}$  ft. base around post.  
Land hilly and broken  
Soil gravelly 3<sup>d</sup> rate  
No timber

## Exterior Boundaries T. 7. S. R. 31. E.

- North bet. Secs. 25 and 30.  
 Va.  $12^{\circ}30'E$
- 1.10 Wash 5 links wide Course E
- 7.60 Top of ridge running E. & W.
- 3.40 Gulch 10 lks. wide Course E.
- 4.70 Top of ridge Course E and W.
- 0.00 Set a limestone  $24 \times 14 \times 10$  ins  
 18 in the ground for  $\frac{1}{4}$  <sup>sec</sup> Cor.  
 marked  $\frac{1}{4}$  on W face. and raised  
 a md. of stone  $1\frac{1}{2}$  ft high.  
 2 ft base. alongside.
- 3.00 Gulch 5 links wide Course E
- 4.80 Gulch 15 links wide Course E
- 8.00 Wash 10 links wide Course E
- 4.70 Gulch 5 links wide Course E
- 0.00 Set a granite stone  $16 \times 10 \times 8$  ins  
 11 ins in the ground for Cor  
 to Secs 19. 24. 25. and 30. Marked  
 with 4 notches on N. and 2  
 notches on S. faces. and raised

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Exterior Boundaries T. 7. S. R. 31. E.

Chains a mound of Stone 2 ft  
high.  $4\frac{1}{2}$  ft base alongside  
Pl'ts impracticable  
Land hilly and broken  
Soil Gravelly. 3<sup>d</sup> rate  
No timber

## Exterior Boundaries T. 7. S. R. 31. E.

- Chain North bet Secs. 19 and 24  
Va.  $12^{\circ}30' E$
- 2.90 Gulch 10 links wide Course E.
- 4.20 Gulch 5 links wide Course E.
- 5.90 Top ridge running E. and W.
- 10.00 Set a porphyry stone  
28x10x8 ins. 21 ins in the  
ground. for  $\frac{1}{4}$  Sec Cor. Marked  
 $\frac{1}{4}$  on W face, and raised a  
Mound of stone  $1\frac{1}{2}$  ft high. 2  
ft base alongside. Pit impracticable
- 41.60 Enter Wash. Course Easterly
- 45.30 Leaves Wash
- 64.10 Gulch 5 links wide Course S.E.
- 68.50 Gulch 10 links wide Course E
- 79.00 Top of ridge, Course E. and W.
- 80.00 Set a granite Stone 26x12x10  
ins. 20 ins in the ground. for  
Cor to Secs. 13, 18, 19 and 24

Exterior Boundaries T. 7. S. R. 31. E.

Chains. Marked with 3 notches on  
 N and S. faces, and raised a  
 mound of stone 2 ft high  
 and 4 1/2 ft base, alongside  
 Pits impracticable  
 Land broken and rolling  
 Soil gravelly 3<sup>d</sup> rate  
 No timber

July 14. 1891.

## Exterior Boundaries T. 7. S. R. 31. E.

- chains North bet. Secs 13. and 18.  
 Va.  $12^{\circ}30' E$
- 3.20 Gulch 10 links wide Course E  
 6.60 Top of ridge Course E and W.  
 11.90 Wash 1.00<sup>chs</sup><sub>N</sub> wide Course E  
 40.00 Set a porphyry stone 20x9x8  
 ins. 15 ins in the ground for  
 1/4 Sec. Cor. Marked 1/4 on W  
 face, and raised a mound of  
 stones 1 1/2 ft high. 2 ft. base  
 alongside. Pits impracticable
- 41.20 Gulch 10 lks wide Course E.  
 47.30 Gulch 20 lks wide Course E.  
 62.40 Gulch 10 lks wide Course E.  
 73.40 Wash 1.40 chs wide Course E  
 80.00 Set a granite stone 28x8x7 ins  
 21 ins in the ground for Cor.  
 to Secs. 13. 18. 17 and 12 with  
 2 notches on N. and 4 notches

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Exterior Boundaries T. 7. S. R. 3. E.

chains on S faces. and raised a  
mound of stone 2 ft high  
4 1/2 ft base alongside  
Pit's impracticable  
Land broken and rolling  
Soil gravelly 3<sup>d</sup> rate  
No timber

## Exterior Boundaries T. 7 S. R. 31 E.

Chains North bet Secs. 7, and 12.

Va.  $12^{\circ} 30' E$

- 14.60 Gulch 3 lks wide, Course E.
- 23.00 Wash. 1.00 ~~4~~<sup>11</sup> chains wide Course E.
- 40.00 Set a Volcanic Stone 18x12x6  
ins. 14 ins in the ground  
for  $\frac{1}{4}$  Sec. Cor. Marked  $\frac{1}{4}$  on  
W face, and raised a mound  
of Stone  $1\frac{1}{2}$  ft high 2 ft base  
alongside. Pits impracticable
- 59.80 Wash 90 lks wide Course E
- 63.75 Gulch 5 lks wide Course S.E.
- 71.10 Top of ridge Course E. and W.
- 80.00 Set a Volcanic Stone 22x10x8  
ins. 17 ins in the ground. for  
Cor to Secs. 1, 6, 7 and 12  
with 1 Notch on N. and 5  
Notches on S faces, and raised  
a mound of Stone 2 ft high  
 $4\frac{1}{2}$  ft. base alongside

Exterior Boundaries T. 7. S. R. 31. E.

chains Pits, impracticable.

Land broken and rolling

Soil rocky. 4<sup>th</sup> natl

No timber

## Exterior Boundaries T. 7 S. R. 31 E.

Chain North bet Secs. 1 and 6.

Var.  $12^{\circ} 31' E$ 

- 1.70 Gulch 20 lks wide Course N.E.
- 9.00 Wash 70 lks wide Course S.E.
- 40.00 Set a volcanic Stone  $24 \times 15 \times 6$  ins  
18 ins in the ground. for  $\frac{1}{4}$   
Sec. Cor. Marked  $\frac{1}{4}$  on W face  
and raised a mound of Stone  
 $1\frac{1}{2}$  ft high. 2 ft base  
Alongside. Pits, impracticable
- 62.00 Wash 100 lks wide Course N.E.
- 64.00 Wash 60 lks wide Course E
- 78.10 Gulch 5 lks wide Course E
- 80.00 Set a Post  $4\frac{1}{2}$  ft long 4 ins  
Square. for Cor. to Tps 6 and  
7 S. Rs 30 and 31 E. Marked  
T. 6 S. Sec 31. on N.E.  
R 31 E Sec. 6. on S.E.  
T. 7 S Sec 1 on S.W.  
R. 30 E. Sec. 36 on N.W. faces

## Exterior Boundaries I. 7. S. R. 31. E.

Chains with 6 notches on each edge, and raised a mound of stone  $2\frac{1}{2}$  ft high. 5 ft base around post.

Pits impracticable.

Land, rough and broken  
Soil rocky 4<sup>th</sup> rate  
No timber

July 15, 1891.

## Exterior Boundaries T. 7 S. R. 31 E.

chains From the Cor. to Sp 6 and 7  
S. Rs. 30 and 31 E. I run  
east on a random line  
between said townships.

Variation  $12^{\circ}30' E$ . I set  
temporary half mile and  
mile Corners, at each 40,  
and 80. Chains, and find the  
township line to be .5 miles  
78 chains, and twenty (20) links  
long, and the falling to be  
15 links N. of the Cor. to  
Sp 6 and 7 S. Rs. 31 and 32 E.

The Correction for the true  
line will therefore be  $2\frac{1}{2}$   
South and 1.80 chs West per  
mile, and its Course will  
be  $N 89^{\circ}59' W$ .

From the Cor to Sp 6 and 7 S

## Exterior Boundaries T. 7. S. R. 31 E

chains Rs. 31 and 32 E which is  
 a post 4 in. square  
 marked T. 6. S. Sec. 31 on N.E.  
 R 32 E Sec 6. on S.E.  
 T. 7. S. Sec. 1 on S.W. and  
 R 31 E Sec. 36 on N.W. faces  
 with 6 notches on each edge  
 and mound of stone around post.  
 Thence I run  
 N 89° 59' W on a true line  
 bet Secs. 1 and 36.  
 Var. 12° 30' E

40.00 Set a limestone 20 x 8 x 4  
 ins. 15 ins in the ground,  
 for 1/4 Sec Cor. Marked 1/4  
 on N face. and raised a  
 mound of stone 1 1/2 ft  
 high 3 1/2 ft base alongside  
 Pits impracticable

## Exterior Boundaries T. 7. S. R. 31. E.

Chains

- 42.70 Wash 45 lks wide Course S.W.  
 63.20 Top of Ridge Course S.W. and N.E.  
 66.10 Wash 10 lks wide Course S.W.  
 72.30 Top of ridge Course S.W. and N.E.  
 80.00 Set a limestone 20x9x4  
 ins. 15 ins in the ground.  
 for Cor to Secs 1, 2, 35 and 36.  
 Marked with 1 notch on E.  
 and 5 notches on W. faces  
 and raised a mound of  
 stone 2 ft high, 4 1/2 ft base,  
 alongside. Pits impracticable  
 Labeled broken and hilly.  
 Soil Gravel. 3<sup>d</sup> rate.  
 No timber.

July 16, 1891

## Exterior Boundaries T. 7. S. R. 31 E

- Chains N 89° 59' W on a true line  
bet Secs. 2<sup>nd</sup> and 35.  
Va. 14° 29' E
- 20.60 Wash 45 lks wide Course S.W.  
22.10 Top of ridge running SW<sup>nd</sup> NE.  
40.00 Set a limestone 16x14x10 ins  
12 ins in the ground, for  
1/4 Sec Cor. Marked 1/4 on N  
face, and raised a mound  
of Stone 1 1/2 ft high. 3 1/2 ft  
base, alongside. Pits impracticable
- 66.00 Wash 10 lks wide. Course S.W.  
70.00 Top of ridge, running SW<sup>nd</sup> NE.  
80.00 Set a limestone 18x6x6  
ins. 12 ins in the ground  
for Cor. to Secs 2, 3, 34, and 35.  
with 2 notches on E. and  
4 notches on W faces, and  
raised a mound of Stone

## Exterior Boundaries T. 7. S. R. 31. E.

chs. 2 ft high.  $4\frac{1}{2}$  ft base  
alongside. Pits impracticable  
Land slightly undulating  
Soil sand and gravel. 2<sup>d</sup> rate  
No timber

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Exterior Boundaries T. 7. S. R. 31. E.

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Chains N  $89^{\circ}59'W$  on a true line  
bet Secs. 3 and 34.

Va.  $12^{\circ}30'E$

40.00 Set a lime stone  $18 \times 10 \times 4$   
ins. 12 ins in the ground,  
for  $\frac{1}{4}$  Sec Cor. Marked  $\frac{1}{4}$  on  
N. face. and raised a Mound  
of Stone  $1\frac{1}{2}$  ft high  $3\frac{1}{2}$  ft  
base. alongside Pit impracticable

69.40 Wash 15 lks wide Course S.W.

74.10 Top of ridge Course South

80.00 Set a black granite  $36 \times 12 \times 10$   
ins. 27 ins in the ground  
for Cor to Secs 3. 4. 33 and 34  
Marked with 3 matches on  
E and W edges, and raised  
a mound of Stone 2 ft high  
 $4\frac{1}{2}$  ft base alongside  
Pit impracticable

Exterior Boundaries T. 7. S. R. 31. E.

Chains	Land Nearly level. Soil Sandy loam. No timber.
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Exterior Boundaries T. 7. S. R. 31. E.

Chain, N 89° 59' 27" on a true line  
bet Secs. 4 and 33.

Va. 12° 30' E

Over level land

40.00 Set a granite stone 16x10x5  
ins. 11 ins in the ground  
for 1/4 Sec. Cor. Marked 1/4 on N  
face. dug pits 18x18x12 ins  
E and W of stone 5 1/2 ft dist  
and raised a mound of earth  
1 1/2 ft high 3 1/2 ft. base  
along side.

80.00 Set a post 4 1/2 ft long, 4 ins  
square, with marked stone  
12 ins in the ground. for Cor.  
to Secs. 4, 5, 32, and 33. Marked  
T. 6. S. Sec. 33. on N.E.  
R 31 E Sec 4 on S E  
T. 7. S. Sec 5 on S W and  
Sec. 32 on N. W. faces

## Exterior Boundaries I. 7. S. R. 31. E.

chs. with 4 notches on E. and  
2 notches on W edges.

dug pits 18X18X12 ins.  
in each sec.  $3\frac{1}{2}$  ft. dist.  
and raised a mound of  
earth 2 ft high  $4\frac{1}{2}$  ft.  
base, around post.

Land level.

Soil sandy loam, 1<sup>st</sup> rate  
Timber, scattering Mesquite

July 17. 1891

## Exterior Boundaries T. 7. S. R. 31. E

- Chs. N 89° 59' W on a true line  
 bet Secs. 5 and 32.  
 3400 <sup>6.15</sup> Set a post. <sup>Wagon road. Course N 75° E Duncan to Clifton</sup> 4 ft long, 4 ins  
 Square. 12 ins in the ground  
 for Witness Cor. to 1/4 Sec Cor.  
 Marked 1/4 S. W.C. on N  
 face, dug pits 18x18x12 ins.  
 E and W 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.
- 34.40 Right bank of the Gila  
 River Set a post. 4 ft long  
 4 ins. Square. with marked  
 Stone 12 ins. in the ground  
 for meander Cor. to fract-  
 ional Secs. 5 and 32. Marking  
 W.C. on W. face R. 31. E Sec  
 32. on N. T. 7. S. Sec 5 on S

## Exterior Boundaries T. 7. S. R. 31. E

Chs dug pit 3 ft square. 12 ins deep. 8 lks east of post, and raised a mound of earth 2 ft high. 4 1/2 ft. base. around post.

4640 Left bank of the Gila River. Set a post 4 ft long. 4 ins. square. with marked stone 12 ins in the ground. for Meander Cor. to fractional Secs. 5 and 32. Marked M.C. on E face. R 31. Sec. 32 on N. T. 7. S. Sec. 5. on S faces

53.90 Center of Arizona and New Mexico Railroad. Course N. 41. S.

59.40 Wash 25 lks wide Course S. E.

68.10 Top of ridge running N. 41. S.

80.00 Set a granite stone

## Exteriors Boundaries T. 7. S. R. 31 E

chs. 16x10x5 ins. 11 ins in  
 the ground for. Cor to  
 Secs. 5, 6, 31<sup>and</sup> 32. Marked  
 with 5 notches on E. and  
 1 notch on W edges, and  
 raised a mound of stone  
 2 ft high. 4 1/2 ft base  
 along side. Pits impracticable  
 Land. Nearly level  
 Soil. Sandy loam.  
 Scattering mesquite

## Exterior Boundary T. 7 S. R. 31 E.

chs. N 89° 59' W on a true line  
bet Secs. 6<sup>th</sup> and 31.

Va. 12°, 30' E

- 3.10 Wash 25 lks wide Course N.E.  
 6.15 Top of ridge running N.E. + S.W.  
 11.05 Wash 10 lks wide Course N.E.  
 20.15 Top of ridge running N.E. + S.W.  
 29.00 Wash 10. lks wide. Course N.E.  
 40.00 Set a lava Stone 18x10x4  
 ins. 12 ins in the ground  
 for 1/4 sec. Cor. Marked 1/4 on  
 N. face, and raised a mound  
 of Stone 1 1/2 ft high. 3 1/2  
 ft base alongside. Pits  
 impracticable
- 52.10 Top of ridge, running N.E. + S.W.  
 55.80 Wash. 10 lks wide Course N.E.  
 59.00 Top of ridge running N.E. + S.W.  
 61.10 Gulch 5 lks wide Course N.E.

# Exterior Boundaries T. 7. S. R. 31 E

chs.

- 63.60 Top of ridge running North & S.  
 68.40 Wash 20 lks wide Course North  
 78.20 The Cor. to Spcs 6 and 7, S.  
 Rs. 30 and 31, East.

Land hilly and broken  
 Soil. gravelly & rocky  
 No timber

July 18, 1891

U. S. Surveyor-General's Office,

TUCSON, A. T., *Sept. 18<sup>th</sup>* 1889

The foregoing Field Notes of the Surveys of  
the Exterior lines of T<sup>h</sup>  
y South Range 31. East.

Gila and Salt River Meridian  
in *Arizona* executed by  
*Daniel Drummond*

U. S. Deputy Surveyor, under his contract dated  
*May 29<sup>th</sup> 1891*  
having been critically examined, the necessary correc-  
tions and explanations made, the said Field Notes and  
the surveys they describe are hereby approved.

*Raylet Johnson*

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