

DEC 27. 1890

129.

1855  
Book "A"  
**FIELD NOTES**

BOOK 1855

*RE-*  
OF THE SURVEY OF THE

*East and South Boundaries*

*- of -*

*T. 18 S. R. 16 E.*

**1855**  
-1855-

*of the Gila & Salt Rivers Meridian,*

AS SURVEYED BY

*Philip Conzen*, United States Deputy Surveyor,

Under his Contract No. 115, dated March 15<sup>th</sup>, 1890

Survey commenced July 2<sup>nd</sup>, 1890

Survey completed July 28<sup>th</sup>, 1890

John M. Trapp, chairman  
H. W. Higgins, chairman  
A. A. Wright, roundman  
Manuel Salazar, roundman  
Charles M. Pague, axeman  
Tom Jones, axeman  
Arthur Pague, flagman

WE, John M. Frazer and Harry W. Haggard,

do solemnly swear that we will well and faithfully execute the duties of chainmen; 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 distances 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

East and South boundaries of T. 18 S. R. 16 E

John M. Frazer, Chainman.

Harry W. Haggard, Chainman.

Subscribed and sworn to before me this 20<sup>th</sup> day of July, 1804



H. G. Power

NOTARY PUBLIC,  
PIMA COUNTY, ARIZONA

MY COMMISSION EXPIRES

April 27<sup>th</sup> 1908

WE, A. R. Lyght and Manuel Salazar

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

East and South boundaries of T. 18 S. R. 16 E

A. R. Lyght, Moundman.

Manuel Salazar, Moundman.

Subscribed and sworn to before me this 20<sup>th</sup> day of July, 1804



H. G. Power

NOTARY PUBLIC,  
PIMA COUNTY, ARIZONA

MY COMMISSION EXPIRES

April 27<sup>th</sup> 1908

WE, Chas. M. Pague and Tom Jones

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

East and South boundaries of T. 18 S. R. 16 E

Chas. M. Pague, Axman.

Tom Jones, Axman.

Subscribed and sworn to before me this 20<sup>th</sup> day of July, 1804



H. G. Power

NOTARY PUBLIC,  
PIMA COUNTY, ARIZONA

MY COMMISSION EXPIRES

April 27<sup>th</sup> 1908

I, Arthur Pague, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the re-survey of the East and South boundaries of T. 18 S. R. 16 E

Arthur Pague, Flagman.

Subscribed and sworn to before me this 21<sup>st</sup> day of July, 1804



H. G. Power

NOTARY PUBLIC,  
PIMA COUNTY, ARIZONA

MY COMMISSION EXPIRES

April 27<sup>th</sup> 1908

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BOOK 1855

## INDEX DIAGRAM.

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Meanders Page

Chains

For the purpose of testing the measurement and alignment of the E. and S. bds. of this Sp., which from previous knowledge derived from private surveys & known to be correct, & referred to the cor. of Sp's. 17 and 18 S., R's. 16 and 17 E., which is a stone marked and witnessed, as described by the surveyor general, which & changes to cor. of Sp's. 17 and 18 S. 16 17 E., destroying all traces of the old cor. Re-establish old cor. as follows:

Set a sandstone,  $18 \times 8 \times 8$  ins. in the ground for cor. of Sp's. 17 and 18 S., R. 17 E., marked with 6 notches on N. and S. edges, from which

A mason's line, 18 ins. chain, bars N.  $22\frac{1}{2}$  E., 2 1/4 lbs. dist., marked S 17 S R 17 E S 3 1/3 B S.

A prismatic, 8 ins. chain, bars S. 6° E., 1 1/2 lbs. dist., marked S 18 S R 17 E S 1/3 B S.; and raise a mound of stone, 3 ft. base, 1 1/2 ft. high, E. of cor.

A mason's line and compass running the E. body of S. 18 S., R. 16 E. Survey commenced July 24, 1904, and executed with a Young and Son's light quadrant transit No. 5607, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to eight minutes arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined, tested on the true meridian at Phoenix, found correct, and was approved by the surveyor general for Arizona, June 10, 1904.

Examining the adjustments of the transit and correct the level and collimation errors, then, to test the solar apparatus, by comparing its indications, resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, & proceed as follows:

At the above described Sp. cor. Latitude  $31^{\circ} 54' N.$   
Longitude  $110^{\circ} 38' 46'' W.$ ; & set off  $31^{\circ} 54' N.$  on the lat. arc,  $19^{\circ} 59' 37''$  on the elev. arc, and at  $3^{\text{h}} 00' 00''$  p.m., l.m.t. determine with the solar meridian and mark a point thereof, on a stone firmly set in the ground, 5 chs. N. of the cor.  
At  $11^{\text{h}} 10' 00''$  p.m., l.m.t., by my watch, which is correct, & observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground, 5 chs. N. of my station.

July 24, 1904.

## Bironway of the E. bdy of S. 18 S. R. 16 E.

BOOK 1855

Shares	<p>only 25: At <math>6^{\text{h}} 51^{\text{m}}</math> a.m., l.m.t., I lay off the azimuth of Polaris, <math>8^{\circ} 25'</math> to the west and mark the meridian thus determined by cutting a small groove in the stone set July 24, on which the meridian falls <math>0.3</math> m. east of the mark so determined by the solar.</p> <p>At <math>7^{\text{h}} 15^{\text{m}}</math> a.m., l.m.t., I set off <math>310^{\circ} 54' \text{ Pnw}</math> the lat. arc <math>19^{\circ} 42'</math> from the decl. arc. and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station. This mark falls <math>0.3</math> m. west of the meridian established by the Polaris observation.</p> <p>3 hr. solar apparatus, by p.v. and a.m. observations, defines positions for meridians, respectively about <math>0^{\circ} 76'</math> east and <math>0^{\circ} 16'</math> west of the meridian established by the Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory.</p> <p>The magnetic bearing of the true meridian at <math>8^{\text{h}} 00^{\text{m}}</math> a.m., is N. <math>12^{\circ} 45' \text{ W.}</math>; the angle thus determined gives the mag. decl. <math>12^{\circ} 45' \text{ S.}</math></p>
see page 2 supplements notes for the mill	<p>From the S.W. cor. the old <math>\frac{1}{4}</math> sec. cor. bears S. <math>0^{\circ} 12' \text{ E.}</math></p> <p>Therefore S. <math>0^{\circ} 12' \text{ E.}</math></p> <p>S. <math>0^{\circ} 12' \text{ E.}</math>, S. 18 S., R. 17 E.</p> <p>Over mountainous land, descending.</p>
2.60	Gulch, 30 lbs. wide, course Westerly; ascend.
15.50	Bridge, 175 ft. above gulch, bears N. Westerly and S. Easterly; thence along N. slope.
21.00	Descend.
26.00	Gulch, 175 ft. below top of ridge, 15 lbs. wide, course N. Westerly; ascend.
31.11	Slope, 120 ft. above gulch, extending N. Westerly; descend.
36.00	Gulch 20 lbs. wide, course N. Westerly; ascend.
39.48	Old $\frac{1}{4}$ sec. cor., which is a stone and scattered mound of stone.
41	To establish cor. at same point as follows:
41.11	Remark stone and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
41.11	E. of cor. Its impracticable!
41.11	From this cor. old sec. cor. bears S. $0^{\circ} 12' \text{ E.}$
41.11	Therefore S. $0^{\circ} 12' \text{ E.}$
41.11	N. slope of mountain; thence bears 3 chs. E.; descend.
41.11	Gulch, 175 ft. below top of slope, 20 lbs. wide, course Westerly; ascend.
41.11	Slope, 175 ft. above gulch, extending Westerly; descend.

Cham

31.711

Gulch, 75 ft. below top of slope, 15 chl. wide, environs N. N. Wisterly; ascend!

39.411

Old sec. ev., which is a dragg'd frost lying on the ground, with marks obliterated. Reestablish ev. at same point for ev. of sec. 6 and 7, S. 18 S., R. 17 E., as follows:

OK

Set a quartzite stone,  $2\frac{1}{2} \times 1\frac{1}{2} \times 10$  ins., 15 ins. in the ground, marked with 1 notch on N. and 5 notches on S. edge, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, E. of ev. Bits impracticable.

Land, mountainous.  
Soil, gravelly and stony; 3rd. and 4th natr.

3 miles, scattering mesquites.

Mesquines land, 78.88 chs.

From the above ev. old  $\frac{1}{4}$  sec. ev. bears S.

Therefor S run

S. W. bdy. of sec.

Over mountainous land, ascending.

$\frac{3}{4}$  pt. of W. slope of mountain, descend over quartzite ledges.

Enter valley, bears N. N. W. and S. S. E.

Descent abruptly 50 ft.; enter gulch, environs N. N. Wisterly.

Leave gulch.

see page 3  
supplemental  
notes for this  
mill

9.111

Old  $\frac{1}{4}$  sec. ev., which is a quartzite and scattered mound of stone. Reestablish ev. at same point as follows:

OK

Remark stone not  $\frac{1}{4}$  in. E. face, and rebuild mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high E. of ev. Bits impracticable.

From this ev. old sec. ev. bears S.

Therefor S run S.

15.80

Gulch, 15 chl. wide, environs N. N. Wisterly; leave valley and descend along W. slope of mountain.

21.51

Bluff 60 ft. high.

31.51

$\frac{3}{4}$  pt. of slope, 300 ft. above gulch, descend over quartzite bluffs.

37.04

Gulch, 1711 below top of slope, 15 chl. wide, environs W.; ascend.

39.95

Old sec. ev., which is a quartzite stone and a scattered mound of stone; reestablish ev. at same point for ev. of secs. 7 and 18, S. 18 S., R. 17 E., as follows:

OK

Remark stone, with 2 notches on N. and 4 notches on S. edge, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high E. of ev. Bits impracticable.

Land, mountainous and hilly.

Soil, gravelly loam, stony and rocky; and, 3rd. and 4th natr.

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Survey of the E. bdy of S 18 S 16 E

BOOK

B. Vans

1855

	Timber, a few incisives.
	Mountainous land, 46.53 chs.
July 25:	At this m. I set off 19:38' N. on the elev. arch, and at 12 <sup>h</sup> 57 <sup>m</sup> N. m. t., observe the sun on that meridian. The resulting lat. is 31° 52' N or within 1' of the former lat.
	From the cov. old & sre. cov. trees S.
	Therefore ♀ run
	S. on W. bdy. of S 18.
	Over mountainous land descending.
.51	Gulch, 15 lbs. wide, courses N. N. W. Westerly.
13.60	S/nw, 130 ft. above gulch, extending Westerly; discerned.
19.30	Deep gulch, 200 ft. below top of S/nw, 211 lbs. wide, courses Westerly; discerned.
27.31	Bluff 60 ft. high.
31.01	S/nw, 300 ft. above gulch, extending Westerly; discerned.
39.58	Old & sre. cov. which is a storm and scattered mound of stone. Re-establish cov. at point as follows:
	Remark storm & on E. face and rebuild mound 2 ft. base, 1½ ft. high, E. of cov. Bits impracticable!
	From this cov. old & sre. cov. trees S.
	Therefore ♀ run S.
.9.11	Ridge, cov. N. W. and S. E.; discerned.
16.91	Shaft, 115 lbs. N.
25.50	Gulch, 100 ft. below ridge, 20 lbs. wide, courses S. Easterly; discerned.
34.51	Side of E. slope of ridge, 151 ft. above gulch; discerned.
37.71	Dense bluff 50 ft. high
39.40	Old sre. cov. which is a decayed post lying on the ground. Re-establish cov. at same point as follows, for cov. of sre. 18 and 19, S 18 S. R. 17 E.
	Set a limestone, 18 x 14 x 5 ins., 12 ins. in the ground, marked with 3 wedges on N. and S. edges; and raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cov. Bits impracticable.
	Land, mountainous.
	Soil, stony and rocky; 4 th rate.
	Timber, a few incisives and laurel; midgrowth, laurel and oak.
	Mountainous land, 73.98 chs.

From the above cov. old & sre. cov. trees S.

Therefore ♀ run

Cham.

- S. on W. body of sec. 19.  
Over mountainous land, descending.
- 9.00 On p. gutch, 15 ft. below cov., 15 lbs. wide, course W.; ascend  
S. of N.W. slope ridge; descend.
- 30.20 Gutch, 15 ft. below slope of ridge, 20 lbs. wide, course N.; ascend  
S. of ridge, bears N.E. and S.W.; timer along E. slope!
- 38.80 Old sec. cov. which is a decayed frost with marks obliterated.  
Reestablish cov. at same point as follows:  
Set a sandstone,  $18 \times 10 \times 6$  ins., 12 ins. in the ground, marked  $\frac{1}{2}$  on  
E. face; and raise or mound of stone, 2 ft. base,  $\frac{1}{2}$  ft. high, E. of  
cov. Bits impracticable!  
From this cov. old sec. cov. bears S.  
Therefore S now S.
- 6.00 Descend.
- 9.00 Enter dense moss into undergrowth, bears E. and W.  
Enter cedar timber, bears E. and W.
- 18.11 Gutch, 30 lbs. wide, course Westerly; ascend.
- 26.50 Ridge, 100 ft. above gutch, bears N.W. and S.E.; descend.
- 31.20 Gutch, 20 lbs. wide, course Westerly; ascend. Bear dense brush.
- 38.80 Old sec. cov. which is a decayed frost.  
Reestablish cov. at same point for cov. of secs. 19 and 30,  
S. 18 S., R. 17 E., as follows:  
Set a sandstone,  $18 \times 8 \times 6$  ins., 12 ins. in the ground, marked  
with 4 notches on N. and 2 notches on S. ridge; from which  
A mossy tree, 12 ins. diam., bears N.  $49\frac{3}{4}^{\circ}$  E., 227 lbs. dist.,  
marked S. 18 S., R. 17 E. S. 19 $\frac{1}{2}$  S.; no other tree within limit,  
and raise or mound of stone 2 ft. base,  $\frac{1}{2}$  ft. high, E. of cov.  
Ground, mountainous.
- Soil, gravelly humus and stony; 2nd, 3rd and 4th rate.  
Timber, cedar and scattering mossy; undergrowth, mossy,  
palmetto, and earth.
- Mountainous or land covered with dense undergrowth, 78.18 chs.
- July 25, 1904.
- July 26: At 7<sup>h</sup> 20<sup>m</sup> a.m., l.m.t., Port off 31° 51' N. on the  
lat. arc.  $18^{\circ} 29' 37''$  on the elev. arc; and determine a  
meridian with the solar at the cov. of secs. 19 and 30.  
From this cov. old sec. cov. bears S.  
Therefore S now S.  
S. on W. body of sec. 30.  
Over mountainous land ascending.

Resurvey of the E. body of S. 18 S., R. 16 E.

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BOOK 1855

	Chain 9.11	Slope of E. slope of ridge; ascends through scattering cedar sand and mesquite timber.
	36.41	Dry wash, 250 ft. below slope; 4" tho. wash, eroded WNWly; ascends.
	39.50	Old & sec. ev. point determined from old bearing trees. Reestablish ev. at same point as follows:
	39.50	Set a purplehyd stone 18 x 10 x 6 ins., 12 ins. in the ground, marked $\frac{1}{4}$ in E. face, from which
		A cedar, 8 ins. diam., bears S. $134^{\circ} E.$ , 74 lbs dist., marked $\frac{1}{4}$ S. 38 B. S.
		A cedar, 8 ins. diam., bears S. $46^{\circ} E.$ , 125 lbs. dist., marked $\frac{1}{4}$ S. 38 B. S.; and raised a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, E. of ev.
		From this ev. old sec. ev. bears S.
		Therefrom S. run S
	2.10	8 fm, extruding N. W.; ascends.
	4.71	Dry wash, 30 lbs. wash, eroded N. WNWly; ascends.
	39.65	Old sec. ev. which is <sup>old</sup> just lying on the ground. Reestablish ev. at same point for ev. of sec. 31, and 31, S. 18 S., R. 17 E.; as follows:
	39.65	Set a purplehyd stone, 24, 12 x 4, 15 ins. in the ground, marked $\frac{1}{4}$ in 6 notches on N. and Y notch on S. edge, from which
		A cedar, old B. S. which I mark 24 ins. diam., bears N. $83^{\circ} E.$ , 38 lbs. dist., marked S. 18 S. R. 17 E. S. 38 B. S.
		A cedar, old B. S. 24 ins. diam., bears S. $71^{\circ} E.$ , 168 lbs. dist., marked S. 18 S. R. 17 E. S. 38 B. S.; and raised a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, E. of ev.
		Ground, mountainous.
		Silt, generally brown and stony; 2nd, 3rd, and 4th notches.
		Timber, scattering cedar, mesquite and buckbrush; undergrowth, mesquite, trash, gravelly and earth.
		Mountainous land, 79.15 elev.
		This ev stands 250 ft. above gulch.
		From the above ev. old & sec. ev. bears S.
		Therefrom S. run
		S. on W. body of sec. 31.
		Over mountainous land, ascending, through scattering cedar timber and brush.
	13.11	Cedar cedar and brush, bear E. and W.
	15.11	Ridge, 100 ft. above ev, bears E. and W.; ascends.
	32.11	Slope, 120 ft. below ridge, in the draw, eroded SWNWly.

Chain

- 39.62 Old  $\frac{1}{4}$  sec. w. which is a decayed stake lying on the ground, with marks obliterated. Re-establish cov. at same point as follows:  
 Set a sandstone,  $18 \times 10 \times 6$  ins., 10 ins. in the ground, for  $\frac{1}{4}$  sec. cov. marked  $\frac{1}{4}$  on E. face; and raise a mound of stone, 2 ft. high,  $\frac{1}{2}$  ft. high, E. of cov.  
 From this cov. old 31. cov. bears  $80^{\circ} 55' E.$   
 Surveyor's mark  $80^{\circ} 55' E.$
- 6.00 L. road draw, course E. S. E. Easitly, ascending through scattering oak.  
 24.00 Bridge, 100 ft. above draw, draw rock, obscured.  
 34.00 Draw, 140 ft. below, course S. S. E.  
 39.00 Old 31. cov. which is a decayed post lying on the ground. Re-establish cov. at same point as follows:  
 Set a small grain stone,  $18 \times 8 \times 8$  ins., 12 ins. in the ground, for cov. 31. sec. 18 and 19 S., R. 16 and 17 E., marked with 6 matches on each edge; and raise a mound of stone, 3 ft. high, 2 ft. high, S. of cov. Ground, mountainous and bare.  
 Soil, gravelly loam and stony, 2nd and 4th rate.  
 Timber, scattering incognitae and oak, 1m. growth, numerous and each  
 Mountainous land, 46.00 ch.

July 26, 1914.

## Boundary of the S. edge of S. 18 S. 16 E.

July 27: At  $7^{\text{h}} 11^{\text{m}}$  A.M. l.m.t., set off  $31^{\circ} 49' \frac{1}{2}$  on the lat.  $19^{\circ} 15' \frac{1}{2}$  on the decl. side, and determined a true meridian with the solar at the cov. of 31st. 18 and 19 S., R. 16 and 17 E.

- From cov. old  $\frac{1}{4}$  sec. w. bears  $88^{\circ} 30' W.$   
 Surveyor's mark  
 $S. 88^{\circ} 30' W.$ , on the N. edge. of sec. 1, S. 19 S., R. 16 E.  
 Over mountainous land, ascending from draw.
- 2.50 Spur, extending S. E., obscured.  
 6.50 Draw, 60 ft. below spur, course S., ascending  
 11.00 Spur, 75 ft. above draw, extending S.  
 16.00 Descend  
 21.20 Draw, 75 ft. below spur, 60 ft. wide, course S., ascending.  
 24.00 Spur, 75 ft. above draw, bears N. and S.; obscured.  
 27.50 Draw, 60 ft. below spur, 1 ch. wide, course S. ascending.  
 33.00 Spur, 80 ft. above draw, extending S.; obscured.  
 40.37 Old decayed stake lying on ground. Re-establish cov. at

## Boundary of the S. body of S. 18 S. R. 16 E.

Chain ft. 12	sum point as follows: Set a granite stone, $18 \times 10 \times 8$ ins., $12$ ins. in the ground, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on S. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high S. of cor. From this cor. old sec. cor. bears N.
15	draw $8\frac{1}{2}$ ft. below S. of cor., 1 ch. wide, course S., ascend! S. of cor., bears N. and S., ascend.
17	Enter draw, course S. Easterly Dry wash, $4\frac{1}{2}$ chs. wide, course S. Easterly.
23.5	Gravel, gravel, and sand through scattering oak timber. Old sec. cor. which is a scattered mound of stone. Reestablish cor. at sum point as follows:
44.118	Set a sandstone, $18 \times 8 \times 6$ ins. in the ground, for cor. of sec. 1, width 2 $\frac{1}{2}$ , marked with 1 watch on E. and 3 watches on W. ridge, from which
	<del>An oak, 8 ins. diam., bears N. <math>6\frac{1}{2}</math> E., 111 chs. dist., marked S 18 S. R. 16 E. S 13 S.; no other trees within limit, and raise a mound of stone, 2 ft. base, <math>1\frac{1}{2}</math> ft. high, S. of cor.</del>
	An oak, 8 ins. diam., bears N. $6\frac{1}{2}$ E., 111 chs. dist., marked <del>S 18 S. R. 16 E. S 13 S.</del>
	An oak, 12 ins. diam., bears S $27$ E., 213 chs. dist., marked S 19 S. R. 16 E. S 13 S.; no other trees within limit, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S. of cor.
	L. mud, minnacious and level. Soil, gravelly loam and stony; 2nd, 3rd and 4th rates. Timber, scattering oak.
	Minnacious land, 63.45 chs.
	From the above cor. old $\frac{1}{4}$ sec. cor. bears N.
	Draw & run N. in the body of sec. 2., proceeding
5.11	S. of cor., bears N. and S., thinnest along N. Slop of ridge, one of two extending $\frac{1}{4}$ N. through scattering oak timber.
8.00	Old road, bears N. and S.
39.87	Old $\frac{1}{4}$ sec. cor. which is a scattered mound of stone. Reestablish cor. at sum point as follows:
	Set a sandstone, $18 \times 10 \times 8$ ins., $12$ ins. in the ground, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on S. face, from which
	An oak (old B S), 10 ins. diam., bears S. $22\frac{1}{2}$ E., 49 chs. dist., marked $\frac{1}{4}$ S 25 B S.
	<del>An oak (old B S), 10 ins. diam., bears N. <math>37\frac{1}{2}</math> W., 52 chs. dist., marked <math>\frac{1}{4}</math> S 25 B S.; and raise a mound of stone, 2 ft. base, <math>1\frac{1}{2}</math> ft. high, S. of cor.</del>

Chains

From this ev. old/svc. ev. brars W.

Therefrom S run N.

39.67 Old svc. ev. which is a scattered mound of stony. Reestablish ev. at same limit as follows:

Set a sandstone,  $18 \times 12 \times 6$  ins,  $\frac{1}{2}$  ins in the ground, for ev. of svc. 2, and 3 35, marked with a notch on E. and 4 notches on W. ridge, from which

An oak, 11 ins. diam, brars S.  $13^{\circ} 45' W$ , 19" lbs. dist., marked S 19 S R 16 E S 3 3 3 S. in the tree within limit, and raise a mound of stony, 2 ft. base,  $\frac{1}{2}$  ft. high, S. of ev.

Soil, gravelly loam and sandy; and 3rd and 4th rate.

Timber, scattering oak.

Mimuntinous land, 79.54 chs.

July 27: At this ev. I set off  $19^{\circ} 12' W$  on the decl. face, and at  $12^{\circ} 6' N$ . m. t. observe the sun on the meridian, the resulting lat. is  $31^{\circ} 49' N$  or within of the proper lat.

X From the above ev. old & svc. ev. brars W.

Therefrom S run

R. side S. bdy of S. 18 S.

Over mimuntinous land, obscuring through oak timber.

4.11 Small gash, exposed Northwly; ascended along N. slope of ridge over spurs extending Northerly

39.74 Old & svc. ev. which is a decayed root in a mound of stony.

Reestablish ev. at same limit as follows:

Set a sandstone,  $18 \times 12 \times 5$  ins,  $\frac{1}{2}$  ins in the ground, for  $\frac{1}{4}$  svc. ev. marked  $\frac{1}{4}$  on S. face, from which

An oak, 11 ins, brars S.  $60^{\circ} E$ , 114 lbs. dist., marked  $\frac{1}{4} S 3 3 S$ .

An oak, 10 ins. diam, brars S.  $21^{\circ} 45' W$ , 100 lbs. dist., marked  $\frac{1}{4} S 3 3 S$ .

and raise a mound of stony, 2 ft base,  $\frac{1}{2}$  ft. high, S. of ev.

From this ev. old svc. ev. brars W.

Therefrom S run W.

8.10 Large oak, brars N. W. and S. E.

11.44 Ridge, brars N. W. and S. E.; thrown over rolling land.

39.74 Old svc. ev. which is an old stake. Reestablish ev. at same limit as follows:

Set a sandstone,  $18 \times 12 \times 10$  ins,  $\frac{1}{2}$  ins in the ground, for ev. of svc. 3,  $\frac{1}{2}$  ins, marked with notches on E. and W. sides.

An oak, 11 ins. diam, brars S.  $88^{\circ} 45' E$ , 74 lbs. dist., marked

Chains

S 19 S R 16 S 3 B S; north limit, and raised  
rounded of stone, 2 ft. base, 1 1/2 ft. high, S. of ev.  
L. and, mountainous and rolling  
Soil, gravelly loam, and stony; 2nd, 3rd and 4th rate.  
Tinier, two  
Mountainous land, 67.74 ch.

From the above ev. old 1/4 sec. ev. bars W.

Therefore 8 mm

W. ext N. bdy. of sec 4.

Over mountainous land, along N. slope ridge, now 8 mm  
extending N. through scattering oak.

12.50 Dry wash, 15 lbs. wide, coarse N. water dress brush.

29.01 Draw, 60 lbs. wide, coarse N. over broken N. slopes.

39.62 Old 1/4 sec ev. which is a scattered mound of stone. Reestablish  
ev. at same point as follows:

Set a granite stem, 1.8 x 11 x 6 ins, 12 ins. in the ground, for 1/4  
sec marked 1/4 on S. face, from which

An oak, 10 ins. diam., bars S. 43 1/2 ° E., 55 lbs. dist., marked  
1/4 S 4 1/2 B S; 11 other trees within limit, and raised a mound  
of stone, 2 ft. high, 8 1/2 ins. ev. Bits impracticable.

From this ev. 1/4 sec. ev. bars W.

Therefore 8 mm W.

3.85 Dry wash, 10 lbs. wide, coarse N.

17.81 Dry wash, 10 lbs. wide, coarse N. over broken N. slope.

33.51 Draw, 10 lbs. wide, coarse N. over broken N. slope.

39.62 Old sec. ev. point determined from old bearing tree.

Reestablish ev. at same point as follows:

Set a sandstone, 1.8 x 11 x 8 ins, 12 ins. in the ground, for ev. of  
sec 4/4, and 5/3, marked with 4 matches on S. and 2 matches  
on N. ridge, from which an oak, 9 ins. diam., bars S 87 ° E.,  
181 lbs. dist., marked S 19 S R 16 S 4 1/2 B S; 11 other trees  
within limit, and raised a mound of stone, 2 ft. base, 1 1/2  
ft. high, 8 1/2 ins. ev. Bits impracticable.

L. and, mountainous.

Soil, gravelly loam, and stony; 2nd, 3rd and 4th rate.

Tinier, scattering oak, undergrowth, oak.

Mountainous, or land covered with dense undergrowth, 79.24 ch.

July 27, 1914.

July 28: At 7<sup>h</sup> 15<sup>m</sup> a.m., l.m.t., S set off 31° 49' now the

Claims

the last are. ~~19° 2' N~~  
~~19° 2' N~~ on the elev. are; and alternating  
 with a horizon with the elev. at the elev. of secs 4, 5,  
 32 and 33.

From this elev. old  $\frac{1}{4}$  sec. elev. bars ~~889° 50' W~~

Thurford Draw

889° 50' W. off N. Edg. of sec. 5.

Over mountainous land, along N. slope ridge, through  
 scattering oak timber and dense brush.

16.31 Dry wash, 11 lbs. wide, turns over spur of ridge, extending N.

22.00 Dry wash, 11 lbs. wide, turns N. over broken N. spur.

38.00 Brown, 11 lbs. wide, turns N. over broken N. spur.

38.64 Old  $\frac{1}{4}$  sec. elev. which is a decayed state lying on the ground.  
 Re-establish elev. at same point as follows:

Set a sandstone,  $18 \times 10 \times 4$  ins, 12 ins in the ground, for  $\frac{1}{4}$  sec. elev.  
 marked  $\frac{1}{4}$  on S. face from which

An oak, 11 ins. diam., bars S. 3° E., 141 lbs dist., marked  $\frac{1}{4}$  S 5 B 3.

An oak, 11 ins. diam., bars S. 15° W., 187 lbs. dist., marked  $\frac{1}{4}$  S. 5 B. 3.  
 and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, S. of elev.

From this elev. old sec. elev. bars ~~889° 50' W.~~

Thurford Draw ~~889° 50' W~~

36.30 Begin descent from slope of ridge; base of dense brush.

37.41 Enter Burnt canyon, course N. N. E. truly.

38.65 Confined in wash, determined by old S. A. course N.

41.15 Set a quartzite stone,  $18 \times 9 \times 8$  ins, for witness elev. to re-establish elev. of secs 5 and 6, marked W. 6, with 5 notches on S. and 1 notch on N. edge, from which

An oak, 10 ins. diam., bars S. 53° W., 73 lbs dist., marked  
 W. 6 S. 19 S. R. 16 E. S. 6 B. 3, no other tree within limit, and  
 raise a mound of stone, 3 ft. base, 2 ft. high, S. of elev. bits  
 infrangible.

Ground, mountainous.

Soil, gravelly loam and stony; 2nd, 3rd, and 4th rates.

Timber, scattering oak.

Mountainous soil, covered with dense undergrowth, 77.19 elev.

From the above on old  $\frac{1}{4}$  sec. elev. bars ~~889° 45' W~~

Thurford Draw

889° 45' W. on N. edge. of sec. 6, from elev. point.

In canyon, through scattering oak.

Round, bars N. and S.

250. Witness elev.

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6 hours

7 111 Draw canyon and as usual  
11111 S. side of ridge.

13.111 Drawn.

19.111 Bottom draw, S. S. E., and dry scrub brush.

35.111 Drawn, draw, and dry scrub brush; and as usual.

39.411 Old 8/11 cor. which is a decayed and scattered mound of stone.

Re-establish cor at same point as follows:

Set a granite stone, 18 x 12 x 5 ins, 12 ins in the ground, for 1/4 cor.  
cor. marked 1/4 on S face, from which

An outc., 6 ins diam, bears S. 67° E., 611 lbs dist., marked 1/8 103 S.  
and raise a mound of stone, 2 ft. base, 1/2 ft high, S. of cor.

From this cor. of old 8/11 cor. bears ~~S. 89° 45' W.~~

Show from S run ~~889° 45' W.~~

1111 Ridge, bears N. W., and S. E.; as usual.

5.500 Butte, 75 ft. below top of ridge, in this ridge, course S. East by  
west.

12.111 Ridge, 100 ft. above gable, bears N. W., and S. E.; as usual

17.111 Gable, 75 ft. below ridge, 10 lbs. wide, course S. E.; as usual.

23.111 S. side of ridge, 100 ft. above gable, as usual.

34.511 Gable, 75 ft. below top of slope of ridge; course S. E.; as usual.

39.46 Old 8/11 cor. which is a decayed stake lying on the ground. Rees-  
tablish cor. at same point as follows:

Set a granite stone, 18 x 10 x 8 ins, 12 ins. in the ground, for cor  
of 8/11 and 19 S, R. 15 and 16 S, marked with 6 notch on each

edge, from which

An outc., 12 ins. diam, bears S. 11° E., 323 lbs. dist., marked

8 19 S 16 16 S 8 6 13 S; An outc. 12 ins. diam, bears S 12 2' W., 326  
lbs. dist., marked 8 19 S 16 15 S 8 1 3 S; in three trees, and raised a  
3 ft. base, 2 1/2 ft. high, S. of cor.

Ground, mountainous.

Soil, gravelly loam and stony; 3rd and 4th natr.

Minor scattering oak and mesquite, undergrowth, mesquite and laund.  
Mountainous, or land covered with rocks in dragon north, 78.86 ch.

July 28, 1914.

Philip Conzea  
M. S. Deputy Surveyor.

For red ink corrections see deputy's letter of  
January 26, 1905, and May 10, 1905.

For 1/4 cor.  
see page 8  
dated Page 8

## FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

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BOOK 1855

## LIST OF NAMES.

A list of the names of the individuals employed by Philip Conzler, United States 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 and South boundaries of T. 18 S. R. 16 E showing the respective capacities in which they acted:

John M. Tracy, Chainman.  
J. W. Fluggins, Chainman.  
S. A. Lynght, Moundman.  
Manuel Salazar, Moundman.  
Chas. M. Pague, Axman.  
Tom Jones, Axman.  
Arthur Pague, Flagman.

## FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Philip Conzler,

United States Deputy Surveyor, in surveying all those parts or portions of the East and South boundaries of T. 18 S. R. 16 E

of the Lila of Salt River meridian, 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 United States Surveyor General for Arizona.

A. A. Lynght, Chainman.  
R. M. King, Chainman.  
Manuel Salazar, Moundman.  
Chas. M. Pague, Moundman.  
Tom Jones, Axman.  
Arthur Pague, Axman.  
Arthur Pague, Flagman.

Subscribed and sworn to before me this 17<sup>th</sup> day of December, 1894.



6-161

H. G. PowerNOTARY PUBLIC  
PIMA CO  
BY COMMISSIONERapril 27<sup>th</sup> 1908

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## FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

BOOK 1855

I, Philip Conzzen, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Frank A. Dugall, bearing date of the United States Surveyor General for Arizona, 15<sup>th</sup> day of March, 1904, I have well, faithfully, 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 East and South boundaries of T. 18 S. R. 16 E of the Gila and Salt River, meridian, in the Territory of Arizona, which 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 survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Arizona and in the specific manner described in the field notes, and that the foregoing are the original 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.

Philip Conzzen  
United States Deputy Surveyor.

Subscribed by said Philip Conzzen, and sworn to before me  
this 17<sup>th</sup> day of December, 1904

Clinton D. Hooper,  
Clerk U. S. District Court,  
First District of Arizona.

## APPROVAL.

## OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, 19 May 1<sup>st</sup> 1905

The foregoing field notes of the survey of the South and East boundaries of T. 18 S. R. 16 E., of the Gila and Salt River Base and Meridian, in the territory of Arizona

executed by Philip Conzzen, U.S. Deputy Surveyor under his contract No. 115, dated March 5, 1904, <sup>1904</sup>, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank A. Dugall  
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in \_\_\_\_\_, has been correctly copied from the original notes on file in this office.

United States Surveyor General.