

1804
FIELD NOTES

BOOK 1804

NE
OF THE SURVEY OF ~~THE~~^a

Portions of the West and the East Boundaries
of
Sunslist's No. 5 South Range No. 16 East

BOOK 1804

Of the Gila and Salt River Baseline Meridian,
In the Territory of Arizona

AS SURVEYED BY

Philip Cortezan, United States Deputy Surveyor,

Under his Contract No. 114, dated March 15, 1891

Survey commenced June 16, 1891

Survey completed June 20, 1891

1804

NAMES AND DUTIES OF ASSISTANTS.

Bernard Wright, Austin A. Gysight, chairman.
Chasly G. Aldridge, manumitter.
James Kerrick, axman.
Arthur Rogers, flagman.

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BOOK 1804
INDEX DIAGRAM.

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, Bernard Wright and Austin A Lyright
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 Portions of the West and the East boundary of S. 5 S., R. 16 E.

Bernard Wright, Chainman.
Austin A Lyright, Chainman.

Subscribed and sworn to before me this 16th
day of June, 1891904.



Philip Coutzen
U. S. Deputy Surveyor
(no notary available)

~~WE~~ I Chesley S Aldridge and
do solemnly swear that ~~we~~ I will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey of Portions of the West and the East boundary of S. 5 S., R. 16 E.

Chesley S Aldridge, Moundman.
Moundman.

Subscribed and sworn to before me this 16th
day of June, 1891904.



Philip Coutzen
U. S. Deputy Surveyor
(no notary available)

~~WE~~ I James Kerrick and
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~~ me, to the best of ~~my~~ my skill and ability, in the survey of Portions of the West and the East boundary of S. 5 S., R. 16 E.

James Kerrick, Axman.
Axman.

Subscribed and sworn to before me this 16th
day of June, 1891904.



Philip Coutzen
U. S. Deputy Surveyor
(no notary available)

I, Arthur Rague, 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 survey of Portions of the West and the East boundary of S. 5 S., R. 16 E.

Arthur Rague, Flagman.

Subscribed and sworn to before me this 16th
day of June, 1891904.



Philip Coutzen
U. S. Deputy Surveyor
(no notary available)

Prospect of the W. bdy. of T. 5 D. R. 16 E.

Journal

Having been instructed to commence the survey of S 4 S, R. 17 E, at the cor of Sps 4 and 5 S, Rs 16 and 17 E, and being unable to find said cor after several days search, therefore I proceeded to the San Pedro river where I interviewed some of the old settlers. Mr. Salbeck, who lives in the N. W. 1/4 of sec 31, S 5 S, R 16 E, pointed out to me the spot where the cor of secs 25, 30, 31 and 36 were stood. He claimed that was the only cor he had ever seen during a residence of twenty three years in the San Pedro Valley, and further stated that he never saw any cor east of his place and believed the township had never been subdivided. Therefore at this point I

Set a sandstone 18 x 8 x 6 ins, 12 ins in the ground, foot of secs 25, 30, 31 and 36, marked with 1 notch on S and 5 notches on N. edge, from which

A mosquito, 12 ins diam, bears N. 11° E, 320 lbs dist, marked S 5 S R 16 E S 30 B S; A mosquito, 10 ins diam, bears N 29 1/2° E, 268 lbs dist, marked S 5 S R 16 E S 30 B S.

A cottonwood, 30 ins diam, bears S. 8 1/2° E, 86 lbs dist, marked S 5 S R 16 E S 31 B S; a cottonwood, 24 ins diam, bears S 14° N, 90 lbs dist, marked S 5 S R 15 E S 36 B S.

At this cor June 16, 1904, at 4^h 30^m A.M., L.M.T., I set off ^{35057^m} on the bar arc, 23° 22' N on the arc arc, and determined meridian with the solar.

Shaded ground North bet secs 25 and 30.

Dare level land.

- 235 Saddle horse, bears 200 lbs E, near, bears N. W. & S. E. & S. E. & S. E.
- 320 Wire fence, bears E and W, enter corral.
- 555 Wire fence, bears E and W, bears corral and enter corral near, with undergrowth.
- 713 Rivet road line bears N 36 1/4° E and S 36 1/4° W.
- 1190 Dry wash, 15 lbs wide, course W. & S. E.
- 2065 Dry wash, 15 lbs wide, course W. & S. E.
- 2620 Dry wash, 20 lbs wide, course W. & S. E.
- 2915 Pond, bears N. W. & S. E. & S. E.
- 3935 Dry wash, 15 lbs wide, course W. & S. E.

Cor point determined by old bearing trees
Set a malpais stone, 20 x 12 x 10 ins, 12 ins in the ground, foot of secs 25, 30, 31 and 36, marked with 1 notch on S and 5 notches on N. edge, from which

Observations

- Over broad land.
- 07 Rice fence, bars E. and W. in the alfalfa field.
- 70 Salt water bars 2.00 chs E.
- 19.92 Rice fence, bars E. and W. bar field.
- 20.41 Same, bars E. and W.
- 20.90 Rice fence, bars E. and W. in the barley field.
- 24.87 Arroyo, running water, 6 lbs wide, course S. W.
- 29.40 Arroyo, running water, 6 lbs wide, course S. W.
- 32.22 Brush fence, bars E. and W. bar field and in the dense mesquite undergrowth.
- 32.90 Rice fence, bars N. N. W. and E. S. E.
- 34.15 Arroyo, 25 lbs wide, course W. S. W.
- 44.00 Falls in bed of San Pedro river, 150 lbs wide, course N. W. S. W.
- 46.70 The traces of old $\frac{1}{4}$ sec ev are found.
- 51.00 Set an ash post, 7 ft long, 4 ins sq, 2 ft in the ground, for markers ev to $\frac{1}{4}$ sec ev marked N 6 $\frac{1}{4}$ S 36 on N and 31 on E face; from which
 A mesquite 8 ins diam, bars S 72 E, 189 lbs dist, marked N 6 $\frac{1}{4}$ S 31 B S.
 A mesquite, 4 ins diam, bars S 42 W, 55 lbs dist, marked N 6 $\frac{1}{4}$ S 36 B S.
- 53.40 Rice fence, bars E. and W. bar dense undergrowth and in the field.
- 53.50 Same field; in the heavy mesquite timber and dense undergrowth, bar Easterly and Westerly.
- 64.00 Same heavy timber and dense undergrowth, bar Easterly and Westerly.
- 65.70 Same, bars 100 chs E.
- 67.00 Same, bars 5.00 chs E in the dense undergrowth.
- 68.00 Same, bars 5.00 chs E.
- 70.00 Road from Oriskanyville to Mammoth, bars N. N. E. and S. S. W.
- 73.05 Same road, bars N. N. W. and S. S. E.
- 78.00 Dry wash, 15 lbs wide, course Easterly.
- 79.00 After a diligent search and by the position of the old brass cross, I find the ev point of the standard ev of Sps 5, 8, 13 and 16 E, which I establish at same point as follows:
 Set a sandstone 20 x 12 x 6 ins, 15 in the ground for standard ev of Sps 5, 8, 13 and 16 E, marked S. W. with 2 screws on N. E. and W. faces, from which

6 chains

A maguinty 14 ins diam, bears N. 6° E, 68 lbs dist, marked
S 5 S R 16 C S 31 B B.

A maguinty, 15 ins diam, bears N. 37° W, 76 lbs dist, marked
S 5 S R 15 C S 36 B B.

Land, low.

Soil, sandy loam and sandy; 2nd and 3rd rate.

Timber, maguinty and scattering cottonwood and ash; under
growth, maguinty, tobacco, bechota and arrow weeds.

Remainly timbered, or land covered with dense mangrove
79.85 chs.

Philip C. C. C.
W. S. Deputy Surveyor.

Survey commenced June 18, 1904, and executed with a Young & Sons light quartz transit, No. 5609, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined, tested on the Town meridians at Phoenix, found correct, and was approved by the survey general for Arizona, June 10, 1904.

I examined 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 p.m. and p.m. hours; with a meridian determined by observations on Polaris, & found as follows:

At the standard cor of Sps 5 S, R 16 and 17 E, as heretofore described, latitude $31^{\circ} 57' N$; longitude $110^{\circ} 47' W$; I set off ~~$32^{\circ} 57' N$~~ ^{$32^{\circ} 57'$} on the lat arc, ~~$23^{\circ} 26' N$~~ ^{$23^{\circ} 26'$} on the decl arc; and, at $4^h 15^m$ p.m., l.m.t., determined with the solar apparatus, and mark a point in the solar stone firmly set in the ground, 5 chs N. of the cor
June 18, 1904

June 19: At $1^h 46^m$ a.m. by my watch, which is correct, I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the solar stone thus determined, on a peg driven in the ground, 5 chs N. of my station.

At $6:55$ a.m., l.m.t., I lay off the azimuth of Polaris $1^{\circ} 26'$ to the West, and mark the meridian thus determined, by cutting a small groove in the stone set June 18, on which the meridian falls 0.4 ins East of the mark determined by the solar. $32^{\circ} 57'$

At $7^h 30^m$ p.m., l.m.t., I set off $31^{\circ} 57' N$ on the lat arc, $23^{\circ} 26' N$ on 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 0.4 ins West of the meridian established by the Polaris observation.

The solar apparatus, by p.m. and p.m. observations, is found to be correct for meridians, and is correct about 0.2

Runway of the E. body of S 5 S, R 16 E.
Chassis

at 21 W of the meridian established by the previous observations, therefore concludes that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian, at 7^h 30^m AM, is N 14° 10' W; the angle thus determined gives the mag decl 14° 10' E.

Spring 3000
North, lat area 31 and 36

Over mountainous land, descending.

3000 Gulch, 150 ft below spring, on the road, course N. Easterly; begin steep ascent

3080 Top of mountain, 200 ft above gulch, bears N. Easterly and S. Westerly;

3090 Set a wooden stake, 18 x 10 x 8 ins, 12 ins in the ground, for witness on to a steel wire marked R 6 7 on N face, and raise a mound of stone 2 ft base, 1 1/2 ft high, N of wire. Site impracticable, and descend steep, very bluff.

4000 Falls on face of bluff.

5000 Gulch, 200 ft below wire, on the road, course S. Westerly; ascend along N. slope of mountain

7000 Top of slope, 400 ft above gulch; descend abruptly 200 ft

8000 Set a sandstone, 18 x 10 x 8 ins, 12 ins in the ground, for witness on to a steel wire marked R 6 8 on S face, and raise a mound of stone 2 ft base, 1 1/2 ft high, N of wire. Site impracticable.

Land, mountainous

Soil, gravelly, stony and rocky; soil and 4th water, drinks, producing gravel, undergrowth, gopher, badger, Spanish bayonet, amole, mesquite and cactus

Mountainous land, 8000 chs.

Note: Diligent search fails to find traces of old cars on this night

North, lat area 25 and 30

Over mountainous land, descending along N. slope of mountain

2300 Gulch, 150 ft below road, course N. Westerly

3000 Eskimizingal spring, 1000 ft below top of Black Mountain, on the road, course S. Westerly; ascend

3500 Eskimizingal spring and lower Cravint, bear S. E. about 25.00 chs dist

4000 Fail to discover any remains of old cars on

6500 *Set* a well laid stone, 20 x 14 x 10 ins, 15 ins in the ground for 4 sec ev marked 4 on N face; and parse a mound of stone 2 ft base, 1 1/2 ft high, W of ev. Pits impracticable.

6700 *Descent*
8000 *Sign of old ev*
8000 *Set* a point for sec ev falls in gulch, 175 ft below top of ridge, 50 lbs wide, course N. Easterly; as end.

8200 *Set* a limestone, 18 x 10 x 6 ins, 12 ins in the ground, for witness ev to ev of secs 29, 24, 25 and 30, marked R 6 with 2 notches on S and 4 notches on N edge; and parse a mound of stone 2 ft base, 1 1/2 ft high, W of ev. Pits impracticable.

Ground, mountainous.
Soil, gravelly stony and rocky; ev and 4th rate.
Timber, scattering cedar, paul woc, magnite and a few cottonwoods in wash; undergrowth, joshua, paul woc, magnite, trout, palmills, Spanish bayonet, magoad, amole, bacahata and cacti.

Mountains found, 8000 lbs.
June 19: At this ev θ set off $23^{\circ} 26'$ N on the steel arc; and at 12.5 mi N to beyond the sun on the meridian; the resulting lat is $32^{\circ} 59'$ or within 0.1' of the proper lat.

North, lat 320 19 and 24.
Descent mountainous land, as winding from ev point.
1100 *Set* a point for sec ev, 200 ft above sec ev, bears N. Easterly and S. Easterly; as end.

1500 *Set* a point, 15 lbs wide, course N. Easterly; as end.
2150 *Set* a point, 15 lbs wide, course N. Easterly.
2200 *Set* a point, 200 ft above gulch, bears N. Easterly and S. Easterly; as end.

4000 *No* signal of old ev.
Set a limestone, 20 x 12 x 10 ins, 15 ins in the ground, for 4 sec ev marked 4 on N face; and parse a mound of stone 2 ft base, 1 1/2 ft high, W of ev. Pits impracticable.

4500 *Woods* Mountain bears N. about 2 miles dist.
5500 *Set* a point, 100 ft below top of ridge, 1.00 ch wide, course N. Easterly; as end, stark.

6000 *Set* a point, 75 ft above gulch, bears N. Easterly and S. Easterly; as end.

87.50

600 ft below top of mountain.

Set a stone, 18 x 14 x 10 ins, 12 ins in the ground, for witness cor to ev of sec 7, 12, 13 and 18, marked R 6 with 4 notches on S and 2 notches on N. edge; from which

A pale verde, 6 ins diam, bears S 57 1/2° E, 92 lbs dist, marked R 6 S 5 S R 16 E S 18 B S.

A pale verde, 5 ins diam, bears S 10° N, 48 lbs dist, marked R 6 S 5 S R 16 E S 13 B S.

A pale verde, 4 ins diam, bears N. 4 1/2° W, 120 lbs dist, marked R 6 S 5 S R 16 E S 12 B S; no other trees within limit; and

rais a mound of stone 2 ft base, 1 1/2 ft high, W of ev. Pits impracticable.

Land, mountainous.

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

Under, scattering pale verde; undergrowth, pale verde, much, yucca, Puchillo and cacti.

Mountainous or land covered with dense undergrowth, 8000 lbs.

North, to sec 7 and 12.

Stone ev against on side of canyon.

Dense mountainous land, descending through dense undergrowth.

6.50 Look on the road, across N. Westly; no evnd.

7.50 Witness ev.

8.00 Top of ridge, bears N. Westly and S. Easterly; no evnd.

22.50 Ash rock, 40 lbs wide, across Westly.

23.00 Basin top west S slope of mountain.

26.00 ~~Set a stone, 18 x 14 x 10 ins, 12 ins in the ground for witness cor to ev of sec 7, 12, 13 and 18, marked R 6 with 4 notches on S and 2 notches on N. edge; from which~~

29.00 ~~Set a stone, 18 x 14 x 10 ins, 12 ins in the ground for witness cor to ev of sec 7, 12, 13 and 18, marked R 6 with 4 notches on S and 2 notches on N. edge; from which~~

40.00 ~~Set a stone, 18 x 14 x 10 ins, 12 ins in the ground for witness cor to ev of sec 7, 12, 13 and 18, marked R 6 with 4 notches on S and 2 notches on N. edge; from which~~

68.55 Set a small piece of stone, 2 1/2 x 1 1/2 x 8 ins, 18 ins in the ground, for another witness cor to 1/4 sec ev marked R 6 1/4 on R face; and raise

a mound of stone 2 ft base, 1 1/2 ft high, W of ev. Pits impracticable. This ev stands on top of bluff, 700 ft above Ash creek.

80.00 Find 3rd corner of old sec ev.

Set a small piece of stone, 18 x 14 x 10 ins, 12 ins in the ground, for ev of sec 1, 6, 7 and 12, marked with 5 notches on S and 1 notch on N. edge; from which

A witness, 4 ins diam, bears S 76° W, 218 lbs dist, marked S 5 S R 16 E S 12 B S.

A witness, 4 ins diam, bears S 76° W, 218 lbs dist, marked S 5 S R 16 E S 12 B S.

Some 617.55 lbs found
found as described in the
Manual, as it was the ground
more accessible.

Proximity of the E. bay of S 5 S, R 16 E.

S 5 S R 16 E S 1 B 1; no other trees within limit; mound of stone 2 ft base, 1 1/2 ft high, N of cor. P. to impracticable.

Ground, mountainous.

Soil, gravelly, stony and rocky, 3rd and 4th rate.

Timber, scattering musquitos, pale woods, tobacco and a few cottonwoods on Ash creek; midgrowth, pale woods, tobacco, musquitos, sugar cane.

Grant notes.

Jan 20. At this cor I set off ^{15.27} ~~15.21~~ N on the decl arc, and at 12.4 m I observed the sun on the meridian; the resulting lat is 33.1 N.

North, but over land.

Over mountainous land, ascending through dense midgrowth.

2100 Top of ridge, 150 ft above cor, bears N. E. westerly, and S.

2300 Crest, 100 ft below top of ridge, 2 chs wide, course S. westerly; several.

2400 Top of ridge, 300 ft below gulch, bears N. westerly and S. easterly; several.

2500 No signs of old ^{1/4} sec cor. A brick mason, 18 x 8 x 6 ins, 10 ins in the ground, from a cor marked ^{1/4} sec N. from which a brick mason, 8 ins diam, bears S 32 1/2 E, 18 ft the dist, marked ^{1/4} S 6 B.

A brick mason, 10 ins diam, bears N 1/2 N, 107 lbs dist, marked S 1 B, and raised a mound of stone 2 ft base, 1 1/2 ft high, N of cor.

2600 Gulch, 200 ft below top of ridge, 30 lbs wide, course N. easterly.

2700 Same gulch, 30 lbs wide, course N. westerly. Diligent search fails to disclose any evidence of old ^{1/4} sec cor. A brick mason, 20 x 10 x 8 ins, 15 ins in the ground, from a cor marked ^{1/4} sec 4 and 5 S, R 16 and 17 E, marked with 6 inches on each side.

A brick mason, 8 ins diam, bears S 22 1/2 E, 290 lbs dist, marked S 5 S R 16 E S 1 B.

A brick mason, 4 ins diam, bears S 1/2 N, 137 lbs dist, marked S 5 S R 16 E S 1 B; no other trees within limit; mound of stone 3 ft base, 2 ft high, S of cor. P. to impracticable.

Boundary of the E. bay of S 5 S, R 16 E.

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Line 13° 14' E.
Land, mountainous.
Soil, generally, stony and rocky; 3rd and 4th parts.
Timber, scattering palm grove, palm woods and cedar;
undergrowth. John, palm woods, locust, mesquite, palmito,
ll, Spanish bayonet and cactus.
Giant cactus.
Mountainous, or land covered with dense undergrowth,
8000 lbs.

June 20, 1904.

General Description.

This line runs over mountainous land. The soil is stony and rocky. There is some cedar, mesquite and palm woods timber along the line. Sp 5 S R 17 E is rough and mountainous.

Philip Couper
U.S. Deputy Surveyor.

Cloudy weather. Impossible to take observation before announcing survey; however I tried line run by me of the west boundary, with the meridian established at the standard corner of Sp. 5 S. Range 15th 16th E, and found same to agree with the meridian within our limits.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

BOOK 1804

LIST OF NAMES.

A list of the names of the individuals employed by Philip Cortzen, 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 portion of the West & East boundaries of T.S.S.R. 16 E showing the respective capacities in which they acted:

- J. Bernard Wright, Chainman.
- Austin A. Lyssight, Chainman.
- Chesley G. Aldridge, Moundman.
- James Kerriek, Axman.
- Arthur Pogue, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Philip Cortzen, United States Deputy Surveyor, in surveying all those parts or portions of the West and East boundaries of T.S.S.R. 16 E

and Salt River meridian, Territory of Arizona of the Gila General for Arizona

- J. Bernard Wright, Chainman.
- Austin A. Lyssight, Chainman.
- Chesley G. Aldridge, Moundman.
- James Kerriek, Axman.
- Arthur Pogue, Flagman.

Subscribed and sworn to before me this 24th day of August, 1891

D. J. Perry

NOTARY PUBLIC PIMA COUNTY My commission expires September 5, 1901.



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Philip Coutzen, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Frank S. Ingalls, United States Surveyor General for Arizona, bearing date of the 15th day of March, 189¹⁹⁰⁴, 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 West and East boundaries of T.S.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 Coutzen
United States Deputy Surveyor.

Subscribed by said Philip Coutzen, and sworn to before me }
this 24th day of August, 189¹⁹⁰⁴.



Clifton D. Hoover,
Clerk U.S. District Court,
First District of Arizona.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona, 189¹⁹⁰⁴
The foregoing field notes of the survey of a portion of the West and East boundaries of T.S.S. R. 16 E. of the Gila and Salt River Base & meridian, in the Territory of Ariz.

executed by Philip Coutzen, U.S. Dep. Surveyor under his contract No. 114, dated March 15th 189¹⁹⁰⁴, 189, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank S. Ingalls
United States Surveyor General.
for Ariz

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.
for Arizona