

Book 18
4-679.

MAR 7-1907

1914

BOOK 1914

FIELD NOTES

OF THE SURVEY OF THE

SOUTH BOUNDARY OF

T. 9 S. R 32 E.

1914

Of the Gila and Salt River Base and Meridian,

AS SURVEYED BY

Casimiro R. Barthelemy, United States Deputy Surveyor,

Under his Contract No. 139, dated April 14, 1906, 189

Survey commenced October 2, 190⁶, 189

Survey completed October 3, 1906, 189

NAMES AND DUTIES OF ASSISTANTS.

John M. Trayer, Chainman.

B. F. Arnold, Chainman.

H. S. Phillips, Moundman.

T. G. Walter, Axeman.

Charles Meadmore, Flagman.

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INDEX DIAGRAM.

Township 9 South, Range 32 East

6	5	4	3	2	1
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31	32	33	34	35	36

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PRELIMINARY OATHS OF ASSISTANTS.

WE, John M. Trayer and B. F. Arnold
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

South boundary of Tp. 9 S., R. 32 E.

John M. Trayer, Chainman.
B. F. Arnold, Chainman.

Subscribed and sworn to before me this 2nd
day of October, 1906, 189

W. G. Powers



~~WE~~ I, H. S. Phillips 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

South boundary of Tp. 9 S., R. 32 E.

H. S. Phillips, Moundman.
_____, Moundman.

Subscribed and sworn to before me this 2nd
day of October, 1906, 189

W. G. Powers



~~WE~~ I, P. G. Walter and
do solemnly swear that ~~we~~ I 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 ~~our~~ ^{my} skill and ability, in the survey of

South boundary of Tp. 9 S., R. 32 E.

P. G. Walter, Axman.
_____, Axman.

Subscribed and sworn to before me this 2nd
day of October, 1906, 189

W. G. Powers



I, Charles Meadmore, 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

South boundary of Tp. 9 S., R. 32 E.

Charles Meadmore, Flagman.

Subscribed and sworn to before me this 2nd
day of October, 1906, 189

W. G. Powers



chs.

Survey commenced Oct. 2nd, 1906, and executed with a ~~V. & G.~~ L.E. Gurley's Light Mountain Transit No. 1000B 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 and tested on the Meridian at Tucson, Arizona, established by the U.S. Surveyor-General and was found to be correct.

I examine the adjustments of the transit and find them correct; 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 observation on Polaris, I proceed as follows-

At the corner of townships 9 and 10 S., Rs. 31 and 32 E., which is an undersized stone, poorly set and mound of stone west of corner. I re-establish corner by setting a malpais stone 21 x 18 x 18, 16 ins., in the ground for cor. to Tps. 9 and 10 S., Rs. 31 and 32 E., marked with 6 notches on each edge; 31 E., on the N. W.; 9 S., on the N. E., 32 E., on the S. E. and 10 S., on the S. W. and raise a mound of stones, 5 ft. base, 2 1/2 ft. high, S., of the corner. Pits impracticable.

Oct. 2nd, 1906, at this cor. in latitude $32^{\circ} 36' N.$, Long. $109^{\circ} 03' W.$, at 4 hours, 46 mins., p. m., l. m. t. I set off $3^{\circ} 28' S.$ on the decl. arc and $32^{\circ} 36' N.$ on the latitude arc, and determine with the solar a meridian; and mark a point thereof on a stone set firmly in the ground 5 chs. N of the Tp. cor.

Oct. 2nd, 1906.

Oct. 3- At 16 hours, 44 mins., p. m., l. m. t., I observe Polaris at Eastern Elongation, in accordance with the Manual of instructions, and mark a point on the line thus determined on a plug driven in the ground 5 chs. N. of the corner.

At 6 h. 30m a. m., l. m. t., I lay off the azimuth of Polaris $1^{\circ} 25'$ to the west, and mark the meridian thus determined, by cutting a small groove in the stone set Oct. 2nd, on which the meridian falls .3 of an inch west of the mark determined by the Solar.

At 8 hours, 47 mins. a. m., l. m. t., I set off $32^{\circ} 36' N.$ on the Lat. arc. $3^{\circ} 45' S.$ 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 .2 ins., west of the mer. established by Polaris observation.

From the above I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the meridian, properly reduced is $12^{\circ} 30' E.$

I begin at the Cor. to Tps. 9 and 10 S., Rs. 31 and 32 E., just re-established and run EAST on a true line bet. secs. 6 and 31.

Over mountainous land ascending.

Dry wash, 20 lks. wide, course S. W.

Top of ridge bears northwesterly; thence along N. E. slope.

Set a malpais stone, 21 x 8 x 6 ins., 16 ins., in the ground for 1/4 sec. cor. marked 1/4 on the N. face, and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, N. of the corner. Pits impracticable.

Begin steep descent over malpai boulders.

Leave boulders.

Foot thence over gently rolling land.

Dry wash, 10 lks. wide, course N. E.

Set a malpais stone, 24 x 12 x 8 ins., 18 ins., in the ground for the corner to sections 5, 6, 31 and 32, marked with 1 notch on the W. and 5 notches on the E. edges, and raised a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of the corner. Pits impract.

Land mountainous and gently rolling.

11.20
26.00
40.00

40.60
54.
63.00
75.
80.

mChs.

Soil gravelly and stony; 3rd and 4th rate.
 Timber a few cedar. Undergrowth sage brush and cactus.
 Mountainous land 63.00 chains.

 EAST, on a true line bet. secs. 5 and 32.
 Over gently rolling land.

20.00
 40.00

Enter dense greasewood brush.
 Set a malpais stone, 18 x 6 x 6 ins., 12 ins., in the
 ground for 1/4 sec. cor. marked 1/4 on the N. face, and
 raised a mound of stones, 2 ft. base, 1 1/2 ft. high,
 N. of the corner Pits impracticable.

53.90
 80.00

Dry wash, 20 lks. wide, course northwesterly.
 Set a malpais stone, 18 x 10 x 8 ins., 12 ins., in the
 ground for the corner to sections 4, 5, 32 and 33 marked
 with 2 notches on the W. and 4 notches on the E. edges,
 and raise a mound of stones 2 ft. base, 1 1/2 ft. high
 W. of the corner. Pits impracticable.

Land gently rolling and level.
 Soil gravelly and stony; 3rd and 4th rate.
 No timber, undergrowth greasewood, yudca trees, palo santo
 and cactus 60.00 chains.

 EAST, bet. secs. 4 and 33.

9.90
 20.60
 28.70
 29.80
 40.00

Over gently rolling land, through dense greasewood.
 Dry wash, 15 lks. wide, course N. E.
 Dry wash, 20 lks. wide, course N. E. and leave dense undergrowth.
 Enter level or rolling land.

41.20
 47.05
 59.50
 70.00
 80.

Old road course N. E.
 Set a malpais stone, 18 x 8 x 8 ins., 12 ins., in the
 ground for 1/4 sec. cor. marked 1/4 on the N. face; and
 raise a mound of stones, 2 ft. base, 1 1/2 ft. high,
 N. of the corner. Pits impracticable.

Dry wash, 140 lks. wide, course N. E.
 Leave level and enter more gently rolling land.

Old road course N. E.
 Re-enter dense brush course N. and S.
 Set a malpais stone, 18 x 10 x 6 ins., 12 ins., in the
 ground for the corner to sections 3, 4, 33 and 34, marked
 with 3 notches on the E. and W. edges, and raise a md. of
 stones, 2 ft. base, 1 1/2 ft. high, W. of the cor.
 Dug pits, 18 x 18 x 12 ins., in each sec. 5 1/2 ft. dist.
 Land gently rolling and level.

Soil sandy and gravelly 3rd and 4th rate.
 No timber.
 Undergrowth greasewood, palo santo, yucca sage brush and
 cacti.
 Dense undergrowth 30.60 chains.

 EAST, bet. secs. 3 and 34.

10.00
 40.00

Over gently rolling land through dense greasewood.
 Leave dense brush.
 Set a malpais stone, 18 x 9 x 8 ins., 12 ins., in the
 ground for 1/4 sec. cor. marked 1/4 on the N. face;
 and raise a mound of stones, 2 ft. base, 1 1/2 ft. high,
 N. of the corner. Dug pits, 18 x 18 x 12 ins., E. and W.
 of stone, 3 ft. dist.

79.50

Intersect the Boundary line bet. the Territories of Ariz.
 and New Mexico at a point 18.89 chs. South of the 303
 Mile Cor. ~~Boundary~~.

Set a closing corner, a malpais stone, 18 x 8 x 8
 ins., 12 ins., in the ground, marked with 6 grooves on
 the N. S. and W. edges and N. M. on the E., and C. C.
 Ariz. on the W. with a mound of stones 4 ft. base, 2 ft.
 high, W. of the corner.
 Pits impracticable.

Land gently rolling. Soil sandy and gravelly 2nd and 3rd
 rate. No timber.

Undergrowth, greasewood, palo santo and yucca.
 Dense undergrowth 10.00 chains.

For General Description see subs. T. 9. S. R. 32. E.

Sasimio R. Barthelmy
 U. S. deputy Surveyor

July 3rd, 1906.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Casimiro R. Barthelemy, 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 South boundary of Twp. 9 S., R. 32 E. showing the respective capacities in which they acted:

- John M. Trayer Chainman.
- B. F. Arnold Chainman.
- H. S. Phillips Moundman.
- Moundman.
- T. G. Walter Axman.
- Axman.
- Charles Meadmore Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Casimiro R. Barthelemy, United States Deputy Surveyor, in surveying all those parts or portions of the South boundary of T 9 S R 32 E.

..... of the Gila and 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

- John M. Trayer Chainman.
- B. F. Arnold Chainman.
- H. S. Phillips Moundman.
- Moundman.
- T. G. Walter Axman.
- Axman.
- Charles Meadmore Flagman.

Subscribed and sworn to before me this 30th day of October, 1906, 189

W. G. Power



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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Casimiro R. Barthelemy, 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 14th day of April 1906, 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 South boundary of T. 9 S. R. 32 E

River of the Gila and Salt 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.

Casimiro R. Barthelemy
United States Deputy Surveyor.

Subscribed by said Casimiro R. Barthelemy, and sworn to before me }
this 5th day of March 1907

U. S. Commissioner, First Judicial District,
Territory of Arizona, residing at Tucson.



O. Stebbins
U.S. Commissioner

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, A. T. March 15, 1907. ~~18~~

The foregoing field notes of the survey of the South Boundary of T. 9 S. R. 32 E. of the Gila and Salt River Base and Meridian, in the territory of Arizona.

executed by Casimiro R. Barthelemy, U. S. Deputy Surveyor.
under his contract No. 139., dated April 14th 1906., ~~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.

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.