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SEP 3-1909

Book G.

Accepted Sept. letter E. May 7-1909

BOOK 2176

FIELD NOTES

OF THE SURVEY OF THE

Frac. Subdivision of T. 23 S. R. 15 E.

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Of the Gila and Salt River Base and Meridian,
Arizona.

AS SURVEYED BY

Jesse E. Wright, United States Deputy Surveyor,

Under his Contract No. 159, dated June 4, 1909

Survey commenced August 26, 1909

Survey completed August 27, 1909

6-151

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BOOK 2176

NAMES AND DUTIES OF ASSISTANTS.

Edgar M. Darnall, Chairman
Richard Modie Chairman

James Willson Assessor
Walter L. Clark Foreman

17
13

BOOK 2176

INDEX DIAGRAM.

Inc. Subdivision

Township *23 South*, Range *15 East*

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19	20	21	22	23	24
30	29	28	27	26	25
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PRELIMINARY OATHS OF ASSISTANTS.

WE, Edgar M Darnall and Richard Modie
do solemnly swear that we will well and faithfully execute the duties of chainmen; 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 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
Subdivision of T. 23 S. R. 15 E.

Edgar M Darnall, Chainman.
Richard Modie, Chainman.

Subscribed and sworn to before me this 26th
day of August, 1909



Jesse B Wright
U.S. Deputy Surveyor

WE, _____ and _____
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
Subdivision of T. 23 S. R. 15 E.

_____, Moundman.
_____, Moundman.

Subscribed and sworn to before me this _____
day of _____, 190



WE, James Willson 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, to the best of our skill and ability, in the survey of
Subdivision of T. 23 S. R. 15 E.

James Willson, Axman.
_____, Axman.

Subscribed and sworn to before me this 26th
day of August, 1909



Jesse B Wright
U.S. Deputy Surveyor

I, Walter L. Clark, 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
Subdivision of T. 23 S. R. 15 E.

Walter L. Clark, Flagman.

Subscribed and sworn to before me this 26th
day of August, 1909



Jesse B Wright
U.S. Deputy Surveyor

Frac. Subdivision of Tp. 23 S., R. 15 E.

Chains

- Survey commenced August 26, 1909, and executed with a Young & Son's light mountain transit No. 6492, with Smith's patent solar attachment on side. The horizontal limb of the instrument is provided with two double verniers placed opposite to each other, and each reading to 1' of arc, which is also the least reading of the verniers of the latitude and declination arcs.
- Having recently adjusted and tested the instrument, and knowing same to be correct, I begin my subdivision of this township as per instructions at the cor. of secs. 32, 33, 4 & 5 on the South bdy. of Tp., which is a granite stone 18x8x8 ins. above ground, firmly set, and marked and witnessed as described by the Surveyor General.
- At this cor. at 8h a.m., l.m.t., I set off $10^{\circ} 31\frac{1}{2}' N.$ on the decl. arc and $31^{\circ} 22' N.$ on the lat. arc, and determine a true mer. with the solar, Thence I run, Var. $14^{\circ} E.$
- $N. 0^{\circ} 2' W.$ bet. secs. 32 & 33, through dense mesquite, and willow, with great difficulty.
- 2.00 Main wash 2 chs. wide, course W. old road in same, brs. E. & W.
- 13.50 Wash 120 lks. wide, course WSW., Leave valley and asc.
- 15.00 Sharp ridge, brs. WSW. & ENE. desc. Adobe house brs. W. 6 chs.
- 32.00 Gulch 80 lks. wide, course SW.
- 40.00 Set a granite stone 24x12x8 ins. 18 ins. in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor.
- No bearings available. Pits impracticable.
- 43.00 Top of ridge, brs. SW. & NE. desc. NW. slope. steep.
- 56.00 Canyon 80 lks. wide, course SW. asc. precipitously.
- 67.00 Spur, brs. SW. & NE. desc.
- 73.00 Canyon 80 lks. wide, course SW. asc.
- 80.00 Set a granite stone 24 x 12 x 8 ins. 18 ins. in the ground for cor. of secs. 28, 29, 32 & 33, marked with 1 notch on S. & 4 notches on E. edges and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor.
- No bearings available. Pits impracticable.
- Land, rolling & mts.
Soil, 2nd & 3rd rate, sandy, gravelly, stony.
Timber, few oak trees.
Undergrowth, mesquite, willow, scrub oak, palmeo.
Mts. land or land covered with dense undergrowth, and exceptionally difficult to survey, 80.00 chs.
-
- From the cor. of secs. 31, 32, 5 & 6, on S. bdy. of Tp., which is a granite stone 8x6x8 ins. above ground, marked and witnessed as described by the Surveyor General,
- I run,
- $N. 0^{\circ} 3' W.$ bet. secs. 31 & 32.
- Over rolling valley of wash, through dense mesquite timber, with great difficulty.
- 1.00 Road, brs. E. & W., in wash 150 lks. wide, course W.
- 11.00 Wash 2 chs. wide, course W.
- 13.00 Asc. steep, stony SW. slope, adobe brs. west 5 chs..
- 17.50 Sharp SW. point, desc. adobe brs. west 6 chs.
- 23.50 Gulch 2 chs. wide, course W. asc.
- 30.00 Sharp ridge, brs. SSW. & NNE. desc. along stony W. slope.
- 37.00 Gulch 50 lks. wide, course SW. near head of same. asc.
- 40.00 Set a granite stone 24x14x10 ins. 18 ins. in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face, and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor.
- No bearings available: pits impracticable.
- 43.00 Top, thence along W. edge of broken mesa
- 76.00 Gulch 140 lks. wide, course SW. asc.
- 80.00 Set a granite stone 30x14x10 ins. 12 ins. in ground to bed-rock in mound of stone, for cor. of secs. 29, 30, 31 & 32, marked with 1 notch on S., and 5 notches on E. edges, and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor.

Erag. Subdivision of T. 23 S. R. 15 E.

Chains

No bearings available. Pits impracticable.
 Land, rolling & mts.
 Soil, 2nd & 3rd rate, sandy, gravelly, stony.
 Timber, mesquite, walnut, cedar,
 Undergrowth, mesquite, willow, greasewood, cacti.
 Mts. land, or land covered with dense undergrowth, and
 exceptionally difficult to survey, 80.00 chs.
 At this cor. at noon, I set off $10^{\circ} 27\frac{1}{2}'$ N. on the decl.
 arc and observe the sun on the meridian.
 The resulting lat. is $31^{\circ} 23'$ N. ✓

East, on a random line bet. secs. 29 & 32.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.90 Intersect cor. of secs. 28, 29, 32 & 33, whence I run,
 West, on a true line bet. secs. 29 & 32.
 Over mts. and broken land, with great difficulty. desc.
 1.00 Gulch 30 lks. wide, course SSW. asc.
 6.00 Point of ridge, brs. S. & N. desc.
 10.20 Gulch 30 lks. wide, course SSW. asc.
 13.00 Ridge, brs. SSW. & NNE. desc.
 19.00 Gulch 50 lks. wide, course SSW. asc.
 21.00 Point of ridge, brs. SSW. & NNE. desc.
 24.50 Gulch 30 lks. wide, course SSW. asc.
 28.00 Ridge, brs. SSW. & NNE. desc.
 32.00 Gulch 40 lks. wide, course S. asc.
 36.90 Ridge, brs. SSW. & NNE. desc.
 39.95 Set a granite stone 20x12x8 ins. 15 ins. in ground for
 $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face and raise a mound of
 stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor.
 No bearings available. Pits impracticable.
 42.00 Foot of slope brs. N. & S. enter dense mesquite.
 44.00 Main wash 2 chs. wide, course SSW.
 64.00 Leave valley of wash and mesquite and asc.
 72.00 Top of flat, ridge, brs. SSW. & NNE. desc.
 77.20 Gulch 80 lks. wide, course SSW. asc. steep.
 79.90 To cor. of secs. 29, 30, 31 & 32.
 Land, Mts. broken, and rolling.
 Soil, 2nd & 3rd rate, sandy, loamy, stony.
 Timber, scattering cedar, mesquite, walnut.
 Undergrowth, mesquite, cedar, scrub oak.
 Mts. or broken land or land covered with dense undergrowth
 and exceptionally difficult to survey, 79.90 chs.
 August 26, 1909.

August 27, 1909.
 At 8h a.m., l.m.t., at the cor. of secs. 29, 30, 31 & 32,
 recently established by me, and above described,
 I set off $10^{\circ} 10\frac{1}{2}'$ N. on the decl. arc and $31^{\circ} 23\frac{1}{2}'$ N. on
 the lat. arc, and determine a true meridian with the
 solar, thence I run,
 West, on a random line bet. secs. 30 & 31.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.18 Intersect W. bdy. of Tp. at point 19 lks. S. of cor. of
 secs. 30, 31, 25, & 36, which is an old stake with
 markings obliterated, and witnessed as described by the
 Surveyor General.
 In place of this old stake, I
 Set a granite stone 18x10x8 ins. in mound of stone on bed
 rock, for cor. of secs. 30, 31, 25 & 36, marked with
 1 notch on S. & 5 notches on N. edges, and raise a mound
 of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor. The
 Bearing trees given by the Surveyor General being well
 marked and legible.
 From this cor. I run,

Frac. Subdivision of T. 23 S. R. 15 E.

Chains	
	S.89° 52' E. on a true line bet. secs. 30 & 31. Over broken & mts. land through scattering oak timber.
15.00	Gulch 150 lks. wide, course SW.
29.00	Gulch 120 lks. wide, course S.
39.18	Set a granite stone 15x10x8 ins. 10 ins. in ground for ¼ sec. cor. marked ¼ on N. face and raise a mound of stone 2 ft. base 1½ ft. high N. of cor. No bearings available. Pits impracticable.
67.80	Gulch 2 chs. wide, in draw 10 chs. wide, course SSW.
72.00	Gulch 50 lks. wide, course SW. asc. steep.
75.00	Top of ridge, SW. & NE.
77.00	Desc. steep.
79.18	To cor. of secs. 29,30,31 & 32. Land, broken & mts. steep, stony slopes. Soil, 2nd rate, gravelly. Timber, some oak, and cedar. Undergrowth, scrub oak, cacti. Mts. & broken land exceptionally difficult to survey, 79.18 chs.
	N. 0° 3' W. bet. secs. 29 & 30. Over broken & mts. land asc. steep stony slope with great difficulty.
5.00	Top, brs. NE. & SW.
12.00	Desc. along broken W. edge of mesa.
21.60	Gulch 80 lks. wide, course SW. asc.
30.00	Top of ridge, brs. SW. & NE. desc.
36.00	Gulch 50 lks. wide, course SW. asc.
40.00	Set a granite stone 24x12x8 ins. 18 ins. in ground for ¼ sec. cor. marked ¼ on W. face and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. from which, An oak tree 12 ins. diam. brs. N. 14° E. 133 lks. dist., marked ¼ S. 29 B.T. No other bearings available. Cor. on top of ridge, brs. SW. & NE.
41.00	Desc. steep.
48.20	Gulch 80 lks. wide, course SW. asc.
53.00	Ridge, brs. SW. & NE. desc.
67.60	Gulch 50 lks. wide, course SW. asc.
74.00	Ridge, brs. SW. & NE. desc.
78.90	Gulch 50 lks. wide, course SW. asc.
80.00	Set a granite stone 24x12x8 ins. 18 ins. in ground for cor. of secs. 19,20,29 & 30, marked with 2 notches on S. & 5 notches on E. edges and raise a mound of stone 2 ft. base 1½ ft. high W. of cor., from which, An oak tree 12 ins. diam. brs. N. 46½° E. 118 lks. dist., marked T. 23 S. R. 15 E. S. 20 B.T. An oak tree 12 ins. diam. brs. S. 61¼° E. 77 lks. dist., marked T. 23 S. R. 15 E. S. 29 B.T. No other bearings available. Pits impracticable. Land, Mts. & broken. Soil, 2nd rate, gravelly, stony. Timber, few oak trees. Undergrowth, mesquite, scrub oak, cacti. Mts. & broken land exceptionally difficult to survey, 80.00 chs. At this cor. at noon, I set off 10° 6½' N. on the decl. arc and observe the sun on the meridian. The resulting lat. is 31° 24' N. ✓

Frac. Subdivision of T. 23 S. R. 15 E.

Chains	N. 89° 52' W. on a random line bet. secs. 19 & 30.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.40	Intersect W. bdy. of Tp. at point 16 lks. S. of cor. of secs. 19, 30, 24 & 25, which is an old post, with markings obliterated, and witnessed as described by the Surveyor General.
	This cor. being in a very dilapidated condition, I destroy and at orig. cor. point, I set a granite stone 24x10x8 ins. 18 ins. in ground for cor. of secs. 19, 30, 24 & 25, marked with 2 notches on S. & 4 notches on N. edges, and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor. from which, An old B.T., an oak tree now 12 ins. diam. brs. S. 70° E. 91 lks. dist., which I re-blaze and mark, T. 23 S. R. 15 E. S. 30 B.T.
	An oak tree 15 ins. diam. brs. S. 62 $\frac{1}{4}$ ° W. 22 lks. dist., which I mark, T. 23 S. R. 14 E. S. 25 B.T.
	No other bearings available.
	The remaining old B.T. being badly decayed, I destroy. Thence I run, S. 89° 45' E., on a true line bet. secs. 19 & 30. Over very broken & mts. land, with great difficulty. asc.
6.00	Top of flat ridge, brs. S. & N. desc.
20.00	Gulch 50 lks. wide, course SSE. asc.
22.00	Top of flat ridge, brs. SE. & NW.
30.00	Desc.
36.00	Mouth of wash 2 chs. wide, from NW. enter valley of main wash, brs. NE. & SW., and dense mesquite timber.
38.00	Middle of wash 2 chs. wide, course SSW.
39.40	Set a granite stone 24x10x8 ins. 18 ins. in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face, and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor. from which, A willow tree 6 ins. diam. brs. N. 73 $\frac{3}{4}$ ° E. 105 lks. dist., Marked $\frac{1}{4}$ S. 19 B.T.
	A mesquite tree 18 ins. diam. brs. S. 77 $\frac{1}{2}$ ° W. 149 lks. dist., Marked $\frac{1}{4}$ S. 30 B.T.
55.00	Leave valley and mesquite, and asc. steep.
57.00	Sharp ridge, brs. SSW. & NNE. desc.
61.00	Gulch 80 lks. wide, course SW. in draw 8 chs. wide, dense mesquite and willow.
79.40	To cor. of secs. 19, 20, 29 & 30. Land, rolling, broken, & mts. Soil, 2nd rate, gravelly. Timber, mesquite, oak, cedar. Undergrowth, mesquite, willow. Mts. & broken land and land covered with dense undergrowth and exceptionally difficult to survey, 79.40 chs.

Inasmuch as Sec. 19 is very broken, and contains no good agricultural or grazing land or timber, being traversed by numerous washes, and there being no water in this section, the survey of this section would be useless

Therefore I discontinue my surveys in this township.

General Description.

The SW. part of this Tp. as surveyed by me is very broken there being no land available for cultivation except in sec. 31, along the bottom of Santa Cruz River. There is no water in this portion except that in the Santa Cruz River which at this season is a good stream, but is dry a great part of the year. There are two Mexican families living in the small adobe houses in the SE. $\frac{1}{4}$ of sec. 31, names unknown. The few miles surveyed in this Tp. being over such broken land and also isolated from my other surveys under this contract, I am unable to survey except at maximum rates August 27, 1909. *Jose B. Wright* U.S. Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Jesse B. Wright, 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 Subdivision of T. 23 S. R. 15 E. showing the respective capacities in which they acted:

- Edgar M. Darnall, Chairman.
Richard Modie, Chainman.
Moundman.
Moundman.
James Willson, Axman.
Axman.
Walter L. Clark, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Jesse B. Wright, United States Deputy Surveyor, in surveying all those parts or portions of the Subdivision of T. 23 S. R. 15 E. of the Gila and Salt River Base & 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.

- Richard Modie, Chairman.
Edgar M. Darnall, Chainman.
Moundman.
Moundman.
James Willson, Axman.
Axman.
Walter L. Clark, Flagman.

Subscribed and sworn to before me this 27th day of August, 1909

Jesse B. Wright, U.S. Deputy Surveyor



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Jesse B Wright, 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 fourth day of June, 1909, 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

Subdivision of Township 23 South Range 15 East

of the Gila & Salt Base 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.

Jesse B Wright
United States Deputy Surveyor.

Subscribed by said Jesse B Wright, and sworn to before me
this 30th day of August, 1909

W. H. McClary
W. H. McClary



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Ariz. July 2, 1909

The foregoing field notes of the survey of a portion of the subdivision lines of T. 23 S. R. 15 E., Gila and Salt Base Meridian, Arizona.

executed by Jesse B Wright, U.S. Dep. Sur. under his contract No. 159, dated June 4, 1909, 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.