

2076

BOOK 2076

FIELD NOTES

OF THE SURVEY OF THE

2076

Fractional East & West Bdy. T. 14 S. R. 27 E.

2076

West boundary resurvey

2076

Of the G. & S. R. B. & Meridian,

Arizona.

AS SURVEYED BY

Jesse B. Wright, United States Deputy Surveyor,

Under his Contract No. 145, dated April 15, 1907.

Survey commenced October 2, 1907.

Survey completed October 3, 1907.

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BOOK 2076

For

NAMES AND DUTIES OF ASSISTANTS.

See Book "M," S. bdy. T. 6 N., R.12 E.

BOOK 2076

INDEX DIAGRAM.

Township 14 S., Range 27 E.

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For PRELIMINARY OATHS OF ASSISTANTS.
See Book "M," S. bdy. T. 6 N., R. 12 E.

WE, _____ and _____
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 _____

_____, Chainman.

_____, Chainman.

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



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 _____

_____, Moundman.

_____, Moundman.

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



WE, _____ 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 _____

_____, Axman.

_____, Axman.

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



I, _____, 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 _____

_____, Flagman.

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



Fractional East Bdy. Tp. 14 South, R. 27 East.

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chains

Survey commenced October 2, 1907, and executed with a Young & Son light mountain transit No. 7492, 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 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, July 15, 1907. I examine 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 on Polaris, I proceed as follows:-

From the cor. of Tps. 14 South, Rs. 27 and 28 E., just established by me, latitude $32^{\circ} 9' 38''$ N.; longitude $109^{\circ} 32' 47''$ W., I set off $32^{\circ} 10'$ N. on the lat. arc, and $3^{\circ} 23'$ S. on the decl. arc, and at 4h p.m., l.m.t., determine with the solar a meridian, and mark a point thereof, on a stone firmly set in the ground, 5 chs. N. of the cor.
 At 6h.49m. p.m., by my watch, which is correct, I observe Polaris at eastern elongation, in accordance with the 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.
 October 2, 1907.

October 3, 1907, At 6h a.m., l.m.t., I lay off the azimuth of Polaris $1^{\circ} 24'$ to the west, and mark the meridian thus determined, by cutting a small groove in the stone set last night, on which the meridian coincides with the meridian determined by the solar. At 8h a.m., l.m.t., I set off $32^{\circ} 10'$ N. on the lat. arc, $3^{\circ} 39'$ 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, which coincides with the meridian established by the Polaris observation.
 The magnetic bearing of the true meridian at 8h 30m a.m., l.m.t., is N. 15° W., the angle thus determined gives the mag. decl. 15° E.

From the cor. of Tps. 14 and 15 S., Rs. 27 and 28 E., I run, North, on the east bdy. of tp.
 Ascending gradually over mountainous land.
 Wash, 20 lks. wide, course SW.
 Top of rocky ridge, extends E. and W., descend.
 Set a granite stone, 20 X 10 X 8 ins., 15 ins. in the 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. Pits impracticable.
 40.30 Small gulch, 8 lks. wide, course SW.
 59.30 Wash, 50 lks. wide, course SW.
 70.00 Junction of two washes, course W. and SW.
 Begin ascent.
 80.00 Point for cor. of secs. 25, 30, 31 and 36 falls on granite boulder in place, 2 X 2 X 1 ft. above ground, which I mark with a cross for exact cor. of secs., with 1 groove S. and 5 grooves N. of cross, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 Land, mountainous.
 Soil, sandy and rocky; 3rd rate.
 No timber, undergrowth, mesquite.
 Mountainous land, exceptionally difficult to survey.
 80.00 chs.

6.00
 37.00
 40.00

 40.30
 59.30
 70.00

 80.00

Fractional East Bdy. of Township 14 S., Range 27 E.

chains	North, on the east Bdy. of tp., bet. secs. 25 and 30. Ascending steeply over mountainous land.
20.00	Top of high ridge, extends E. and W.; descend steeply.
31.00	Gulch, 30 fks. wide, course SE.
34.00	Top of low ridge, extends E. and W.
38.00	Main gulch, 1.00 ch. wide, course SE.
40.00	Set a slate stone, 20 X 10 X 8 ins., 15 ins. in the ground, for $\frac{1}{4}$ sect 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. Pits impracticable.
	Begin steep ascent.
70.00	Top of main divide, brs. E. and W. Descend steep slope.
80.00	Set a granite stone, 18 X 10 X 6 ins., 12 ins. in the ground, for cor. of secs. 19, 24, 25 and 30, marked with 2 notches on the S. and 4 notches on the N., and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
	Land, mountainous.
	Soil, sandy and rocky; 4th rate.
	Timber, oak, juniper and cedar; undergrowth, oak and mesquite.
	Mountainous land, exceptionally difficult to survey, 80.00 chs.
	I discontinue survey north on account of the rocky, mountainous character of the land, making it impracticable to survey by the ordinary methods.

Fractional West Boundary of Tp. 14 South, Range 27 East.

chains	No noon observation because cloudy condition of weather. The west boundary of Tp. 14 South, Range 27 East, being an old line with the corners obliterated, I reestablish same, beginning at the SW. of Tp., which is a granite stone, 24 X 10 X 8 ins., 18 ins. in the ground, previously described. Thence I run, North, along the west boundary of Sec. 31. Ascending gradually over mountainous land, broken by numerous small ridges and gulches running west.
4.00	Top of ridge, extends W. and E.
26.15	Top of rocky spur, extends NW.; descend.
32.00	Dry wash, 20 lks. wide, course NW., ascend.
39.96	Find old signs of cor. on line, in delapidated condition, which I destroy and at
40.00	Set a sandstone, 20 X 12 X 8 ins., 15 ins. in the 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. Pits impracticable.
40.45	Top of spur extends WNW., descend.
72.57	Road, from Dos Cabezos to Wilcox, brs. E. and W.
72.70	Find old witness cor., which is a mound of stone, which I destroy.
79.94	Find old mound of stone, 3 lks. E. of line, which I destroy.
80.00	Set a sandstone, 18 X 9 X 4 ins., 12 ins. in the ground, for cor. of secs. 25, 30, 31 and 36, marked with 1 notch on the S. and 5 notches on the N. edge, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
	Land, mountainous. Soil, sandy and stony; 3rd rate. Timber, scattering mesquite; undergrowth, oak and mesquite. Mountainous land, exceptionally difficult to survey, 80.00 ch.

	North, along the west bdy. of sec. 30. Ascending gradually over mountainous land.
4.00	Dry wash, 80 lks. wide, course SW.
39.85	Find old cor. 30 lks. E. of line, which I destroy.
40.00	Set a granite stone, 20 X 8 X 6 ins., 15 ins. in the 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. Pits impracticable.
60.00	Dry wash, 3.00 chs. wide, course SW.
69.00	House of Moretta, brs. N. 53° 30' E.
73.50	Wash, 1.00 ch. wide, course SW.
79.00	Wash, 50 lks. wide, course SW.
79.85	Find old cor. 34 lks. E. of line, which I destroy.
80.00	Set a limestone, 30 X 24 X 12 ins., 22 ins. in the ground, for cor. of secs. 19, 24, 25 and 30, marked with 2 notches on the S. and 4 notches on the N. edge, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, mountainous.
	Moretta's house brs. S. 66° 45' E. Soil, stony and rocky, 2nd rate. Timber, scattering mesquite and tesota; undergrowth, mesquite. Mountainous land, exceptionally difficult to survey, 80.00 chs. Here I discontinue the reestablishment of this line.

October 3, 1907.

Fractional West Boundary of Township 14 S., Range 27 East.

Line designated	True Bearing	Distance	Departure.			Latitude.	
			E.	W.	N.	S.	
S. Bdy.	East	479.55 ✓	479.55 ✓				
E. Bdy	North	160.00			160.00 ✓		
Subs.	S. 89° 56' W	80.20 ✓		80.20 ✓			.09 ✓
	West	80.04 ✓		80.04 ✓			
	S. 89° 56' W.	80.10 ✓		80.10 ✓			.09 ✓
	S. 89° 56' W.	80.04 ✓		80.04 ✓			.09 ✓
	S. 89° 57' W.	80.08 ✓		80.08 ✓			.07 ✓
W. Bdy.	West	79.45 ✓		79.45 ✓			
	South	160.00 ✓				160.00 ✓	
Convergency				.15 ✓			
			479.55 ✓	480.06 ✓	160.00 ✓		160.34 ✓
				479.55 ✓			160.00 ✓
Error in dep.				.51	Error in lat.		.34 ✓

General Description.

The fractional east and west boundaries of this township are in very mountainous land. Along the north line is a great porphyry dyke or vein extending East and West, and paralleled on the north by a vein of white Quartz.

Pease T. Wright
 U. S. Deputy Surveyor.

FOR FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

See Book "M," S. bdy. T. 6 N., R. 12 E.

LIST OF NAMES.

A list of the names of the individuals employed by _____

_____, 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 _____

showing the respective capacities in which they acted:

_____, *Chainman.*

_____, *Chainman.*

_____, *Moundman.*

_____, *Moundman.*

_____, *Arman.*

_____, *Arman.*

_____, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____

_____, United States Deputy Surveyor, in surveying all those parts or portions of the _____

_____ of the _____

_____ meridian, _____ of _____, 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 _____

_____, *Chainman.*

_____, *Chainman.*

_____, *Moundman.*

_____, *Moundman.*

_____, *Arman.*

_____, *Arman.*

_____, *Flagman.*

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



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For

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.
See Book "M," S. bdy. T. 6 N., R. 12 E.

I, _____, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from _____ United States Surveyor General for _____, bearing date of the _____ day of _____, 190 _____, 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 _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____ of the _____ meridian, in the _____ of _____, 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 _____ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

United States Deputy Surveyor.

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



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona, June 30th., 1908.

The foregoing field notes of the survey of the fractional East and West boundaries of T. 14 S., R. 27 E. of the Gila and Salt River Base and Meridian, in the Territory of Arizona,

executed by Jesse B. Wright, U. S. deputy surveyor under his contract No. 145, dated April 15, 1907, 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. Engel
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.