

Ready
J. G.

2074

BOOK 2074

FIELD NOTES

OF THE SURVEY OF THE

2074

2074

West and North Boundaries of T. 15 S., R. 22 E.

2074

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 Sept. 16, 1907.

Survey completed Sept. 20, 1907.

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1A

BOOK 2074

For NAMES AND DUTIES OF ASSISTANTS.

Reference is had to "M" S.bdy.T.6 N.. R.12 E.

BOOK 2074

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PRELIMINARY OATHS OF ASSISTANTS.

Reference is had to "M," S. Day. 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 }



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West Boundary of Township 15 South, Range 22 East.

chains

Survey commenced September 16, and executed with a Young and 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 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, 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 by observations on Polaris, I proceed as follows:-

At the cor. of secs. 30 and 31, on the W. Bdy. of Tp. 15 South, R. 22 East, latitude 32° 5' N., longitude 110° 9' 32" W., I set off 32° 5' N. on the lat. arc., and 2° 50' N. 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, 5.00 chs. N. of the Cor. At 7h.52m. 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 ground, 5.00 chs. N. of my station.

September 16, 1907.

September 17, 1907. At 6h 30m., l.m.t., I lay off the azimuth of Polaris, 1° 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 with the solar.

At 7h a.m., l.m.t., I set off 32° 5' N. on the lat. arc, and 2° 36' 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, 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. 13° 40' W., the angle thus determined gives the mag. decl. 13° 40' E.

From the cor. of secs. 30 and 31, on the W. Bdy. of Tp. 15 S., R. 22 E., previously set by me, I run, South, on the West Bdy, bet. secs. 31 and 36. Ascending steeply.

10.00 Top of ridge, extends NE. and SW; descend.
10;20 House of A. H. Weim, brs. S. 28½° W., 35 chs. dist.
40.00 Point for ¼ sec. cor. falls in gulch, 2.00 chs. wide, course W.

41.00 Set a granite stone, 20 X 10 X 6 ins., 15 ins. in the ground, for witness cor. to ¼ sec. cor., marked W C ¼ on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.

65.00 Ascend along W. slope of high mountain. Top of high ridge, extends WSW. and ENE. Descend.

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West Boundary of Township 15 South, Range 22 East.

chains	
72.00	Gulch, 1.00 chs. wide, course WSW; Ascend.
80.15	Intersect the 3rd standard parallel South, at a point 19.64 chs. west of the ^{old} cor. of Tps. 15 S., Rs. 21 and 22 E., where I set a granite stone, 30 X 12 X 12 ins., 22 ins. in the ground, marked C C on N. face, with 6 grooves on E. W. and N. faces, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
	Land, mountainous.
	Soil, sandy and stony; 3rd and 4th rate.
	Timber, scattering oak; undergrowth, oak and mesquite.
	Mountainous land, exceptionally difficult to survey, 80.15 chs.

	I retrace to the cor. of secs. 30 and 31 on the W. bdy. of Tp., and run
	North, on the west bdy. of secs. 30.
	Descending over rough mountainous land.
32.00	Wash, 20 lks. wide, course W. Ascend.
39.00	Top of low ridge, extends E. and W.
40.00	Set a limestone, 20 X 6 X 4 ins., 15 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face, from which
	A mesquite, 6 ins. diam., brs. W. 28 lks. dist., marked ¼ S 25 B T.
	A mesquite, 6 ins. diam., brs. N21°E., 52 lks. dist., marked ¼ S 30 B T.
	Descend.
50.00	Bottom of descent, thence over broken land.
61.00	Ascend.
65.00	Top of low ridge, extends E. and W.; descend.
80.00	Set a slate stone, 24 X 12 X 4 ins., 18 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. face, and raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor. Pits impracticable.
	Land, mountainous.
	Soil, Sandy and stony; 3rd and 4th rate.
	Timber, scattering oak and mesquite; undergrowth, oak.
	Mountainous land, exceptionally difficult to survey, 80.00 chs.

	North, bet. secs. 19 and 24.
	Descending over broken land.
24.00	Wash, 10 lks. wide, course W.
40.00	Set a slate stone, 36 X 10 X 5 ins., 22 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face, from which
	An oak, 18 ins. diam., brs. N 87° 30' E., 98 lks. dist., marked ¼ S 19 B T.
	A mesquite, 6 ins. diam., brs. S. 63° W., 63 lks. dist., marked ¼ S 24 B T.
	Descend.
58.00	Main gulch, 20 lks. wide, course W. Ascend.
67.00	Top of ridge, extends E. and W.; descend.
80.00	Set a slate stone, 24 X 12 X 6 ins., 18 ins. in the ground, for cor. of secs. 13, 18, 19, and 24, marked with 3 notches on N. and S. faces, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
	A mesquite, 18 ins. diam., brs. S. 54° W., 68 lks. dist., marked T 15 S R 21 E S 24 B T.
	A mesquite, 6 ins. diam., brs. S. 67½° E., 68 lks. dist., marked T 15 S R 22 E S 19 B T.
	A mesquite, 24 ins. diam., brs. N 9° E., 292 lks. dist., marked T 15 S R 22 E S 18 B T.

West Boundary Township 15 South, Range 22 East.

chains Land, mountainous.
 Soil, sandy and gravelly, 3rd and 4th rate.
 Timber, scattering mesquite and oak.
 Mountainous land, exceptionally difficult to survey,
 80.00 chs.

 North, bet. secs. 13 and 18.
 Ascending along W. bdy. of sec. 18, over mountainous land.

10.50 Top of ridge, extends E. and W.
 20.00 Top of ridge, extends E. and W., descend.
 30.00 Wash, 10 lks. wide, course W., ascend.
 38.00 Top of ridge, extends E. and W., descend.
 40.00 Set a slate stone, 20 X 6 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.

53.00 Top of ridge, extends WNW. and ESE.
 57.00 Begin descent.
 70.00 Wash, 30 lks. wide, course W., ascend.
 77.00 Top of low mesa.

80.00 Set a limestone, 20 X 10 X 8 ins., 15 ins. in the ground, for cor. of secs. 7, 12, 13 and 18, marked with 4 notches on the S. and 2 notches on the N. face, 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 and 4th rate.
 Timber, none.
 Mountainous land, exceptionally difficult to survey,
 80.00 chs.

September 17, 1907.

 September 18, 1907. At 7h a.m., 11.m.t., I set off $2^{\circ} 13' N.$ on the decl. arc, and $32^{\circ} 8' N.$ on the lat. arc, and determine a true meridian with the solar at the cor. of secs. 7, 12, 13 and 18.

Thence I run,
 North, bet. secs. 7 and 12.
 Descending over rolling and broken land.

31.00 Main wash, 30 lks. wide, course W.
 40.00 Set a limestone, 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.

Descend.
 67.00 Wash, 10 lks. wide, course W.
 80.00 Set a limestone, 24 X 12 X 6 ins., 18 ins. in the ground, for cor. of secs. 1, 6, 7 and 12, marked with 5 notches on the S. and 1 notch on the N. face, 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 and 4th rate.
 No timber.
 Mountainous land, exceptionally difficult to survey,
 80.00 chs.

 North, bet. secs. 1 and 6.
 Descending over mountainous, rolling land.

25.00 Wash, 10 lks. wide, course W. Ascend gradually.
 39.00 Set a sandstone, 24 X 15 X 10 ins., 18 ins. in the ground, for witness cor. to $\frac{1}{4}$ sec. cor., marked $WC\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

40.00 Point for $\frac{1}{4}$ sec. cor. falls in small gulch, course SW.
 60.00 Wash, 10 lks. wide, course W.
 80.00 Set a granite stone, 24 X 12 X 10 ins., 18 ins. in the ground, for cor. of Tps. 14 and 15 S., Rs. 21 and 22 E., marked with 6 notches on each edge, and

West boundary of Township 15 South, Range 22 East.

chains.

raise a mound of stone, 2 ft. base, 1½ ft. high, S.
of cor. Pits impracticable.
Land, mountainous.
Soil, sandy and stony; 2nd and 3rd rate.
No timber.
Mountainous land, exceptionally difficult to survey,
80.00 chs.

North Boundary of Township 15 South, Range 22 East.

chains

September 20, 1907. At 7h a.m., l.m.t., I set off 1° 26' N. on the decl. arc, and 32° 10' N. on the lat. arc, and determine a true meridian with the solar at the cor. of Tps. 14 and 15 S., Rs. 21 and 22 East.

Thence I run, East, on a random line, along the N. Bdy. of Tp. 15 S., R. 22 E., setting temp $\frac{1}{2}$ sec. and sec. cors. at intervals of 40.00 and 80.00 chs. and at 479.85 chs. intersect the cor. of Tps. 14 and 15 South, Rs. 22 and 23 East, at a point 14 lks. S., which is a granite stone, previously described.

11.00
34.25
34.50
39.85

Thence I run, S. 89° 59' W. on a true line N. of sec. 1, over rolling land, Wash, 2.00 chs. wide, course S.
Wash, 20 lks. wide, course SW.
Trail, brs. NE. and SW.
Set a sandstone, 30 X 10 X 6 ins., 22 ins. in the 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. Pits impracticable.

79.85

Descend gradually.
Set a granite stone, 20 X 10 X 6 ins., 15 ins. in the ground, for cor. of secs. 1, 2, 35 and 36, marked with 1 notch on the E. and 5 notches on the W. edge, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

Land, rolling.
Soil, sandy and gravelly; 2nd and 3rd rate.
No timber.
Rolling land, 79.85 chs.

40.00

S. 89° 59' W. on a true line, N. of sec. 2.
Descending gradually over rolling land.
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 N. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.

61.55
65.00
80.00

Tres Alamos draw, 2.00 chs. wide, course N.
Road to Johnsons, brs. NW. and SE.
Set a granite stone, 20 X 10 X 8 ins., 15 ins. in the ground, for cor. of secs. 2, 3, 34 and 35, marked with 2 notches on the E. and 4 notches on the W. edge, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

Land, rolling.
Soil, sandy and gravelly, 2nd and 3rd rate.
No timber.
Rolling land, 80.00 chs.

40.00

S. 89° 59' W. along the N. bdy. of sec. 3.
Over rolling land.
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 N. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.

80.00

Set a granite stone, 20 X 8 X 6 ins., 15 ins. in the ground, for cor. of secs. 3, 4, 33 and 34, marked with 3 notches on E. and W. faces, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

Land, rolling.
Soil, sandy and gravelly, 2nd and 3rd rate.
No timber.
Rolling land, 80.00 chs.

September 20. At noon, I set off 1° 20' N. on the decl. arc and observe the sun on the meridian; the resulting lat. is 32° 10' N.

North Boundary Township 15 South, Range 22 East.

chains.

18.50 S. 89° 59' W., on a true line, N. of sec. 4.
 25.00 Ascending very gradually over rolling land.
 40.00 Road from Johnson, brs. NW. and SE.
 Draw, 5.00 chs. wide, course N.
 Set a granite stone, 20 X 20 X 8 ins., 15 ins. in
 the 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. Pits impracticable.
 80.00 Set a granite stone, 24 X 10 X 8 ins., 18 ins. in
 the ground, for cor. of secs. 4, 5, 32 and 33,
 marked with 4 notches on the E. and 2 notches on
 the W. edge, and raise a mound of stone, 2 ft.
 base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 Land, rolling.
 Soil, sandy and gravelly; 2nd and 3rd rate.
 No timber.
 Rolling land, 80.00 chs.

 40.00 S. 89° 59' W., on the N. bdy. of sec. 5.
 Descending gradually over rolling land.
 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 N. face,
 and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
 N. of cor. Pits impracticable.
 50.50 Wash, 2.00 chs. wide, course NNW.
 57.50 Wash, 1.00 ch. wide, course N.
 80.00 Set a granite stone, 24 X 16 X 15 ins., 18 ins. in
 the ground, for cor. of secs. 5, 6, 31 and 32,
 marked with 5 notches on the E. and 1 notch on the
 W. edge, and raise a mound of stone, 2 ft. base,
 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 Land, rolling.
 Soil, 2nd and 3rd rate.
 No timber.
 Rolling land, 80.00 chs.

 40.00 S. 89° 59' W. on the N. bdy. of sec. 6.
 Ascending gradually over rolling land, with many
 low ridges and small washes.
 Set a granite stone, 15 X 8 X 8 ins., 10 ins. in the
 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. Pits impracticable.
 53.00 Draw, 3.00 chs. wide, course SW.
 80.00 The cor. of Tps. 14 and 15 S., Rs. 21 and 22 E.,
 previously described.
 Land, rolling.
 Soil, sandy and gravelly, 2nd and 3rd rate.
 No timber.
 Rolling land, 80.00 chs.

 At the above cor. at noon I set off 1° 21' N. on the
 declination arc; observe the sun on the true meri-
 dian; the resulting latitude is 32° 40' N. or within
 1' of the proper lat.
 September 20th, 1907.

Boundaries of Township 15 South, Range 22 East.

Line designated	True bearing	Distance	Latitudes		Departures	
			N	S.	E.	W.
3rd Standard						
Parallel S.	S89°43'W	39.76 ✓		.20 ✓		39.76 ✓
	N89°43'W	39.76 ✓	.20 ✓			39.76 ✓
	West	79.60 ✓				79.60 ✓
	West	79.22 ✓				79.22 ✓
	West	70.59 ✓				70.59 ✓
	S89°55'W	75.05 ✓		.12		75.05 ✓
	West	95.94 ✓				95.94 ✓
W. Bdy	North	✓480.00	480.00 ✓			
N. Bdy	N89°59'E	479.85 ✓	.14 ✓		479.85	
E. Bdy	South	480.00 ✓		480.00		
Convergency					.45	
			480.34 ✓	480.32 ✓	480.30	479.92 ✓
			480.32		479.92 ✓	
			Error in lat. .02 ✓	Error in dep. .38 ✓		

General Description.

The eastern and northern boundaries of the township are over smooth or rolling land, covered with a fine native grass. The southern boundary is described in the field notes of the re-survey of the 3rd Standard Parallel South. The western boundary runs over very broken land along the western slope of the Little Dragoon Mountains. The land is mostly rocky, the north two miles being over good grazing land.

James B. Wright
 U. S. Deputy Surveyor.

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BOOK 2074

FOR FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

Reference is had to "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, May 23th, _____, 190 8.

The foregoing field notes of the survey of the North and West boundaries of T. 15 S., R. 22 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 15th, _____, 190 7 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. 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.

For FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

Reference is had to "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.
_____, Axman.
_____, Axman.
_____, 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.
_____, Axman.
_____, Axman.
_____, Flagman.

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

