

BOOK 2077

2077

FIELD NOTES

OF THE SURVEY OF THE

2077

East and West Boundaries

2077

of

Township 15 South, Range 27 East,

2077

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

Arizona.

AS SURVEYED BY

Jesse B. Wright, United States Deputy Surveyor,

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

Survey commenced October 8, 1907.

Survey completed October 10, 1907.

2077

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BOOK 2077

For **NAMES AND DUTIES OF ASSISTANTS.**

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

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Township 15 South, Range 27 East.

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BOOK 2077

For PRELIMINARY OATHS OF ASSISTANTS.
Reference is had to "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 }



East Boundary of Township 15 South, Range 27 East.

chains

Survey commenced October 8, 1907, 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 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 stan. cor. of Tps. 15 South, Rs. 27 and 28 East, latitude $32^{\circ} 4' 25''$ N., longitude $109^{\circ} 13' 33''$ W. I set off $32^{\circ} 4' N.$ on the lat. arc, and $62' 04'' S.$ on the decl. arc, and at 5h 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 8h 30m 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 8, 1907.

October 9, 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 $32^{\circ} 04' N.$ on the lat. arc, $5^{\circ} 57' S.$ 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 30 m a.m., is N. 15° W., the angle thus determined gives the mag decl. 15° E.

From the stan. cor. of Tps. 15 S., Rs. 27 and 28 E., which is a stake marked and witnessed as described by the Surveyor General. Markings on stake are badly obliterated so I destroy same and reset cor. by setting a quartzite stone, 24 X 10 X 8 ins., 18 ins. in the ground, for stan. cor. of Tps. 15 S., Rs. 27 and 28 E., marked S C on N; with 6 grooves on N, E., and W. faces; and raise a mound of stone, 2ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits, impracticable. Trail, brs. NW. and SE.

22.00
40.00

Set a quartzite stone, 24 X 15 X 10 ins., 18 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.

80.00

Set a quartz stone, 24 X 10 X 8 ins., 18 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, rolling.
Soil, sandy; 2nd rate.
No-timber, undergrowth, mesquite.

East Boundary of Township 15 South, Range 27 East.

chains	North, on the East bdy. of Tp., along the East of Sec. 25. Over smooth and rolling land.
12.80	Draw, 20 lks. wide, course SW.
27.00	Draw, 3.00 chs. wide, course WSW.
40.00	Set a quartzite stone, 24 X 10 X 8 ins., 18 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.
43.00	Road and telephone line to Dos Cabezos, brs. NW. and SE.
80.00	Set a quartz, 30 X 15 X 10 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, smooth and rolling. Soil, sandy and gravelly; 2nd rate. No timber; undergrowth, mesquite.

	North, along the East side of Sec. 24. Over smooth and rolling land.
31.25	Trail, brs. E. and W.
40.00	Set a granite 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.
70.00	Along E. side of draw.
80.00	Set a quartzite stone, 30 X 15 X 10 ins., 22 ins. in the ground, for cor. of secs. 13, 18, 19 and 24, marked with 3 notches on the N. and S. edges, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
	Land, smooth and rolling. Soil, sandy and gravelly; 2nd rate. No timber; undergrowth, mesquite.

	Oct. 9: At 11h. 48m. 1.m.t. I set off $6^{\circ} 02'$ on the decl. arc, and observe the sun on the meridian; the resulting lat. is $32^{\circ} 7'$ N.
	North, along the E. side of sec. 13. Over smooth and rolling land.
40.00	Set a quartz stone, 18 X 15 X 6 ins., 12 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.
46.00	Trail, brs. E. and W.
69.50	Trail, brs. E. and W.
70.00	Trail, brs. NW. and SE.
80.00	Set a quartz stone, 30 X 12 X 8 ins., 22 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. edge and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
	Land, smooth and rolling Soil, gravelly, 2nd rate. Timber, none, undergrowth, mesquite.

	North, along the E. bdy. of sec. 12. Entering rough and rocky land.
19.00	Trail, brs. NW. and SE.
25.50	Canyon, 2.00 chs. wide, course SSW.
40.00	Set a sandstone, 24 X 15 X 10 ins., 18 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.

East Boundary of Tp. 15 South, Range 27 East.

chains

41.00

Same canyon, 2.00 chs. wide, course SSE.

46.00

Same canyon, 2.00 chs. wide, course SSW.

80.00

Set a sandstone, 24 X 10 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. edge, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.

Land, rough and rocky.

Soil, gravelly and stony; 3rd rate.

Timber, none, undergrowth, mesquite.

Rough and rocky land, 80.00 chs.

North, on the E. bdy. of Sec. 1.

Over rough and rocky land.

30.80

Road to Dos Cabazos, brs. WNW. and ESE.

40.00

Set a sandstone, 24 X 15 X 6 ins., 18 ins. in the 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. Pits impracticable.

62.20

Main wash, 80 lks. wide, course SW.

76.00

Intersect the S. Bdy. of Tp. 14 S., R. 27 E., 3.05 chs. W. of cor. of Tps. 14 S., Rs. 27 and 28 E., where I set a granite stone, 30 X 15 X 10 ins., 22 ½ ins. in the ground, for clos. cor. of Tps. 15 S., Rs. 27 and 28 E., marked

C C 15 S on S.,

28 E on E., and

27 W on W face, with 6 grooves on S, E, and W. faces, and raise a mound of stone, 2 ft. base, 1½ ft. high S. of cor. Pits impracticable.

Land, rough and rocky.

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

Timber, none; undergrowth, mesquite.

Rough and rocky land, 76.00 chs.

October 9, 1907.

West Boundary of Township 15 South, Range 27 East.

chains

October 10, 1907. At 7h a.m., l.m.t., I set off 6° 19' S., on the decl. arc, and 32° 4' N. on the lat. arc, and determined a true meridian with the solar at the cor. of Tps. 15 S., Rs. 26 and 27 E.

Thence I run,
North, on the West Bdy. of Tp., along the W. side of sec. 31.
Over level land.

40.00 Set a quartz stone, 20 X 12 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.

42.50 Draw, 2.00 chs. wide, course W.
77.50 Road, brs. WNW. and ESE, to Wilcox.
80.00 Set a quartzite stone, 20 X 12 X 8 ins., 15 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, level.
Soil, sandy and gravelly; 2nd rate.
No timber; undergrowth, mesquite.

North, along the west bdy. of sec. 30.
Over smooth and open land.

39.50 Trail, brs. NW. and SE.
40.00 Set a quartz 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.

80.00 Set a quartz stone, 20 X 12 X 8 ins., 15 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, Smooth.
Soil, sandy; 2nd rate.
No timber, undergrowth, Mesquite.

North, along the west bdy. of sec. 19.
Over open and smooth land.

28.00 Wash, 1.00 ch. wide, course W.
39.80 Wash, 2.00 chs. wide, course SW.
40.00 Set a quartz stone, 24 X 12 X 6 ins., 18 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.

65.00 Wash, 2.00 chs. wide, course SW.
69.00 Trail, brs. NE. and SW. To Dos Cabezos.
74.50 Trail, brs. NE. and SW, to Dos Cabezos
80.00 Set a quartz stone, 20 X 12 X 4 ins., 15 ins. in the ground, for cor. of secs. 13, 18, 19 and 24, marked with 3 notches on the N. and S. edges, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

Land, smooth and open.
Soil, sandy, 2nd rate.
No timber; undergrowth, mesquite.

October 10: At noon, I set off 6° 25' N. on the decl. arc, and observe the sun on the meridian; the resulting lat. is 32° 7' N.

North, along the W. bdy. of sec. 18.

West Boundary of Township 15 South, Range 27 East.

chains	Over smooth and open land.
5.75	Wash, 1.00 ch. wide, course WNW.
7.50	Wash, 1.00 ch. wide, course WSW.
38.00	Draw, 10.00 chs. wide, course W.
40.00	Set a quartz stone, 20 X 12 X 10 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.
65.00	Draw, 20.00 chs. wide, course SW.
80.00	Set a quartz stone, 20 X 12 X 10 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. edge, and raise a mound of stone, 2 ft base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, level. Soil, sandy; 2nd rate. No timber.

	North, bet. secs. 7 and 12. Ascending over heavy, rolling land.
10.00	Trail, brs. E. and W.
24.50	Enter draw 10.00 chs. wide, course SW. Thence along same.
34.50	Leave draw to right.
40.00	Set a quartz stone, 24 X 15 X 6 ins., 18 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.
43.50	Wash, 30 lks. wide, course SW.
64.00	Top of low ridge, extends SSW. and NNE.
72.50	Wash, 20 lks. wide, course SSW.
80.00	Top of low ridge, extends SSW. and NNE. Set a quartz stone, 20 X 8 X 6 ins., 15 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. 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 gravelly; 2nd and 3rd rate. Timber, none. Mountainous land, 80.00 chs.

	North, along the W. bdy. of sec. 6. Descending over heavy rolling land.
15.00	Wash, 1.00 ch. wide course SW.
27.40	Low ridge, extends SW. and NE.
40.00	Set a quartz stone, 20 X 12 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.
45.00	Low ridge, extends S. and NE.
51.50	Wash, 2.00 chs. wide, course SW.
60.00	Road, brs. NE. and SW, to Dos Cabezas.
76.30	Intersect the S. Bdy. of Tp. 14 S., Rs. 26 E. at a point 330 ³²⁰ lks. W. of cor. of Tp. 14 S., Rs. 26 and 27 E., previously described. Set a limestone, 24 X 15 X 15 ins., 18 ins. in the ground, for clos. cor. of Tps. 15 S., Rs. 26 and 27 E., marked C on 15 S on S., 27 E on E., 26 E on W. face, with 6 grooves on S. E. and W. faces, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S. of cor. Pits impracticable. Land, mountainous. Soil, sandy and stony; 2nd and 3rd rate. No timber. Mountainous land, 76.30 chs.

October 10, 1907.

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West Boundary of Township 15 South, Range 27 East.

chains

Line designated	True Bearing	Distance	Latitude		Departure	
			N	W	N	S
South Bdy	East	480.00	480.00			480.00
East Bdy	North	476.00			476.00	
North Bdy	West	479.70		479.70		
West Bdy	South	476.30				476.30
Convergency				.45		
			480.00	480.15	476.00	476.30
				480.00		476.00
			Error in lat. .15		error in dep. .30	

General Description.

The south boundary of this township is over a rolling plain, fine grazing land. The south four miles of the west boundary is over a rolling plain. On the north, the line enters the foothills of the Dos Cabezos Peaks.

Jesse Bellright
U. S. Deputy Surveyor.

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 _____ }



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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, June 30, _____, 190 8.

The foregoing field notes of the survey of ~~the East and West Bdrs. of T. 15 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. [Signature]
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.