

2071

BOOK 2071

FIELD NOTES

OF THE SURVEY OF THE

2071

2071

South Boundary Tp. 13 South, Range 12 East,

2071

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 July 22, 1907.

Survey completed July 28, 1907.

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BOOK 2071

FOR NAMES AND DUTIES OF ASSISTANTS.

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

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INDEX DIAGRAM.

Township 13 South, Range 12 East.

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For PRELIMINARY OATHS OF ASSISTANTS.

Reference is had to 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 }



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Survey commenced July 22, 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:-

At the cor. of Tps. 13 and 14 S., Rs. 12 and 13 E., lat. $32^{\circ}14'38''$ N.; longitude, $111^{\circ}04'37''$ W., I set off $32^{\circ}15'$ N. on the lat. arc, and $20^{\circ}23'$ N. on the decl. arc, and at 4h 30m 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 11h.31m p.m., l.m.t., 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.

July 22, 1907/

July 23, 1907. At 6 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 7h 30m a.m., l.m.t., I set off $32^{\circ}15'$ N. on the lat. arc; $20^{\circ}18'$ 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 $13^{\circ}40'$ W., the angle thus determined gives the mag. decl. $13^{\circ}40'$ E.

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Chains.

West, on a random line, on the S. bdy. of Tp., setting temp. $\frac{1}{4}$ and sec. cors. at intervals of 40.00 and 80.00 chs. At 5 miles, 78.95 chs., intersect the W. bdy. of Tp. at a point 26 lks. N. of cor. of Tps. 13 and 14 S., Rs. 11 and 12 East, which is a granite stone, marked and witnessed as described by the Surveyor General. The original bearing trees are destroyed.

Thence I run, N. $89^{\circ}58'E.$, on a true line on the S. bdy. of Tp., bet. secs. 6 and 31.

Ascending over mountainous land.

10.00 Top of ridge, extends SW. and NE.; descend.

19.90 Canon, 2.00 chs. wide, course SW.; ascend steep slope.

38.95 Set a porphyry stone, 24 x 18 x 10 ins., 18 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. Begin steep ascent.

55.95 Intersect W. end line of Buena Vista lode, whence N.W. cor. of Buena Vista lode brs. N. $7^{\circ}15'W.$, 2.10 chs. At point of intersection I set a porphyry stone 24 x 8 x 8 ins., 18 ins. in the ground for closing cor., marked C.C. on W. and B.Y. on E. faces, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

65.00 Spur, extends W., ascend along W. slope of high peak.

71.75 U.S.M.N. No. 1 on line, which is a post, 4 x 4 ins., x 4 ft. above ground, set in a large mound of stone, on top high peak. As sec. cor. point falls where it would soon be destroyed, I set a post 4 x 4 ins. x 4 ft., 24 ins. in the ground, for wit. cor. to cor. of secs. 5, 6, 31 and 32.

marked T 13 S S 32 on NE.,
R 12 E S 5 on SE.,
S 6 on SW., and
S 31 W C on NW. face, with 1 notch on W. and 5 notches on E. edge, from which,
A palo verde, 5 ins. diam., brs. S. $35^{\circ}W.$, 70 lks. dist., marked T 14 S R 12 E S 6 W C B T.
A palo verde, 4 ins. diam., brs. S. $75^{\circ}E.$, 34 lks. dist., marked T 14 S R 12 E S 6 W C B T.

No other trees available, so I raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

From this witness cor. Mineral Mon. No. 1709 on top of Amole Peak or Wasson Peak, brs. N. $5^{\circ}E.$

Descend over bluffs.

78.95 The cor. of secs. 5, 6, 31 and 32 falls on bluff. Land, mountainous. Soil, rocky and stony; 2nd and 3rd rate. No timber; undergrowth, scattering mesquite and palo verde. Mountainous land, or land covered with dense undergrowth, exceptionally difficult to survey, 78.95 chs.

N. $89^{\circ}58'E.$, on the S. bdy. of Tp., south of Sec. 32.

Over mountainous land, descending.

6.22 Intersect N. line New Strike lode at point whence Cor. No. 5, or NE. cor. of New Strike Lode brs. S. $69^{\circ}53'E.$, 9.54 chs. At point of intersection I set a porphyry stone 24 x 10 x 6 ins., 18 ins. in the ground for closing cor., marked C.C. on E. face, and N.S. on W. face, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high E. of cor.

7.00 Gulch, 2.00 chs. wide, course S.; ascend.

9.27 Intersect the W. side line of Silver Moon Mining Claim at a point from which cor. No. 3 brs. S. $19^{\circ}13'E.$, 8.85 chs. dist.

I set a granite stone, 24 x 10 x 6 ins., 18 ins. in the ground for closing cor., marked
S M on E.,
T 13 S R 12 E C C on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

18.89 Intersect the E. side line of Silver Moon Mining Claim at a point from which Cor. No. 5 brs. S. $19^{\circ}03'E.$, 5.52 chs. dist. At point of intersection I set a granite stone 18 x 10 x 6 ins., 12 ins. in the ground, for closing cor., marked,
S M on W,
T 13 S R 12 E C C on E. face, and raise a mound of

3. South Boundary of Township 13 South, Range 12 East.

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Chains. stone, 2 ft. base, 1-1/2 ft. high, E. of cor.
 29.00 Gulch, 150 lks. wide, course S.; ascend.
 32.20 Top of high ridge, extends S.; descend.
 40.00 Set a porphyry stone, 24 x 18 x 10 ins., 18 ins. in the
 ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise
 a mound of stone, 2 ft. base, 1-1/2 ft. high, N. of cor.
 Pits impracticable.
 43.15 Gulch, 50 lks. wide, course SW.; ascend.
 47.35 Top of ridge, extends N. and S.
 51.30 Head of gulch, course S.
 57.20 Head of gulch, course S.
 59.30 Gulch, course SW. Ascend steep slope.
 60.00 High peak on divide, brs. N. 30.00 chs. dist.
 64.30 Top of ridge, extends SW. and NE.
 75.30 Gulch, 70 lks. wide, course S.
 80.00 Set a porphyry stone, 18 x 18 x 15 ins., 12 ins. in the
 ground, for cor. of secs. 4, 5, 32 and 33, marked with 2
 notches on the W. and 4 notches on the E. edge, and raise
 a mound of stone, 2 ft. base, 1-1/2 ft. high, W. of cor.
 Pits impracticable.
 A palo verde, 4 ins. diam., brs. N. 36-1/2° E., 50 lks.
 dist., marked T 13 S R 12 E S 33 B T.
 A palo verde, 6 ins. diam., brs. S. 78° E., 133 lks. dist.,
 marked T 14 S R 12 E S 4 B T.
 A palo verde, 6 ins. diam., brs. S. 51-1/2° W., 68 lks.
 dist., marked T 14 S R 12 E S 5 B T.
 A palo verde, 4 ins. diam., brs. N. 65-1/2° W., 45 lks.
 dist., marked T 13 S R 12 E S 32 B T.
 Land, mountainous.
 Soil, rocky and stony; 2nd and 3rd rate.
 No timber; undergrowth, scattering mesquite, palo verde,
 and cacti.
 Mountainous land, exceptionally difficult to survey, 80.00
 chs.

N. 89° 58' E., on the S. bdy. of Tp., S. of sec. 33.
 Ascending over mountainous land.
 40.00 Set a granite stone, 20 x 10 x 8 ins., 15 ins. in the
 ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise
 a mound of stone, 2 ft. base, 1-1/2 ft. high, N. of cor.
 Pits impracticable.
 46.00 Top of high divide, extends SE. and NW. Descend steep
 slope.
 80.00 Point for cor. of secs. 3, 4, 33 and 34 falls on perishable
 ground.
 81.45 Set a granite stone, 20 x 15 x 12 ins., 15 ins. in the
 ground for witness cor. to cor. of secs. 3, 4, 33 and 34,
 marked W C on W. face, with 3 notches on the E. and W.
 edges, and raise a mound of stone, 2 ft. base, 1-1/2 ft.
 high, W. of cor. Pits impracticable.
 Land, mountainous.
 Soil, stony, 3rd rate.
 No timber; undergrowth, scattering mesquite, palo verde,
 tesota and cacti.
 Mountainous land, exceptionally difficult to survey, 80 chs.
 July 23, 1907,

July 24, 1907. At 7h. 30m., a.m., 1.m.t., I set off 20° 03' N.
 on the decl. arc, and 32° 15' N on the lat. arc, and deter-
 mine a true meridian with the solar at cor. of secs.
 3, 4, 33 and 34.
 Thence I run, N. 89° 58' E. on the S. bdy. of Tp. S. of sec. 34.
 Descending over mountainous land.
 1.45 Witness cor. on line, as described.
 7.00 Gulch, 1.00 ch. wide, course N. Ascend over broken ground.
 33.00 Gulch, 50 lks. wide, course N.; ascend.
 35.60 Top of spur, extends N. and S.; descend.
 39.90 Gulch, 50 lks. wide, course N.
 40.00 Point for 1/4 sec. cor. falls on granite boulder in place
 which I mark with a cross (x) for exact 1/4 sec. cor.
 point, and 1/4 N. of cross, and raise a mound of stone, 2
 ft. base, 1-1/2 ft. high, N. of cor. Pits impracticable.
 44.00 Top of bluff; abrupt descent, 50 ft.

chains	
51.50	Bluff, extends E., descend steep slope.
53.50	Gulch, 50 lks. wide, course N.
58.80	Head of gulch, course NE.
63.50	Head of gulch, course N.
77.50	Large quartzite boulder on line.
80.00	Set a quartzite stone, 18 X 10 X 5 ins., 12 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, 1½ ft. high, W. of cor. Pits impracticable.
	Land, mountainous.
	Soil, rocky; 3rd rate.
	No timber; undergrowth, scattering mesquite and palo verde.
	Mountainous land, exceedingly difficult to survey, 80.00 chs.

	N. 89° 58' E. on S. bdy. of tp. S. of sec. 35.
	Descending on N. side of high divide, over mountainous land,
8.90	Dry wash, 20 lks. wide, course NE.
13.50	Gulch, 50 lks. wide, course NE.
22.00	Gulch, 50 lks. wide, course N.
26.00	Dry wash, 20 lks. wide, course N.
35.50	Gulch, 35 lks. wide, course NE.
40.00	Set a quartzite stone, 18 X 12 X 10 ins., 12 ins. in the 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. Pits impracticable.
	A palo verde, 6 ins., diam., brs. S. 9° W., 33 lks. dist., marked ¼ S 2 B T, ✓
	A palo verde, 6 ins., diam., brs. N. 56° E., 83 lks. dist., marked ¼ S 35 B T. ✓
40.85	Main gulch, 80 lks. wide, course N.
45.70	Gulch, 20 lks. wide, course N. Ascend steep slope.
62.60	Gulch, 20 lks. wide, course N. Ascend steep slope.
80.00	Top of spur, extends S. High hill brs. N. 10 chs. dist. Set a conglomerate stone, 20 X 10 X 8 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. edges, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	A palo verde, 6 ins. diam., brs. N. 22½° W., 125 lks. dist., marked T 13 S R 12 E S 35 B T. ✓
	A palo verde, 4 ins. diam., brs. S. 89° E., 20 lks. dist., marked T 14 S R 12 E S 1 B T.
	No other trees available.
	Land, mountainous.
	Soil, stony; 2nd and 3rd rate.
	Timber, palo verde; undergrowth, scattering mesquite, and palo verde.
	Mountainous land, exceptionally difficult to survey, 80.00 chs.

	N. 89° 58' E. on the S. bdy. of tp., S. of sec. 36.
	Descending over mountainous land.
25.50	Main gulch, 150 lks. wide, course NE.
34.00	Top of ridge, extends N.
40.00	Set a conglomerate stone, 18 X 10 X 8 ins., 12 ins. in the 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.
47.50	Ravine course N.
51.00	Top of ridge, extends NE, descend.
56.00	Gulch, course NE.

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chains
62.00
78.20
80.00

Top of ridge, extends NE., thence along S. side of ridge.
Main gulch, 80 lks. wide, course NE.
The cor. of Tp., previously described.
Land, mountainous.
Soil, rocky; 2nd and 3rd rate.
Timber, scattering mesquite; undergrowth, mesquite, tesota, cottonwood.
Mountainous land, exceptionally difficult to survey, 80.00 chs.
July 24: At noon, I set off $30^{\circ}00'$ on the decl. arc, and observe the sun on the meridian; the resulting lat. is $32^{\circ} 15' N.$ ✓

General Description.

This township is very rough and mountainous in the southern and western parts, traversed by deep gulches, and washes. There is no timber but much undergrowth.

Line designated	True bearing	Distance	Latitude		Departure	
			N.	S.	E.	W.
S. Bdy.	S. $89^{\circ} 58' W.$	320.00 ✓		.19		320.00 ✓
Subdivision	N. $0^{\circ} 2' W.$	400.00 ✓	400.00 ✓			.24
"	N. $0^{\circ} 6' E.$	79.50 ✓	79.50 ✓		.14	
N. Bdy.	East	318.80 ✓			318.80 ✓	
E. Bdy.	S. $1^{\circ} 28' E.$	39.70 ✓		39.70	.95	
"	S. $0^{\circ} 1' W.$	39.95 ✓		39.95 ✓		.001
"	South	239.73 ✓		239.73 ✓		
"	S. $0^{\circ} 2' E.$	160.00 ✓		160.00 ✓	.09	
Convergency					.30	
			479.50	479.50	320.23	320.25
				479.50	320.25	
			Error in lat. ----- .67 ✓		.03	Err in dep,

Gene B. Wright
U. S. Deputy Surveyor.

FOR FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.
Reference is had to "Book M," S. bdy. T. 6 N., R. 12 E.

LIST OF NAMES.

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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 _____



FOR FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.
Reference is had to Book "M," S.bdy.T.6 N., R. 12 E.

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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 29, _____, 190 B.

The foregoing field notes of the survey of South bdy. of T. 13 S., R. 12 E. of the Gila and Salt River Base and Meridian in the Territory of Arizona,

executed by Jesse E. Wright, U. S. deputy surveyor under his contract No. 145, dated April 15th, _____, 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. 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.