

11.71.
Sept 5
117

1839.
D. & E.
FIELD NOTES

OF THE SURVEY OF THE BOOK 1839

Subdivisional Lines

of
Secs. 5 and 6

of
T. 10 S. R. 15 E.

1839-

Of the 1st & 2nd Principal Meridian and Meridian,

Arizona

AS SURVEYED BY

William P. Alexander, United States Deputy Surveyor,

Under his Contract No. 117, dated June 13 1894

Survey commenced July 6 October 28 1894

Survey completed October 24 1894

1839

NAMES AND DUTIES OF ASSISTANTS.

BOOK 1839

Throta

"F."

See

Dubois T. D. R. 16 16

BOOK 1839

INDEX DIAGRAM.

Township 10 S, Range 15 E

6	5	5	✓ 4	3	2	1
7	H 4	2+3	8	9	10	11
18	17	16	15	14	13	12
19	20	21	22	23	24	25
30	29	28	27	26	25	24
31	32	33	34	35	36	37

Meanders Page.....

WE, and
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over 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

See Book T. 10 P. 16

....., Chainman.
....., Chainman.

Subscribed and sworn to before me this }
day of, 189



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

See Book T. 10 P. 16

....., Moundman.
....., Moundman.

Subscribed and sworn to before me this }
day of, 189



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

See Book T. 10 P. 16

....., Axman.
....., Axman.

Subscribed and sworn to before me this }
day of, 189



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

See Book T. 10 P. 16

....., Flagman.

Subscribed and sworn to before me this }
day of, 189



(13)

This Tp. being extremely mountainous, it is impossible to survey it in the regular manner; therefore I proceeded as follows:

Survey commenced Oct. 27th, 1904, and executed with a Young & Sons Light Mountain Transit No. 7520 with a Smith solar attachment; the horizontal limb having two double verniers reading to single minutes of arc, which is also the least possible reading of the decl. and lat. arcs.

The instrument was examined, tested on the true meridian, at Phoenix, Arizona, found correct and approved by the Surveyor General for Arizona June 25th, 1904.

I begin at the cor. of secs. 4-5-32-33 on the N. bdy. of the Tp., previously established by me ~~at~~ⁱⁿ lat. $32^{\circ} 37' - 1/2'$ N., long. $116^{\circ} 49' 1/2''$ W. I examine bubble collimation and standard adjustments and find them to be correct. In order to test the solar apparatus by comparing the results of observations on the sun made during a.m. and p.m. hours with a true meridian determined by observation on polaris, I proceed as follows:

At 4 h. 15 m. p.m., l.m.t., I set off $12^{\circ} 51'$ S. on the decl. arc, $32^{\circ} 37' - 1/2'$ N. on the lat. arc, and mark a meridian determined by solar observation by a tack driven in a stake set firmly in the ground about 5 chs. N. of my station.

October 27th, 1904.

October 28th, 1904; At 5 h. 03.3 m. a.m. l.m.t., I observe polaris at western elongation in accordance with instructions given in the Manual, and mark the line thus established by a tack driven in a stake set firmly in the ground about 5 chs. N. of my station.

At 7 h. 20' a.m. l.m.t., I lay off the azimuth of polaris $1^{\circ} 25' - 1/2'$ to the E. of the stake, set last night and mark the meridian thus established by a tack driven in the stake set ~~yesterday~~; the meridian falls .14 ins. E. of the mark determined by solar observations.

At 7 h. 45 m. a.m. l.m.t., I set off $13^{\circ} 4' - 1/2'$ S. on the

Chains

declination arc, $32^{\circ} 37\frac{1}{2}'$ N. on the lat. arc, and mark a meridian established by solar observation by a tack driven in the stake already set; this mark falls .17 ins. W. of the meridian established by polaris observation.

The difference in direction of the meridian as established by solar and polaris observations is so slight that I conclude the adjustments of the instrument are satisfactory. Var. $^{\circ} 13 15'$ E.

S. $0 2'$ E. on a true line bet. secs. 4-5 over sharply rolling ground.

- 5.70 Wash 25 lks. wide bears W.
- 10.60 Wash 15 lks. wide bears W.N.W.
- 26.70 Gulch bears S.W. tributary to Canada del Oro.
- 37.40 Wash 20 lks. wide, bears W.S.W. Ascend.
- 40.00 Set a granite stone 11 x 12 x 17 ins. ~~17~~ ins. in the ground for $\frac{1}{4}$ cor. bet. secs. 4-5, marked $\frac{1}{4}$ on W. face; raise a mound of stones 2 ft. base 2 ft. high W. of cor. Pits impracticable.
- 44.00 Top of ridge, bearing S.W.
- 62.20 Wash, 50 lks. wide, bears W. by S.
- 71.00 Top of prominent ridge.
- 80.00 Set a granite stone 7 x 13 x 17 ins. ~~17~~ ins. in the ground for cor. of secs. 4-5-8-9 marked with 4 notches on the E. and 5 notches on the S. edges; raise a mound of stones 4 ft. base 2 ft. high W. of cor. Pits impracticable.
- Land extremely rough; soil stony, 4th rate; very little undergrowth or timber.
- Mountainous land 80.00 chs.
-
- From the cor. of secs. 5-6-31-32 ~~1~~ on N. bdy. of T.10 S. R. 15 E., I run S. $0 3'$ E. on a true line bet. secs. 5-6
- 2.40 Ridge bears E.N.E.
- 15.60 Wash 20 lks. wide, bears W.S.W.
- 18.55 Road to Oracle bears E. by N.
- 22.00 Wash 30 lks. wide bears W.

Chains	
37.00	Prominent point of land bears N.E.
40.00	Set a granite stone 12 x 12 x 15 ins. 10 ins in the ground for 1/4 cor. bet. secs. 5-6-, marked 1/4 on W. face; raise a mound of stones 3 ft. base 3 ft. high W. of cor.
51.50	Road bears N.E. to Oracle.
53.30	Road bears E. to Copper Hill shaft.
54.10	Trial bears N.W.
64.00	Wash 10 lks. wide bears W.
80.00	Set a granite stone 6 x 8 x 15 ins. 10 ins in the ground for cor. of secs. 5-6-7-8 marked with 5 notches on the E and S/ edges; raise a mound of stones 2 ft. high W. of cor. Pits impracticable.
	Coplen's adobe house bears N. 31 21' W.
	Shaft with hoist bears N. 24 30' W.
	Land mountainous; soil 2nd and 3rd rates; no timber; good grazing. Mountainous land 80.00 chs.

	October 28th, 1904; I set off 13° 9' S. on the decl. arc and at 12 h. observe the sun on the meridian at the cor. of secs. 4-5-8-9; the resulting lat. is 32° 37' N. Thence I run W. on a random line bet. secs. 5-8.
40.00	Set temp. 1/4 sec. cor.
79.88	Intersect N. and S. line at cor. of secs. 5-6-7-8. Thence I run E. on a true line bet. secs. 5-8.
20.00	Spur bears N.
31.10	Top of prominent ridge. Coplen's adobe house bears N. 61 30' W. Shaft with hoist bears N. 61 15' W.
39.94	Set a granite stone 7 x 7 x 15 ins. 10 ins. in the ground for 1/4 cor. bet. secs. 5-8, marked 1/4 on N. face; raise a mound of stones 2 ft. base 2 ft. high N. of cor.
48.94	Enter patented claim Gold Hill, lot No. 1547; S.E. cor. bears S. 65 38' E. 4.85 chs. dist.
	Road in wash 25 lks. wide bears S.E.
49.90	Small frame house bears S. 36 30' E.
	Small frame house bears S. 11 30' E.

Chains

- Small frame house bears N. 80 00' E. about 5 chs. dist.
 Main shaft with hoist bears N. 1 30' W.
- 51.35 Wash 50 lks. wide bears S. at this point.
- 54.13 Intersect N' line common to Gold Hill and Fraction patented mining claim, lot No. 1547; the S. side end cor. bears S. 21° 15' W., 2.14 chs. dist.
- 58.85 Intersect end line common to patented mining claims Rattlesnake and Fraction; center end post common to both claims bears S. 21° 15' W. 1.25 chs. dist.
- 59.50 Small frame house bears S. 33 30' W.
 Small frame house bears S. 66 8' W..
 Main shaft with hoist bears N. 74 55' W.
- 60 00 Spur bears S.W.
- 64.97 Leave patented mining claims Rattlesnake, Lot No. 1547, Copper Hill group; N.W. cor. bears N. 58°-6' W. 5.80 chs. dist.
- 68.00 Small wash bears S.S.W. Ascend.
- 77.00 Spur bears S.W.
- 79.88 Cor. of secs. 4-5-8-9 .
 Land mountainous; soil and and 3rd rates; west one-half mile good grazing; scattered undergrowth of mesquite and cacti. Mountainous land 79.88 chs.
-
- W. on a true line bet. secs. 6-7. Descend over rolling land.
- 11.75 Cor. of secs. 1-12 T. 10 S., R. 14 E. bears South 9.10 chs. dist
 Set a granite stone 6 x 12 x 15 ins. 10 ins. in the ground for closing cor. of secs. 6-7, marked C.C. on E. face; with 1 notch on N. and 5 notches on S. edges; raise a mound of stones 2-1/2 ft. base 2-1/2 ft. high E. of cor.
 Land sharply rolling; good grazing; no timber; soil 3rd rate.
 Mountainous land 11.75 chs.
-
- From the cor. of secs. 5-6-7-8 I run S. 0 3' E. on a true line bet. secs. 7-8 over roughly rolling ground.
- 13.00 Gulch bears S.W.
 22 .00 Ridge bears S.W.

Chains

- 29.00 Wash 15 lks. wide bears S.W.
- 32.00 Spur bears W.S.W.
- 35.20 Wash 15 lks. wide bears W. by N.
- 40.00 Set a granite stone 8 x 8 x 12 ins. 8 ins. in the ground
for 1/4 cor. bet. secs. 7-8 marked 1/4 on W. g face;
raise a mound of stones 2 ft. base 2 ft. high W. of cor.
- 45 50 Gulch bears W.N.W.
- 51.00 Ridge bears S.W. Descend.
- 61.00 Spur bears S.E. Descend abruptly from Canada del Oro.
- 80.00 Falls in Canada del Oro wash.
- 80.50 Middle of wash, bears W. at this point.
- 83.10 Road bears W.
- 83.30 Set a granite stone 7 x 8 x 20 ins. 15 ins. in the ground
for a W.C. to cor. of secs. 7-8-17-18 marked W.C. on S.
with 5 notches on E. and 4 notches on S. edges; raise a
mound of stones 2-1/2 ft. base 2 ft. high W. of cor.

Land roughly broken; soil 4th rate, some mesquite and cacti undergrowth. Mountainous land 83.30 chs.

October 28th, 1904.

The extreme mountainous condition of this Tp. and the absence of settlers therein renders further survey impracticable.

Boundaries of T. 10 S., R. 15 E.
Latitude, departures and closing errors.

Line Designated	True b'r'g:	Dist.:	Latitudes		Longitudes	
			N.	S.	E.	W.
		Chs.	Chs.	Chs.	Chs.	Chs.
Mile east of sec. 5	: S. 0 2'E	: 80.00		: 80.00	: 0.05	
Mile south of sec. 5	: West..	: 79.88				: 79.88
Closing dist. S. of sec. 6	: "	: 11.75				: 11.75
W. bay of sec. 6	: North....	: 79.88	: 79.88			
The closing dist. N. of sec. 6	: East..	: 11.70			: 11.70	
Mile N. of sec. 5	: East.....	: 80.00			: 80.00	
Convergency	: East.....				: 0.02	
Totals			79.88	: 80.00	: 91.77	: 91.63
Errors....			.12			.14

Oct 28 1904
William B. Alexander
U.S. Dep. Surveyor

LIST OF NAMES.

BOOK 1839

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:

See Book "F"
Date T. 10 P. R. 16

- _____, *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 _____

See Book "F"

- _____, *Chainman.*
- _____, *Chainman.*
- _____, *Moundman.*
- _____, *Moundman.*
- _____, *Axman.*
- _____, *Axman.*
- _____, *Flagman.*

Subscribed and sworn to before me this _____ day of _____, 189 _____



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

124 (6) BOOK 1839

....., 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, 189 .., 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; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Wm B Alexander
T. L. D.

.....
United States Deputy Surveyor.

Subscribed by said, and sworn to before me }
this day of, 189 ..



See

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Theemis, Arizona Oct. 10, 1905
The foregoing field notes of the survey of *the final subdivisions of T9 S. R. 15 E. of the Gila & Salt River Base and Meridian in the territory of Arizona*

executed by *Wm B Alexander U S Deputy Surveyor* under his contract No. *117*, dated *June 12th 1905*, 189 .., 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. Agall
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.