

Accepted, dept letter June 28, 09

Book E

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2099

BOOK 2099

FIELD NOTES

OF THE SURVEY OF THE

2099

SUBDIVISION OF FRAC. T. 14 S. R. 29 E.

2099

Within the Camp Bowie Military Reservation, abandoned.

2099

Of the Gila and Salt River Base and Meridian,

Arizona.

AS SURVEYED BY

Jesse B. Wright, United States Deputy Surveyor,

Under his Contract No. 149, dated June 13, 1908.

Survey commenced October 18, 1908

Survey completed October 20, 1908

2099

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NAMES AND DUTIES OF ASSISTANTS.

Walter L. Morrison Chairman

Walter Percival "

Harvey H. Cook "

Manuel Vardola, Treasurer

Santiago Vardola, Flagman

Frank Gauss, Recorder

BOOK 2099

INDEX DIAGRAM.

Township 14 S., Range 29 E

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

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PRELIMINARY OATHS OF ASSISTANTS.

See Preliminary Oath in Book "D"

WE, _____ and *Pub. T 14 D R 285*

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



CHAINS

Survey begun Oct. 18, 1908 and executed with a W. & L. E. Gurley light mountain transit, special, with Burt patent solar attachment, the plates of the instrument reading by opposite verniers to 1' of arc, and the lat. & decl. arcs reading by verniers to 30" of arc.

Having tested and adjusted the levels and line of collimation of the instrument, and the polar axis of the solar, and finding same satisfactory,

at 4.00 p.m., l.m.t. I set off $9^{\circ}43'S.$ on the decl. arc and $32^{\circ}10' N.$ on the lat. arc, I determine a meridian with the solar at the cor. of secs. 31, 32, 5 & 6 on S. b'd'y, and mark the mer. thus determined by a tack driven in a stake set 6 chs. N. of my station.

Oct, 19, 1908, at 5h 28m, l.m.t. I observe polaris at W. elong. in accordance with instructions in the manual, and mark the line thus determined by a tack in a stake driven in the ground 6 chs. N. of my station.

At 8 a.m., I set off the azimuth of polaris, $1^{\circ}24'$ to the East and mark the mer. thus determined by a tack in a stake 6 chs N. of my station, which mer. is $1/4'' E.$ of the mer. determined by the solar on preceding evening. Then I set off $9^{\circ}57' S.$ on the decl. arc. and $32^{\circ}10' N.$ on the lat. arc and determine a mer. with the solar, which mer. is $1/8'' E.$ of the mer. determined by polaris obs. Hence I conclude that my instrument is in satisfactory adjustment.

Thence I run,

$N.0^{\circ}1'E.$ bet. secs. 31 & 32, Var. $13^{\circ}10'E.$

Over rolling land asc. grad.

20.00 Enter dense mesquite and greasewood.

40.00 Set a limestone $30 \times 15 \times 12$ ins. $22-1/2$ ins. in the ground for $1/4$ sec. cor marked $1/4$ on W. face and raise a mound of stone 2 ft. base $1 1/2$ ft. high W. of cor.

No bearings avail.

80.00 Set a limestone $24 \times 24 \times 18$ ins 18 ins. in the ground for cor. of secs. 29, 30, 31 & 32, marked with 1 groove on S. and 5 grooves on E. faces and raise a mound of stone 2 ft. base $1 1/2$ ft. high W. of cor.

No bearings avail.

Land rolling,

Soil, 2nd & 3rd rate, gravelly,

No timber.

Undergrowth, dense greasewood, & scattering mesquite.

Rolling land covered with dense undergrowth, 80.00 chs.

West on a random line bet. secs. 30 & 31

40.00 Set temp. $1/4$ sec. cor.

79.80 Intersect W. b'd'y at cor. of secs. 25, 30, 31 & 36,

Whence I run,

East on a true line bet. secs. 30 & 31.

Over rolling land through greasewood, cactus and mesquite.

3.00 Old road, SE & NW

6.30 Telephone line, brs. SE & NW.

38.50 Dry wash 80 lks widw course N.

39.90 Set a limestone $24 \times 12 \times 6$ ins. 18 ins. in the ground for $1/4$ sec. cor. marked $1/4$ on W. face and raise a mound of stone 2 ft. base $1 1/2$ ft. high N. of cor.

No bearings avail.

49.50 Main dry wash 80 lks. wide course N.

57.50 Dry wash 30 lks. wide, course N.

74.00 Dry wash 20 lks. wide course N.

76.00 Dry wash 50 lks. wide course N.

79.80 TO cor. of secs. 29, 30, 31 & 32.

Land rolling.

Soil 2nd & 3rd rate, gravelly.

No timber.

Undergrowth dense greasewood and mesquite.

Land covered with dense undergrowth 79.80 chs.

At this cor at 11h. 45m. l.m.t. I set off $10^{\circ}02' S.$ on the decl. arc and obs. the sun on the mer.

The resulting lat. is $32^{\circ}10' N.$

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CHAINS	N.0°1'E bet. secs. 29 & 30, Over rolling land desc. grad. thro' dense greasewood Dry wash 50 lks. wide course NE. Intersect N. b'd'y of Camp Bowie Abandoned Mil. Res. 14.90 chs. E. of 17 mile cor. Set a Limestone 24x12x8 ins. 18 ins. in the ground for Closing cor. marked C.C. on S. P.L. on N., and 5 grooves on E. faces and raise a mound of stone 2 ft. base 1 1/2 ft. high S. of cor. No bearings avail. Land rolling, soil, 2nd rate gravelly. No timber. Undergrowth, dense grease wood & scat'g mes. Rolling land covered with dense undergrowth 39.85 chs.
3.00	N. 0° 01' E. bet. secs. 32 & 33. Over mts. land asc. thro' dense greasewood. Top of butte N. & S. desc.
30.00	Dry wash 50 lks. wide , course NE. asc. grad.
40.00	Set a granite stone 24x15 x10 ins 18 ins. in the ground for 1/4 sec. cor marked 1/4 on W. face and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. No bearings avail. This cor. is on top of flat butte, brs. E. & W. Desc. grad.
49.25	Road E. & W., foot of slope.
80.00	Set a quartz stone 30x12x8 ins 24 ins in the ground for cor. of secs. 28,29,32 & 33 marked with 1 groove on S. and 4 grooves on E. faces and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. No bearings avail. Land mts., Soil 2nd & 3rd rate gravelly, No timber. Undergrowth dense greasewood. 50.00 chs Mts. land, 3000 chs. land covered with dense undergrowth.
	Oct. 19, 1908.
	Oct. 20, 1908.
	At 8 a.m., l.m.t., I set off 10°19' S. on the decl. arc and 32°11' N. on the lat. arc and determine a mer. with the solar at the cor. of secs. 28,29,32 & 33, Thence I run, West, on a random line bet. secs. 29 & 32.
40.00	Set. temp. 1/4 sec. cor.
79.90	Intersect N. & S. line 5 lks S. of the cor. of secs. 29,30,31 & 32, whence I run, S. 89°58' E. on a true line bet. secs. 29 & 32. Over rolling land sloping gently to N. through dense greasewood.
24.00	Dry wash 80 lks. wide 20 ft. deep , course N.N.E.
39.95	Set a limestone 30x18x10 ins 24 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. No bearings avail.
75.15	Enter main dry wash , runs N.N.E.
77.00	Leave wash.
79.90	To cor. of secs. 28,29,32, & 33 . Land rolling, soil 2nd & 3rd rate, gravelly, sandy. No timber. Undergrowth dense greasewood. Rolling land covered with dense undergrowth, 79.90 chs.
	N.0° 01' E. bet. secs. 28 & 29. Over rolling land, covered with dense greasewood.
2.00	Enter dry wash from S.S.W. , runs N.N.E.
5.00	Mouth of wash from S.S.W.
6.20	Leave wash, runs N.N.E., desc. grad.

CHAINS
39.00

Intersect N. b'd'y of Camp Bowie abandoned Mil. Res.
14,71 chs. E. of 16 mile cor.
Set a Limestone 24x15x10 ins. 18 ins. in the ground for
closing cor. marked C.C. on S., P.L. on N., and 4 grooves
on E. faces and raise a mound of stone 2 ft. base 1 1/2
ft. high S. of Cor.
No bearings avail.
Land rolling,
Soil 2nd rate, gravelly, sandy.
No timber.
Undergrowth, dense greasewood.
Rolling land covered with dense undergrowth ,39.00 chs.

17.00

East bet. secs. 28 & 33,
Over rolling land, through dense greasewood.
Dry wash 50 lks. course N.

34.45

Road, N. & S.

40.00

Set a granite stone 18x12x8 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.
No bearings avail.

61.64

Intersect E. b'd'y of Camp Bowie Abandoned Mil Res.
4.57 chs. N. of 14 1/2 mile cor.
Set a granite stone 33x18x15 ins. 24 ins. in the ground
for closing cor. marked C.C. on W. P.L. on E. and 1 groove
on S. faces, dig pits 30x24x12 ins N. & S. 3 ft. and W.
of cor. 7 ft. dist. and raise a mound of earth 3 ft. base
2 ft. high W. of cor.
No bearings avail.
Land rolling.
Soil 2nd rate, gravelly sandy.
No timber.
Undergrowth, dense greasewood, and scattering mesquite.
Rolling land covered with dense undergrowth 61.64 chs.

GENERAL DESCRIPTION.

This frac. Tp. lies along the N. side of the Chiricahua
Mts. in a rolling plain covered mostly with a dense
undergrowth of greasewood, with some mesquite.
There is no timber in the Tp., nor is there any good graz-
ing land, though the soil is good and the native grass is
abundant in the few open spaces.
The soil in the N.E. portion is a fine sandy loam and with
irrigation would produce well.
There is no water in the Tp., though there are several good
springs south of the S. b'd'y where water could be
developed for irrigation.
.Oct. 20, 1908.

Jesse B. Wright
U.S. Deputy Surveyor.

*For authority for red ink corrections
see Deputy's lettering Nov. 14 - 1908*

For FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.
See Book V. Rules of T14 P R 28 E.

LIST OF NAMES.

A list of the names of the individuals employed by BOOK 2099

....., 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.

See final oath in book "D" Rules of T14 P R 28 E.
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.

see Book N. Pub. of T. 14 S. R. 28 E

BOOK 2099

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, Ariz. April 14, 1909

The foregoing field notes of the survey of the subdivision lines of that portion of T. 14 S. R. 29 E lying within the Camp Bowie abandoned Military Reservation, Arizona

executed by _____ U.S. Deputy Surveyor under his contract No. 149, dated June 13, 1908, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

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.