

PRELIMINARY OATHS OF ASSISTANTS.

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 _____, 19 _____



"B" and "G"

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 _____, 19 _____



Subdivisional

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 _____, 19 _____



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 _____, 19 _____



199
1A

BOOK 2376

SUPPLEMENTAL SUBDIVISIONAL BOOK "E"
INDEX DIAGRAM.

Township 20 N, Range 19 W

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

See Orig. Notes Book "E"
pages 3, 4 & 5

Meanders Page _____

For NAMES AND DUTIES OF ASSISTANTS.

BOOK 2376

See Subdivisional Books "B" & "G"

Accepted 3. L. O. Letter E. April 28-1913.
4-679.

198

Book *E*, BOOK 2376

FILED 24 1913

Supplemental Subdivisional

1267-1912

FIELD NOTES

OF THE SURVEY OF THE

Connections of Subdivisional Lines

in

T 20 N R 19 W

Of the *Sixth* *Section* *Range* *East* Meridian,
Arizona

AS SURVEYED BY

William Alexander, United States Deputy Surveyor,

Under his Contract No. *156*, dated *May 26*, 1909.

Survey commenced *January 13*, 1912.

Survey completed *January 17*, 1912.

Supplemental notes Subdivisions in Township 20 North, Range 19 W. 1. B

Chains.

Survey commenced January 13, 1912, and was executed with a Young and Sons' light mountain transit No. 7520 fitted with two double verniers to the horizontal plate reading to single minutes of arc, which is also the least reading of the lat. and decl. arcs of the Smith Solar Attachment with which this instrument is also fitted. I examine the standard and bubble adjustments and find them to be correct. This instrument was examined, tested on the true meridian at Phoenix, Arizona, found correct, and was approved by the U. S. Surveyor General June 25, 1904.

At the original cor. of secs. 13, 14, 23 and 24 of T. 20 N., R. 19 W., recently established and described by me, I establish a true meridian in accordance with instructions in the Manual as follows:

At 4h. 0m., p.m., l.m.t., I set off $21^{\circ}31\frac{1}{2}'S.$ on the decl. arc, $35^{\circ}07'N.$ on the lat. arc, and determine a meridian with the solar. I mark the line thus obtained by a tack driven in a stake set about 5 chs. north of my station.

At 11h. 54m. p.m., l.m.t., I observe Polaris at its western elongation, and after turning off the azimuth of Polaris $1^{\circ}25'$ to the east, I mark the true meridian thus obtained by driving a tack in the stake set by solar observation. The p.m. solar meridian falls $\frac{1}{4}$ of an inch east of the true meridian.

January 13, 1912.

January 14, 1912. at above described cor.

At 9h. 0m., a.m., l.m.t., I set off $35^{\circ}07'N.$ on the lat. arc; $21^{\circ}25\frac{1}{2}'S.$ on the decl. arc, and determine a meridian with the solar. This line coincides with the true meridian set last night by Polaris observation. Magnetic variation, $N. 15^{\circ}00' E.$

- Thence I run,
N. $89^{\circ}56'E.$ on a random line, between secs. 13 and 24.
40.00 Set a temp. $\frac{1}{4}$ sec. cor., and destroy the cor. formerly set by me.
- 79.90 Intersect the Fifth Guide Meridian West at a point 19 lks. north of the corner of secs. 13, 18, 19 and 24, recently re-established and described by me.
- Thence I run,
N. $89^{\circ}56'W.$, on a true line, between secs. 13 and 24.
Over rolling land, covered with dense undergrowth of greasewood, yucca, catsclaw and cactus.
- 14.00 Draw, course SEE.
29.00 Draw, course NEE.
39.95 Set a granite stone $6x7x15$ ins., 10 ins. in the ground for the $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on the N. face, and raise a mound of stones 3 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
- 64.70 Draw, course SE.
79.90 The cor. of secs. 13, 14, 23 and 24 heretofore described.
Land, rolling.
Soil, 3rd rate.
Dense undergrowth of greasewood, yucca, catsclaw, and cactus.
Scattering grass.
Rolling land, covered with dense undergrowth, and exceptionally difficult to survey, 79.90 chs.

I then proceed to the cor. of secs. 11, 12, 13 and 14, as described in my original notes.

- Thence I run,
S. $89^{\circ}56'E.$ on a random line, between secs. 12 and 13.
40.00 Set a temp. $\frac{1}{4}$ sec. cor., and destroy the corner formerly set by me.
- 80.00 Intersect the Fifth Guide Meridian West, 4 lks. north of the corner of secs. 7, 12, 13, and 18, recently re-established and described by me.

SEE ORIGINAL NOTES IN SUBDIVISIONAL BOOK "E" PAGES 3 & 4

2. Supplemental notes Subdivisions in Township 20 North, Range 19 W.

Chains.

Thence I run,
N.89°54'W. on a true line, between secs.12 and 13.
Over rolling land, covered with dense undergrowth of
greasewood, cactus and catsclaw.
9.00 Wash, course SE., 20 lks.wide.
40.00 Set a granite stone 6x8x12 ins., 8 ins. in the ground for
the $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on the N.face, and raise a
mound of stones 3 ft.base, 1 $\frac{1}{2}$ ft. high, N.of cor. Pits
impracticable.
80.00 The cor.of secs.11,12,13 and 14, heretofore described.
Land, rolling.
Soil, 2nd rate.
Dense undergrowth of greasewood, cactus and catsclaw.
Scattering dry grass.
Rolling land, covered with dense undergrowth and excep-
tionally difficult to survey, 80.00 chs.

I then proceed to the cor.of secs.1,2,11 and 12, recently
established and described by me in my original notes.
At the point set off 21°25'36" on the decl. arc, and observe
the sun on the meridian. The resulting latitude read-
ing is 34° 08 $\frac{1}{2}$ ' N.

Thence I run,
S.89°54'E., on a random line, bet. secs.1 and 12.
40.00 Set a temp. $\frac{1}{4}$ sec.cor., and destroy the corner formerly
set by me.
80.16 Intersect the Fifth Guide Meridian West at the corner of
secs.1,6,7 and 12, recently reestablished and described
by me.

Thence I run,
N.89°54'W., on a true line, between secs.1 and 12.
Over sharply rolling land, covered with dense undergrowth
of greasewood, cactus and catsclaw.
Ascend.

15.00 Ridge bears NW. and SE. Descend.
26.00 Wash, 15 lks.wide, course SE.
32.50 Wash, 30 lks.wide, course SE.
38.80 Wash, 30 lks.wide, course SE. Ascend.

40.00 Wash, 3 lks.wide, course SE. Ascend.
40.00 Set a granite stone 7x8x15 ins., 10 ins.in the ground for
the $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on the N.face, and dig pits
18x18x12 ins. E.and W.of stone, 3 ft. dist., and raise
a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N.of cor.
80.16 The cor.of secs.1,2,11 and 12, heretofore described.

Land, rolling.
Soil, 2nd rate.
Dense undergrowth of greasewood, cactus, and catsclaw.
Scattering grass.
Land rolling, covered with dense undergrowth, and excep-
tionally difficult to survey, 80.16 chs.
January 14, 1912.

I then proceed to inspect the west half of this township
with the intention of surveying the same, and find
that it is covered with high mountains, bordered with
cliffs and loose rock slides. I therefore declare it
unsurveyable.

January 17, 1912.

William P. Alexander

U. S Deputy Surveyor.

SEE ORIGINAL NOTES IN SUBDIVISIONAL BOOK "E" PAGES 4 & 5

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

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 _____, 19 _____ }



3 202
BOOK 2376

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, W. B. Alexander, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from the United States Surveyor General for Subdivision, bearing date of the 15th day of May, 1909, 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 the meridian, in the of Arizona, 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.

W. B. Alexander

United States Deputy Surveyor.

Subscribed by said W. B. Alexander, and sworn to before me }
this 15th day of May, 1909



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona Feb. 26, 1913

The foregoing field notes of the ~~survey of~~ the

*Corrections of Subdivision lines in Tp. 20 North,
Range 19 West, Gila and Salt River Base and Meridian
Arizona*

executed by William B. Alexander, U.S. Deputy Surveyor
under his contract No. 156, dated May 26, 1909, 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 Arizona, has been correctly copied from the original notes on file in this office.

United States Surveyor General.