RESURVEY
6th Std. Parallel T25NR 4E.
M. Caudle.

NOV 11 1903

BOOK 1238

See Book "F" Supplemental notes

1238

BOOK 1238

4–671

FIELD NOTES

GENERAL LAND OFFICE.

No. 1238

No. 1238 BOOK 1238

"4"
~~BOOK A.~~

Field Notes
of the survey of the
Sixth Standard Parallel North.
through
Range No. 4 East.
of the
Gila and Salt River Base and Meridian
in the
Territory of Arizona
as surveyed by
Marvin Candle
U.S. Deputy Surveyor.
Under his Contract No. 97
Dated June 30, 1902

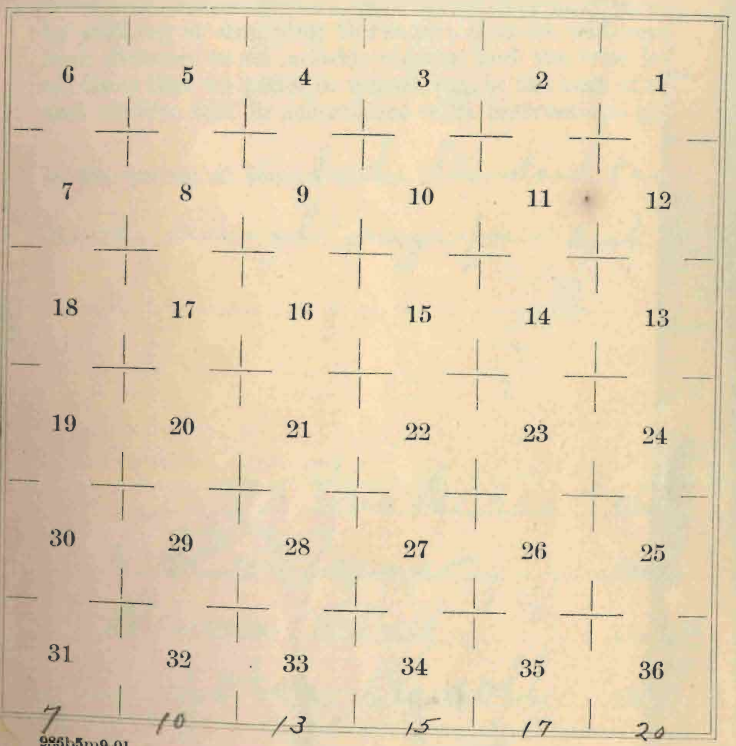
Survey commenced June 29, 1903
Survey completed July 2, 1903

2

BOOK 1238

4—674.

Township 25 North R. 4 EAST.



2A

PRELIMINARY OATHS OF ASSISTANTS.

We, O E Brashears R E Dyer Herman Schulz

and John Agnoll

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 distance to all notable objects, and the true length 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 the Sixth Standard Parallel

North through range four East

O E Brashears, Chainman.

R E Dyer, Chainman.

Herman Schulz, Chainman.

John Agnoll, Chainman.

Subscribed and sworn to before me this 29th

day of June, 1903

Marion Gaudle

U S Deputy Surveyor

2B

We, Arthur T Burns

and Milton Farnsworth

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, and to the best of our skill and ability, in the survey of the Sixth Standard Parallel North through range four East

BOOK 1238

Arthur T Burns, Axman.

Milton Farnsworth, Axman.

Subscribed and sworn to before me this 29th day of June, 1903.

Mowry Caudle

U.S. Deputy Surveyor.

3C

I, Joseph H. Dewees

do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, and to the best of my skill and ability, in the survey of the Sixth Standard Parallel North through range four East

BOOK 1238

Joseph H. Dewees, Flagman.

Subscribed and sworn to before me this 29th day of June, 1903.

Marion Gamble

U S Deputy Surveyor

15264b250-7-1900

ixth Standard parallel N. through R. 4 E.

Survey commenced June 29, 1903
and executed with a W. & L. E.
Gurley - light mountain transit
Solar
(not numbered) the horizontal limb
having two double verniers placed
opposite each other and reading
which is also the least count of the vernier of the
to 30" of arc, latitude and declination arcs.

The instrument was examined
tested and found correct at Phoenix
and was approved by the surveyor
general for Arizona. Sept 19, 1902.

I begin at the Stand and corner of
Tps 2 S N R 4 E S which is a cedar
post 4 x 4 ins firmly set ~~and~~ witnessed and marked as described
by surveyor general.

In order to test the solar apparatus by
comparing the results of observations
made on the sun during A M and

4

BOOK 1238

Sixth Standard Parallel N. through R. 4 E.

P.M. Course with a true meridian determined by observations on Polaris I proceed as follows:
At 5 P.M. l.m.t. I set off 35° 28' N. on lat arc. 23° 17' N on decl arc and mark the true meridian thus determined with the solar by a plug set firmly in the ground 5 chs north of my station.

June 29 1903

June 30, 1903. At a point aforesaid corner in lat. 35° 28' 01.6" N long. 111° 53' 31.4" W. at 3.1 A.M. l.m.t. I observe Polaris at Eastern elongation in accordance with instructions in the Manual and mark the line thus determined by a tack driven in the plug already set

Sixth Standard Parallel N through R 4 E.

5 chs north of my station
At 6 A.M. L.m.t. I lay off the azimuth of Polaris 1°29' to the west and mark the true meridian thus determined by a mark in the plug set last evening on which the true meridian falls 0.2 ins. West of the mark determined by the solar.
At 8 A.M. I set off 35°28'30" N. on lat. arc. 23°14'21" N. on decl. arc and mark the true meridian determined with the solar by a mark already set 5 chs north of my station. This point falls 0.3 in west of the true meridian established by the Polaris observation. The magnetic bearing of meridian is N 18°25' W which is declination by the table page 100 in the manual. Thus the magnetic decl. N. 18°20' E
The solar apparatus by P.M. and A.M. observations defines positions for the true meridian about 0.11" and 0.16" west

BOOK 1238

Sixth Standard Parallel N. through R. 4 E.

of the meridian established by the Polaris observation. I therefore I conclude the adjustments of the instrument are satisfactory

From the stand and corner above described I run

✓ Should be N 27

West on a random line and at 15.27 chs fall 7 links south of the closing corner of Tps 24 N Rs 4 & 5 east which is a malapais stone 12 x 12 x 6 ins above ground with mound and marked as described by the survey or general. I continue line from this corner and at 481.27 chs fall 98 links south of stand and corner of Tps 24 & 25 N Rs 3 & 4 east previously described.

The following answers to a

Sixth Standard Parallel N through R. 4 E.

correction of 0°07'S 16. lks.s per mile. counting from the closing corner of Tps 24 & 25 N Rs 4 & 5 E.

Thence I run

S 89°53'E marking and blazing true line along S. bdy of sec. 31 destroying old corners.

June 30 1903

July 1 1903 At 8 A.M. l.m.t. I set off 35°28' N on ~~lat~~ arc 23°10' 30" N on decl arc and determine a true meridian with the solar at the stand ard corner of Tps 24 & 25 N Rs 3 & 4 E.

Thence I run

S 89°53'E.

along S bdy of sec 31

Over rolling land through brush

BOOK 1238

Sixth Standard Parallel N through R 4 E

11.20	Enter thick pinon and cedar; ascend gradually
26.00	Top of 50 ft ascent bears N. and S. descend gradually.
30.00	Foot of 60 ft descent bears N and S.
32.50	Drain course N.
35.75	Leave heavy timber bears N.E. & S.W.
	Difference between measurements of 40.00 chs by two sets of chainmen is 6 links. position of middle point by first set 39.97 by second set 40.03 mean of which is
40.00	Set a malapais stone 18 x 10 x 6 ins 12 ins in the ground for standard ¼ sec. cor. mkd ¼ SC on N. face; raise a mound of stone 2 ft base, 1½ ft. high N. of cor. Pits impracticable from which

Sixth Standard Parallel through R 4 E.

A pine 12 ins. in diam bears N 73° 30' W 272 lks. dist; mkd S.C. & S 31 B T
no other trees in limit

51.70 Drain, course N.W.

59.50 Road bears N.W. & S.E.

Difference between measurements of 80.00 chs by two sets of chainmen is 4 lks; position of middle point;
By first set 80.02 chs.
By second set 79.98 chs. the mean of which is

80.00 ✓ Set a malapais stone 20 x 10 x 8 ins 15 +4 ins. in the ground for standard cor. of secs 31 and 32. mkd S.C. on N with five grooves on E and one groove on W. faces; from which
A pine 12 ins. in diam., bears N 51° 45' E 5.6 lks dist mkd S.C. T 25 N R 4 E S 32 B T
A pine 18 ins in diam bears N 16° 25' W 12.6 lks dist mkd S C T 25 N R 4 E S 31 B T

Sixth Standard Parallel N. through R 4 E.

Land rolling.
Soil stony; 3rd & 4th rate.
Timber, pine cedar and pinon
Land covered with heavy timber
or dense brush 80.00 chs.

S. 89° 53' E.

along S. bdy of sec 32

Ores rolling land through cedar
and pinon.

9.00 Enter scattering pine.

15.00 Leave timber, enter buck and
chico brush. bears N. & S.

23.70 Enter dense cedar and pinon.
bears N. and S.

Difference between measurement
of 40.00 chs. by two sets of chain men
is 4 links; position of middle point
By first set 39.98 chs.

Sixth Standard Parallel North through R. 1 E.

By second set 40.02 chs.,
mean of which is

40.00 Set a Malspais stone 18 x 12 x 6 ins
12 ins. in the ground for stand-
ard ¼ sec. cor. mkd SC ¼ on
N. face; from which
A pinon 6 ins in diam bears N23°E
73 lks dist; mkd SC ¼ S 32 B T
A pinon 14 ins in diam bears N32°30'W
178 lks dist; mkd SC ¼ S 32 B T
July 1, 1903: at this corner I set off
23°9'30" N on the decl arc and ob-
serve the sun on the meridian
at 12h 3m P. M. l. m. t. The result-
ing latitude is 35°28' N which
is the latitude nearby.
Difference between measurements
of 80.00 chs. by two sets of chain men
is 8 lks. position of middle point

Sixth Standard Parallel N through R. 4 E.

By first set 79.96

By second set 80.04 the mean of which is

80.00 Set a malapais stone 20 X 8 X 6 ins. 15 ins. in the ground for stand and cor. of secs 32 and 33 mkd SC on N. with 4 grooves on E and 2 grooves on W. faces; from which.

A pinon 6 ins. in diam bears N 39° E 61 lks dist mkd SC T25N R4E S33 B T

A pinon 6 ins in diam bears N 17° W 185 lks dist mkd SC T25N R4E S32 B T

Land, rolling.

Soil stony; 4th rate.

Timber, cedar and pinon

Land covered with timber or dense brush 80.00 chs.

Sixth Standard parallel N. through R. 4 E.

S 89° 53' E

along S. bdy sec 33

Over rolling land through cedar and pinon

25.00 Leave timber, enter buck and chico brush bears N & S.

Difference between measurement of 40.00 chs. by two sets of chainmen is 6 lks. position of middle point.

By first set 40.03 chs

By second set 39.97 chs. the mean of which is

40.00 Set a malapais stone 18 X 12 X 10 ins 12 ins. in the ground for stand and ¼ sec cor. mkd 33 C ¼ on N. face; raise a mound of stone 2 ft. base 1½ ft high N. of cor.

Pits impracticable.

Sixth Standard Parallel N through R. 4 E.

44.90 Road. bears N.W. and S.E.

70.00 Enter scattering cedar and pinon bears N. and S.

Difference between measurements of 80.00 chs. by two sets of chain men is 6 links. position of middle point.

By first set 80.03 chs.

By second set 79.97 chs. the mean of which is

80.00 Set a malapais stone 18 x 14 x 6 ins. 12 ins. in the ground for standard cor. of secs. 33 and 34 mkd SC on N & with 3 grooves on E and W. faces; raise a mound of stone 2 ft base 1½ ft high N. of cor. Pits impracticable. from which

A pinon 6 ins. in diam bears N. 24° W 160 lks dist.

Sixth Standard Parallel N through R 4 E

mkd. SC T 25 N R 4 E S 33 B T
No other tree available
Land. rolling
Soil. stony; 3rd & 4th rate.
Timber. pinon and cedar
Land covered with timber. buck and chico bush 80.00 chs.

July 1. 1903

✓ July 2 ~~1902~~ 1903 At 8 a.m. l.m.t
I set off 23°07' N on the decl arc
35°28' N on lat arc and determine
a true meridian with the solar
at the stand and corner of secs 33 and 34
Thence I run
S. 89°53' E.
along S. bdy of sec. 34
Over rolling land through scattering
cedar and pinon and dense chico and
buck brush. dec. gradually E. slope

16

Sixth Standard Parallel N. through R. 4 E.

19.00 Foot of 30 ft. descent. bears N and S

Difference between measurements of 40.00 chs. by two sets of chainmen is 2 links: position of middle point

By first set 39.99 chs.

By second set 40.01 chs the mean of which is

40.00 Set a malapais stone 18 x 12 x 8 ins 12 ins in the ground for standard ¼ sec. cor. mkd ¼ SC on N. face; raise a mound of stone 2 ft base 1½ ft high N. of cor. Pits impracticable

40.50 Drain, course N.W.

61.00 Enter pinon and cedar. bears N. and S.

Difference between measurements of 80.00 chs. by two sets of chainmen is 4 lks. position of middle point

By first set 79.98 chs.

By second set 80.02 chs the

Sixth Standard parallel N. through R 4 E.

mean of which is

80.00 Set a malapais stone 20 x 12 x 8 ins 15 ins. in the ground for stand and cor. of secs. 34 and 35 mkd S C on N. with 2 grooves on E. and 4 grooves on W. faces; from which A pinon 6 ins. in diam bears N 45° E 13 2 lks. dist. mkd S C T 25 N R 4 E S 35 B T A pinon 6 ins in diam bears N 39° 30' W 35 lks dist mkd S C T 25 N R 4 E S 34 B T

Land, rolling.

Soil, stony; 3rd and 4th. rate.

Timber, cedar and pinon

Land covered with timber or buck and chico brush 80.00 chs.

S 89° 53' E

along S. bdy of sec 35

Over rolling land through dense

Sixth Standard Parallel N through R 4

cedar and pinon. Ascend N.W. slope of hill.

7.80 Top of 75 ft ascent bears N and S des cend N.E. slope

19.20 Foot of 100 ft descent bears N.W. and S.E. dense growy timber ent. scattering pine and dense chico and buck brush

39.90 Road bears N & S.

Difference between measurements of 40.00 chs by two sets of chainmen is 6 links. position of middle point

By first set 40.03 chs

By second set 39.97 chs the mean of which is

40.00 Set a malapais stone 22 x 10 x 5 ins 17 ins in the ground for stand ard 1/4 sec. cor. mkd S C 1/4 on N. face, raise a mound of stone 2 ft base 1 1/2 ft high N. of cor. Pits impracticable

Sixth Standard Parallel N through R 4 E.

41.10 Drain course N.E.

Difference between measurements of 80.00 chs. by two sets of chainmen is 4 lks position of middle point

By first set 79.98 chs

By second set 80.02 chs. the mean of which is

80.00 Set a malapais stone 18 X 10 X 6 ins. 12 ins. in the ground for standard cor. of secs 35 and 36: mkd S C on N with 1 groove on E and 5 grooves on W. faces; raise a mound of stone 2 ft. base 1½ ft high N of cor. Pits impracticable. From which

A cedar 10 ins. in diam bears N 20° 30' W 248 lks dist. mkd S C T 25 N R 4 E S 35 B T

No other trees within limits

Land rolling and hilly

Soil. stony; 3rd and 4th rate.

Timber scattering cedar pinon and pine

Land covered with timber or dense chico and buck bunch 80.00 chs.

Sixth Standard parallel N through R 4 E

S. 89° 53' E

along S. bdy of sec. 36

Over rolling land thruout cedar and buck brush

23.00 Drain. course N.E.

Difference between measurements of 40.00 chs. by two sets of chainmen is 2 lks; position of middle ft.

By first set 39.99 chs.

By second set 40.01 chs. the mean of which is

40.00 Set a malapais stone 18 x 10 x 4 ins. 12 ins in the ground for standard ¼ sec. cor. mkd S C ¼ on N. face; dig pits 18 x 18 x 12 ins E. and W. of cor. 3 ft dist. and raise a mound of earth 3 ft base 2 ft high N. of cor.

July 2. 1902 ~~1902~~ at this cor. at 12h 3m 16s P.M. l mt. & set off 23° 1' 30" N on

No. 1238

Ex the Standard Parallel N through R 4 E.

the decl. are and observe the sun on the meridian. The resulting lat. is 35° 28' N. which is the proper latitude nearly.

6.60 The Closing corner of T 24 N. Rs 4 & 5 E.

81.37 The stand ard corner of T 24 N Rs 4 and 5 E. bears S. 4 lks. dist.

True Course last 15.37 chs. is S 89° 44' E.

Land. rolling.

Soil. stony; 3rd and 4th rate

Timber scattering cedar.

Land covered with timber or buck brush 81.37 chs.

July 2, 1903.

Marvin Candle

U.S. Deputy Surveyor.

General Description

The land over which this line passes, is for the most part rolling broken by a few low hills, and covered by cedar and pinon timber with a few small parks. There is an entire absence of water during the entire year except a very wet season during which time there are two tanks about the center of sec. 31, T.25N. R.4E. that are filled with water.

Marvin S. Candle

U.S. Deputy Surveyor.

LIST OF NAMES.

A list of the names of the individuals employed by Marion Gandle 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 the Sixth Standard Parallel North through range four East of the Gila and Salt River Base and Meridian, in the Territory of Arizona, showing the respective capacities in which they acted.

O E Brashears, Chainman.
R E Dyer, Chainman.
Herman Schulz, Chainman.
John Agnall, Chainman.
Arthur I Burns, Axman.
Milton Farnsworth, Axman.
Joseph H Demmes, Flagman.

24

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Marvin Gaudle United States Deputy Surveyor, in surveying all those parts or portions of the Sixth Standard Parallel North through range four East

of the Gila and Salt River Base and Meridian, in the Territory of Arizona, as 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 Arizona.

D. T. Brashears, Chainman.
R. E. Owen, Chainman.
Vermont Schultz, Chainman.
John Agnell, Chainman.
Arthur Ramsey, Axman.
Milton Farnsworth, Axman.
Joseph H. Reuces, Flagman.

Subscribed and sworn to before me this 2nd day of July, 1903.

[SEAL.]

Marvin Gaudle
U. S. Deputy Surveyor ~~Notary Public~~.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Maurice Gaudle, United States Deputy Surveyor, do solemnly swear that in pursuance of a contract received from Hugh N. Price, United States Surveyor-General for Arizona, bearing date of the 30th day of June, 1902, 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 Arizona, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the Sixth Standard Parallel North through range four East

of the Gila and Salt River Base and Meridian, in the Territory of Arizona, as 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 perpetu-

ated in strict accordance with the Manual of Surveying Instructions, the special instructions of the United States Surveyor-General for Arizona, and in the specific manner described in the field notes, and that the foregoing are the TRUE 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.

Marvin Gaudle

U. S. Deputy Surveyor.

Subscribed and sworn to before me this 21 st day of Sept, 1902.

C. M. Stinson

Clerk of the District Court

4890b150-8-02