

S. 23 & 24 Sec. 25 T. 22 N. R. 7 E.

T. 22 N. R. 7 E.

Subdivision

No. 424

BOOK 424

4-671

FIELD NOTES
GENERAL LAND OFFICE.

424

Contract # 98

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No. 424

Field Notes
of the Survey
of the
Line between Secs.
25 and 36
T. 22 N. R. 7 E.
of the
Gila and Salt River Base
and Meridian
in the
Territory of Arizona
as surveyed by
James A. Lamport
U. S. Deputy Surveyor
, under his
Contract No. 98
Dated June 30, 1902.

Survey commenced June 3, 1902.
Survey completed June 4, 1903.

INDEX.

T. 22 N.	
R. - 7 - E.	

25

9

36.

For preliminary path see
Retrace ment T. 227. R. 7. E.

Survey commenced June 3, 1903, and executed with a W. and L. E. Gurley Transit No. 15, with solar attachment. The horizontal limb is provided with two verniers placed opposite each other and reading to single minutes of arc which is the least count of latitude and declination arcs.

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 observations made during a.m. and p.m. hours, with a true meridian determined by observations on Polaris

I proceed as follows:

At the cor. of Secs. 25 and 26,
T. 22 N. R. 7 E. Lat. $35^{\circ}17'N$.

Long. $111^{\circ}34'W$. I set off

$22^{\circ}17'N$ on decl arc, and

$35^{\circ}17'N$ on lat. arc; and at

3 h. 40 m. p. m. l. m. t. deter-

mine with the solar a true
meridian, and mark a point

thereof on a stone firmly set
in the ground 5.00 Chs.

N. of corner. June 3.

June 4: At 2 h. 41 m. a. m.

by my watch, which is set

l. m. t., I observe Polaris at

Eastern elongation in accord-

ance with manual of Instruc-

tions and mark a point in

the line thus determined,

on a plug driven in the

ground 5 chs. n. of my
stations.

At 6 a.m. l.m.t. I lay off
the Azimuth of Polaris 1°
 $29'$ to the West and mark
the true meridian. This
determined by cutting a
small groove in the stone
set June 3, on which the
true meridian falls 0.25
ins. east of the mark deter-
mined by the solar.

At 7h. 5 m. a.m. l.m. t. I
set off $35^{\circ} 17' n.$ on the lat. arc,
and $22^{\circ} 21' n.$ on decl arc and
mark a point in the true
meridian determined by
the solar with a cross on
the stone already set 5.00
chs. n. of my stations.

This mark falls 0.8 ins. east of the true meridian established by Polaris observation.

The solar apparatus by a.m. and p.m. observations defines positions for true meridians respectively 16" east and 13" west of meridian established by Polaris observation. I therefore conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 7 h. 30 m. a.m. l.m.t. is $n. 14^{\circ} 34'$ W. The angle thus determined reduced by table p. 100 gives mean magnetic decl 14°

8

BOOK 424

Survey bet. Secs. 25 and

30' E.

36. T. 22 N. R. 7 E.

June 4, 1903, at 7h. 00 m.
a. m. l. m. t. I set off 35°
 $17' N.$ on the lat arc; $22^{\circ} 21' N.$
on the decl arc and de-
termine a true meridian
with the solar at old cor.
of secs. 25, 26, 35 and 36, now
applying to secs. 25 and 26,
which is a granite stone
 $15 \times 12 \times 10$ ins. in mound of
stone, properly marked,
from which a spruce 12 ins.
diam. bears n. $9^{\circ} E.$ 21 lks. dist.
marked T. 22 N. R. 7 E. S. 25, B. T.

A spruce 20 ins. diam.
bears n. $46^{\circ} W.$ 15 lks. dist. marked
T. 22 N. R. 7 E. S. 26, B. T.

The B. T.s referring to secs.
35 and 36 are described

Survey bet. secs. 25 and
 Chains by the Surveyor General,
 from which trees I have
 obliterated all marks in
 setting c. c. for secs. 35 and 36.
 Mean mag. decl. $14^{\circ} 30' E.$

Thence I run

East on a random line
 bet. secs. 25 and 36.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

72.00 Fall 25 s. of cor. to secs.
 25, 30, 31 and 36, previously
 set by me.

Thence I run

$S 89^{\circ} 48' W.$ on true line
 bet. secs. 25 and 36.

Ascend E. slope of Eldem
 Mountain, bears N. and S.
 through thick spruce and
 fine timber

31.50

Top 1000 ft. above cor.

36 T. 22 N. R. 7 E.

Chains bears n. and s.

Descend

32.00 Mark a granite stone
in place, 22 x 12 ins. 12 ins.
above ground, for $\frac{1}{4}$ sec.
cor. marked $\frac{1}{4}$ on n. face,
with a cross at exact
point; from which
a pine 20 ins. diam. bears
n. 51° E. 35 lks. dist marked,
 $\frac{1}{4}$ S. 25. B. T.

A pine 24 ins. diam. bears
n. 35° W. 63 lks. dist marked

$\frac{1}{4}$ S. 25. B. T.

46.50 Descent, steep, W. slope
of mountain bears n. and s.

72.00 The cor. of secs. 25 and 26
Land, mountainous;
Soil, stony, 4th rate
Timber, pine and spruce

mountainous land 72.00
chs.

June 4: At this cor. at
11 h. 58 m. local mean time,
I set off
22° 22' N. on decl arc, and
observe the sun on the meridian.
The resulting latitude is 35°
17' N.

General Description of Line

bet. Secs. 25 and 36, T. 22. N. R. 7 E.

This mile of line is very
rough, being all in the
Elden mountain; and it is
covered with heavy pine
and spruce timber, and
with an abundant growth
of bunch grass.

James A. Lamport,
U. S. DEPUTY SURVEYOR.

Final oath see Retracement
T. 22 N. R. 7 E. Book "K" No 1.

BOOK 424
14

A P P R O V A L .

Office of the

United States Surveyor-General,

Phoenix, Arizona.

2/26/04

Feb-26-1904

The foregoing field notes of the survey of *Tract subdivisions of T. 22 N. R. 2 E.*

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

Executed by *James A. Lampart*

United States Deputy Surveyor under his contract No. 98, dated *June 30* 1902,

having been critically examined, and the necessary corrections and explanations

made, the said field notes, and the surveys they describe, are hereby approved.

Frank D. Ingalls

U. S. Surveyor-General.