Book "G"

Jas. A. Lamport

NO-395

FIELD NOTES

GENERAL LAND OFFICE.

NO-395

Township 21 N., R. 7 E., G.&S.R.B.&M.

P. 1

BOOK 395

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Survey commenced May 16, 1903 and executed with a W & LE Gurley transit No. 15, with Solar attachment. The horizontal limb is provided with two opposite Verniers reading to single minutes of arc. The latitude and declination arcs, also, read to single minutes of arc.

I examine the adjustments of the instruments, correct the Collimation and level errors; then, to test the Solar apparatus by comparing its indications, resulting from Solar observations made during am and pm hours, with a true meridian determined by observations on Polaris, I proceed as follows:—

May 16: at the Cor of Secs 1, 2, 11, and 12 T 21 N R 7 E latitude 35° 15' N Longitude 111° 34' 12" W, at 5 pm I set off 35° 15' N on the Lat. arc; 19° 1' W on dec'l arc; determine with the Solar a True Meridian, and mark a point thereof on a stone firmly set in the ground 5.00 chs N. of Cor.

May 16 1903

May 17, 1903: At 3 h 46 m a.m. by my watch, which is set 1 mt. I observe Polaris at Western Elongation, in accordance with manual of instructions, And mark a point on

the line thus determined, on a plug driven in the ground, 5.00 chs N of my Station.

At 6h 20m Am Sun't I lay off the azimuth of Polaris 1° 29' to the East, and mark the true Meridian thus determined, by cutting a groove in the stone set May 16, on which the true Meridian falls on the mark determined by the Solar

At 7h 15m Am. I set off 35° 15' N. on the latitude arc, 19° 9' N. on decl arc; and mark a point in the true meridian determined by the Solar, by a notch on the Stone already set 5.00 chs N. of my station. This mark practically corresponds with the true meridian determined by the Polaris observation.

Since the solar apparatus by Am and Pm observations defines a true meridian corresponding to that determined by the Polaris, I therefore conclude that the adjustments of the transit are satisfactory.

The magnetic bearing of the true meridian at 7 Am is 14° 34' W.

The angle thus determined, reduced by the table, page 100, gives the Mean Mag. Decl 14° 30' E

Subdivision of T. 21 N. R 7 E

Chs. May 17" 1903.

At 7h a.m. L.M.T. I set
off ~~35°18'~~ 35°15' N on the lat arc.
19°09' N. on the decl. arc.
and determin-a true
Meridian with the solar
at the corner of secs. 1, 2
11 and 12, Tp 21 N R 7 E which is a
pine stake properly marked
and witnessed as described
by the Surveyor General
Mean Mag. Decl. 14°30' E.
Thence I run
N 0° 1' W. bet secs. 1 and 2
to a flag at the cor.
of secs. 1, 2, 35 + 36.
Over ascending ground
through heavy pine timber

16.75 wire fence bears N 10° E.
30.00 wash 20 lks. wide bears S 10° E.
36.00 Ascend steep west slope

Subdivision of T 21 N. R 7 E. Continued

Chs.	
	of Elden Mountain bears S. E. and N. W.
40. 00	The 1/4 sec. cor. falls on a granit bolder 2 x 2 ft. 1 foot above ground. I Cut a + on cross at exact cor point. Mark 1/4 on West face for 1/4 sec. cor. From which a pine 20 in 24 ins in dia bears N 39 E 60 lks dist marked 1/4 S 1 B. T. A Juniper 10 8 ins in dia bears S 22 W 55 lks dist marked 1/4 S. 2 B. T.
45. 00	Top of cliff ascend 500 ft above sec. cor bears S. E. & N W. slight Ascend

Subdivision

Chs.	
48.20	Bush 15 lks dia 20 ft deep bears S 10° W. Ascend steep
80.45	Intersect the corner of secs. 1, 2, 35 and 36. Twp. 21 & 22 N. R 7 E which is a granite stone in place. properly marked and witnessed. and previously set by me. Land Mountainous soil stony 4th rate Timber pine oak and cedar Mountainous land. 80.45 chs.

May 17th 1903.

James A Sanford
U.S. Deputy Surveyor.

BOOK 395

A P P R O V A L.

Office of the

United States Surveyor-General,

Phoenix, Arizona.

2/11/04

Feb 11-1904

The foregoing field notes of the survey of one mile subdivision of T. 2 N. R. 7 E.

of the Gila and Salt River Base and Meridian, in the Territory of Arizona. Executed by James A. Lampat 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 Ingalls

U. S. Surveyor-General.