

Retracement of the South Boundary of T. 37N., R. 33 E.

Chains.

At 7 a. m. l. m. t., I lay off the azimuth of Polaris, $1^{\circ} 32'$ to the east, and mark the meridian thus determined, by driving a tack in the peg set Nov. 15, on which the meridian falls .3 ins. W. of the point determined by the solar.

At $8^{\text{h}} 00^{\text{m}}$ a. m. l. m. t., I set off $41^{\circ} 1' N.$ on the lat. arc; $18^{\circ} 41\frac{1}{2}' S.$ on the decl. arc; and mark a point in the meridian determined with the solar, by a pencil mark on the peg already set 5 hrs. N. of my station; this point falls .1 in. W. of the point determined by the Polaris observation.

The solar apparatus, by p. m. and a. m. observations, defines positions for meridians, respectively about 16" east and 5" west of the meridian established by the Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian, at $8^{\text{h}} 10^{\text{m}}$ a. m., is $N. 18^{\circ} 30' W.$; the angle thus determined gives the mag. decl., $18^{\circ} 30' E.$

Nov. 16: At $3^{\text{h}} 00^{\text{m}}$ p. m., l. m. t., I set off $41^{\circ} 1^{\text{m}} N.$ on the lat. arc; $18^{\circ} 48' S.$ on the decl. arc; and determine a meridian with the solar at the cor. of Ts. 36 and 37N., Rs. 32 and 33 E., as described in Book BB.

Thence I run

East on a retracement, along the S. bdy. of T. 37N., R. 33E., bet. sees. 6 and 31.

38.91 After diligent search, I fail to find any evidence of old $\frac{1}{4}$ sec. cor.

78.91 After diligent search, I fail to find any evidence of old cor. of sees. 5, 6, 31 and 32.

Nov. 16, 1912.

T 36 W R 32 E