Surveys and re-surveys in T 18 N., R 29 E.

Chains

June 15, 1912.

At 8 a.m., l. m. t., I lay off the azimuth of Polaris 1° 31' to the left, and mark the meridian thus determined, by cutting a small groove in the stone set June 14, on which the meridian falls 0.4 ins. east of the mark determined by the solar.

At 8 h. 6 m., a.m., l. m. t., I set off 39° 22' on the lat. arc. 23° 20' N. on the decl. arc.; and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station; this mark falls 0.3 ins. east of the meridian established by the Polaris observation.

The solar apparatus, by p. m. and a. m. observations, defines positions for meridians, respectively about 0' 21" west and 0' 16" east 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 h. 30 m., a. m., is N 17° 50' W; the angle thus determined gives the mag. decl. 17° 50' E.

The cor. of Tps. 17 and 18 N. Rs. 29 and 30 E. was a pine post, 2½ ins. sq. by 1 ft. above ground, firmly set in the ground but with no accessories, marked with 6 grooves on each of the N., S., E. and W. faces.

I destroy all traces of this corner and reestablish it at the same point as follows:

Set an iron post 3 ft. long, 3 ins. diam. 24 ins. in the ground, with brass cap mk'd.