

Test of Instrument.

As all of the solar observations during the usual hours of solar work come within 1' 30" of the true meridian, I conclude that the adjustments of the instrument are satisfactory.

Frequent tests of the solar apparatus were made throughout the survey of the township by direct solar observations on line, and by frequent tests on the Polaris meridian at camp.

Measurements on the surveys in this township were made with a Lallie 5.00 ch. steel tape which was compared with a standard 1.00 ch. tape.

Slope angles were determined by the use of clinometers, the adjustments of which were made by comparing their readings with those of the transit.

 Retracement of the W. Bdy. of T. 46 N., R. 35 E.

CHAINS

From the Std. cor. of T. 46 N., Rs. 34 and 35 E., which is a volcanic stone, 24 x 24 x 7 ins., marked 6 notches on the N., E. and W. faces, firmly set in a mound of stone, 6 ft. base, 4 ft. high,

North, on retracement, bet. secs. 31 and 36.

40.28 Fall 14 lks. W. of the $\frac{1}{4}$ sec. cor. which is a volcanic stone, 20 x 15 x 6 ins., marked $\frac{1}{4}$ on N. face, set in a mound of stone.

The course of this $\frac{1}{2}$ mile is N. $0^{\circ} 12'$ E. and the dist. is 40.28 chs.

80.36 Fall 29 lks. W. of the cor. of secs. 25, 30, 31 and 36 which is a volcanic stone, 22 x 18 x 8 ins., marked 1 groove on S. face and 5 grooves on N. face, set in a mound of stone.

The course of the N. $\frac{1}{2}$ mile is N. $0^{\circ} 13'$ E. and the dist. is 40.08 chs.

From the cor. of secs. 25, 30, 31 and 36,

North, on retracement, bet. secs. 25 and 30.