

## Test of Instrument

Mean observed altitude =  $73^{\circ}04'$

Reduced Latitude =  $39^{\circ}50' 09''$  N. ✓

Mean watch time of obsn = 11h 58m 22.5s

Watch slow of l.m.t. = 0m 29.3s ✓

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.

Measurements on the survey of this township were made with a Lallie 5.00 ch. steel tape which was frequently compared with a U.S. standard 1.00 ch. steel tape.

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

Throughout the survey of this township the adjustments of the transit were frequently examined and the solar apparatus tested at least once a week by comparing the results of a.m. and p.m. observations with the true meridian.

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Retracement of the East Boundary T. 23 N., R. 64 E.

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I commence at the cor. of Tps. 22 and 23 N., Rs. 64 and 65 E., which I find to be a cedar stake 2x2 ins., 2 ft. above ground, firmly set in a mound of stone, mkd. and witnessed as described by the surveyor general. Thence North on retracement along E. bdy. sec. 36.

40.00 After diligent search failed to find any trace of the  $\frac{1}{4}$  sec. cor. set temp. point.

80.00 All indications of the old cor. have disappeared. Set temp. point.

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From the temp. point for cor. of secs. 25 and 36, on E. bdy. T. 23 N., R. 64 E.

North on retracement along E. bdy. sec. 25.

40.00 After diligent search failed to find any trace of the  $\frac{1}{4}$  sec. cor. Set temp. point.