

## TEST OF INSTRUMENTS T. 18 N., R. 49 E.

Test of transit No. 8539:

July 27, 1921; At my same station, at 9h 00m a.m., app.t.,

I set off  $39^{\circ} 28'$  on the lat. arc, and  $19^{\circ} 15'$  N. on the decl arc, the line defined by the solar coinciding with the true mer.

At 3h 00m p.m., app.t., I set off  $39^{\circ} 28'$  on the lat. arc, and  $19^{\circ} 12'$  N. on the decl arc, the line defined by the solar coinciding with the true mer.

Tests at all hours suitable for solar observations give results which agree with the true mer., I therefore conclude that the adjustments of the instruments are satisfactory.

The instruments are tested at frequent intervals on true meridians and are personally kept in adjustment throughout the progress of the work.

Measurements are made with 8 ch. Lallie Steel Tapes, tested by comparison with a Lufkin Standard Steel Tape.

Measurements are reduced to true horizontal distances by the use of clinometers.

Retracements of the North and West boundaries of this township, indicate substantial agreement in alignment and distances with the original surveys, therefore, topography for said boundaries is omitted from these notes.

RETRACEMENT OF E. BOUNDARY OF T. 18 N., R. 49E.

I begin at the cor. of Tps. 17 and 18 N., Rs. 49 and 50 E., which is a limestone  $20 \times 14 \times 12$  ins., firmly set in a mound of stone, marked and witnessed as described by the Surveyor General

Thence

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

39.44 Fall 12 lks. E. of the  $\frac{1}{4}$  sec. cor., hereinafter described.

From  $\frac{1}{4}$  sec. cor. continue

North

79.23 Fall 5 lks. E. of the cor. of secs. 25, 30, 31 and 36,