

TEST OF INSTRUMENTS T. 8 N., R. 30 E.

CHAINS

At 3h 00m p.m., app. t., I set off $38^{\circ}31'$ on the lat. arc, and $22^{\circ}44'$ 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 surveys.

Measurements are made with 5 ch. Lallie tapes, tested by comparison with a Lufkin Standard steel tape. Measurements are reduced to true horizontal distances by the use of clinometers.

Latitude and longitude for the above station was computed from fractional T. 9 N., R. 29 E., surveyed by me under Group No. 65.

RETRACEMENT OF SUBDIVISIONS OF T. 8 N., R. 30 E.

I begin at the cor. of secs. 25, 30, 31 and 36, T. 8 N., Rs. 29 and 30 E., hereinafter described.

Thence

East on retracement line bet. secs. 30 and 31

39.28 Record course and dist., find no trace of $\frac{1}{4}$ sec. cor.

Continue on same line with continuous measurement.

71.14 Fall 8.90 chs. S. of the cor. of secs. 29, 30, 31 and 32, hereinafter described.

The bearing of this mile is therefore $N.82^{\circ}52'$ E., and the dist. 71.69 chs.

From the cor. of secs. 29, 30, 31 and 32

East on retracement line bet. secs. 29 and 32

40.42 Fall 4 lks. S. of $\frac{1}{4}$ sec. cor., hereinafter described.

The bearing of this $\frac{1}{2}$ mile is therefore $N.89^{\circ}57'$ E., and the dist. 40.42 chs.

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