

## RETRACEMENT OF THE BOUNDARIES OF SECTION 1, T. 31 N., R. 33 E.

## TESTS OF INSTRUMENT.

At 3h 20m p.m., app. t., with the lat. arc unchanged, I set off  $19^{\circ} 06.5'S.$ , on the decl. arc; and determine a meridian with the solar which I find falls within  $1'$  of the true meridian.

As all the 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.

All measurements are made with a Lallie 5-chain steel tape, compared with a Lufkin standard steel tape and found correct. The measurements are made on the slope, the vertical angle determined, and the slope measurements properly reduced to the true horizontal distances.

## Retracement of the boundaries of Sec. 1.

From the closing cor. of secs. 1 and 2, which is a quartzite stone,  $18 \times 10 \times 4$  ins., in a mound of stone, mkd. 5 notches on W. edge, 1 notch on E. edge, and "CC" on S. face.

South, on random line, bet. secs. 1 and 2.

40.07 Fall 199 lks. E. of the point for the  $\frac{1}{2}$  sec. cor. of secs. 1 and 2, hereinafter described.

The course of this half mile is  $S. 2^{\circ} 51' W.$ , and the length is 40.12 chs.

From the point for the  $\frac{1}{2}$  sec. cor. of secs. 1 and 2, South, on random line,

39.62 Fall 70 lks. E. of the cor. of secs. 1, 2, 11 and 12, hereinafter described.

The course of this half mile is  $S. 1^{\circ} 00' W.$ , and the length is 39.62 chs.

From the cor. of secs. 1, 2, 11 and 12,

East, on random line, bet. secs. 1 and 12,

40.00 No trace of  $\frac{1}{2}$  sec. cor.

78.46 Fall 168 lks. N. of the cor. of secs. 1, 6, 7, and 12,