

TEST OF INSTRUMENT  
T25N R54E

mine a meridian with the solar which I find agrees with the true meridian.

At app. noon, with the lat. arc unchanged, I observe the sun on the meridian; the resulting reading of the decl. arc is  $23^{\circ}12'S.$ , which agrees with the computed declination of the sun.

At 3h 30m p.m., l.m.t., with the lat. arc unchanged, I set off  $23^{\circ}10'S.$  on the decl. arc; and determine a meridian with the solar which I find falls 1' to the left of the true meridian.

The instrument was approved for use on this survey by the Assistant Supervisor of Surveys for District No. 6, conditionally upon satisfactory field test, in assignment instructions dated October 29, 1921.

MEASUREMENTS.

All measurements are made with a Lallie steel ribbon tape, 5 chains in length, compared with a Lufkin standard steel tape 1 chain in length and found correct. The measurements are made on the slope, the vertical angle determined by use of K. & E. clinometers, and the slope measurements properly reduced to the true horizontal distances.

DEPENDENT AND INDEPENDENT

RESURVEY AND RETRACEMENT OF A PORTION OF THE FIFTH STD.

PAR. N. thru Rs. 53, 54, 55 and 56 E.

Chains	From the old Standard corner of secs. 33 and 34, T. 26 N., R. 53 E., which is a juniper stake, 2 ft. long, 3 ins. square, distinctly mkd. as described by the surveyor general and firmly set in a mound of earth, East, on retracement line, searching for old standard corners at 40 chain intervals,
200.00	Set temp. Std. $\frac{1}{4}$ sec. cor. of sec. 36,
240.00	Set temp. Std. corner of T. 26 N., Rs. 53 and 54 E.
479.37	Fall 80 lks. S. of the old Standard corner of secs. 33 and 34, T. 26 N., R. 54 E., which is a juniper stake,