

Chains

servation May 9, 1924, recorded in book for T. 22 N., R. 20 E.

At 9h 0m a.m. app. t., I set off $39^{\circ} 49'$ N., on the lat. arc; $23^{\circ} 27'$ N., on the decl. arc; and determine a meridian with the solar which I find to agree 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 $23^{\circ} 26.9'$ N., which agrees with the computed declination of the sun.

At 3h 0m p.m. app. t., with the lat. arc unchanged, I set off $23^{\circ} 26.6'$ N., on the decl. arc; and determine a meridian with the solar which I find to agree with the true meridian.

As all of 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.

Measurements are made with a 5.00 chs. Lallie steel tape, tested by comparison with a Lufkin Standard steel tape.

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

Survey of Mammouth Lode.

Beginning at the discovery monument which is a juniper post, 4 ft. long, 4 ins. sq., loosely set in ground and in a mound of stone, with discovery notice attached. I mark the true point by driving a hub in center of mound along side of post. and by a nail in said hub.

Thence

S. $8^{\circ} 06' 40''$ W., along lode line.

Over rolling mountainous land, through dense timber and undergrowth. Desc. 12 ft. to

0.75 Hillside drain course E.