

County Surveyor's Record, Douglas County, Oregon

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Township 27 South, Range 7 West.

CHAINS

At 8h. 0m a.m. app. t., I set off $43^{\circ}09'N.$ on the lat. arc; $16^{\circ}52\frac{1}{2}'N.$ on the decl. arc; and determine a meridian with the solar, which agrees with the true meridian. I set off $16^{\circ}55'N.$ on the decl. arc of the solar compass and at apparent noon, observe the sun on the meridian; the resulting latitude is $43^{\circ}09'N.$

With the lat. arc of the transit unchanged, I observe the sun on the meridian at apparent noon; the resulting reading of the declination arc is $16^{\circ}55'N.$, which agrees with the computed declination.

As all the solar observations made with both instruments during the usual hours of solar work define positions for the meridian within $1'30''$ of the true meridian, I conclude that the adjustments of the instruments are satisfactory.

All measurements are made with a Lallie 2-chain steel tape, compared with a Lufkin standard steel tape and found correct; measurements are made on the slope, vertical angles determined with a clinometer and all slope measurements reduced to true horizontal distances.

Retracement S. Bdy. T. 27 S., R. 7 W.
(Hathorn Survey)

I commence at the standard cor. of T. 28 S., R. 7 W., established by Hathorn; thence East along the S. bdy. of sec. 31.

5.83 Offset North 8.78 chs. (Hathorn tie) and search for standard cor. of T. 28 S., R. 7 and 8 W., established by Ford. Set Temp. cor., true Cor. point, as finally determined, is 4 lks. E. and 1 lk S.

32.80 The $\frac{1}{4}$ sec. cor. of sec. 31, established by Hathorn, bears South, 10 lks. dist.

40.29 The cor. established by Hathorn as standard $\frac{1}{4}$ sec. cor. of sec. 6, bears South, 10 lks. dist.

Note: No tie is given by Hathorn to Ford's $\frac{1}{4}$ sec. cor. on N. bdy. sec/ 6.