

Homestead Entry Survey No. 141
 Metes and Bounds Survey of Ben Williams, Homestead Entry
 Umpqua National Forest, Oregon

CHAINS

Ben Williams, applicant for listing, Application No. 2, dated January 29, 1907.

Special Instructions dated April 27, 1914, for H. E. S. No. 141.

Claim situated in unsurveyed secs. 26, 35 and 36, T. 29 S., R. 2 W., W. M., Oregon.

Authority contained in the Acts of June 11, 1906 and March 4, 1913.

Survey commenced June 29, 1914, and executed with a W. & L. E. Gurley light mountain solar transit No. 12985, the horizontal limb having two opposite double verniers reading to single minutes of arc, which is also the least count of the lat. and decl. arcs.

The instrument was approved by the Assistant Supervisor of Surveys for Washington and Oregon on May 25, 1914, at Portland, Oregon.

All measurements, unless otherwise specified, are made with a $\frac{1}{2}$ -inch steel tape two chs. in length, compared with a Chesterman standard steel tape. Clinometers are used to determine slope angles, and measurements are reduced to true horizontal distances.

I examine the adjustments of the transit and correct all errors; then, to test the solar apparatus by comparing the results of obsns. on the sun made during a.m. and p.m. hours with a mer. established by obsn. on Pol. at eastern elong., I proceed as follows:

June 28, 1914, at a point 5.00 chs. SE. of claimant's house, at 4:30 p.m., l.m.t., in lat. $42^{\circ}59'$ N., long. $122^{\circ}55'$ W., I set off $23^{\circ}19'$ N., on the decl. arc, $42^{\circ}59'$ N. on the lat. arc, and determine a mer. with the solar, and mark the mer. thus determined by a tack in a wooden stake, driven in the ground, 7.00 chs. N. of my station, preparatory to observing Pol. at eastern elong., the following night.

June 29, 1914, at same station, at 1^h07^m a.m., l.m.t., I observe Pol. at eastern elong., and mark the point in the line thus determined by a tack driven in a wooden stake, driven in the ground 7.00 chs. N. of my station.

June 29, 1914, at same station, at 7^h15^m a.m., l.m.t., I lay off the azimuth of Pol. $1^{\circ}35'$ to the West. This mer. coincides with the solar mer.

June 29, 1914, at same station, at 7^h30^m a.m., l.m.t., I set off $23^{\circ}17'$ N. on the decl. arc, $42^{\circ}59'$ N. on the lat. arc, and determine a mer. with the solar. This mer. coincides with the Pol. and solar mer. heretofore mentioned. I therefore conclude that my instrument is in perfect adjustment.

H. E. S. No. 141.

TRACT A

June 29, 1914:

Beginning at Cor. No. 1, identical with Cor. H/1 of listing survey No. 6-490, a fir tree, 30 ins. diam., mkd. and witnessed as described by the listing surveyor,

I blaze and scribe the tree 1 H E S 141 on NW. face for cor.; from which

A fir, 16 ins. diam., bears S. $55^{\circ}30'$ W., 11 lks. dist.,

A fir, 12 ins. diam., bears N. $8^{\circ}10'$ W., 39 lks. dist., both trees blazed and scribed 1 H E S 141 BT.