

# County Surveyor's Record, Douglas County, Oregon

Homestead Entry Survey No. 140  
 Metes and Bounds Survey of John B. Rondeau, Homestead Entry  
 Umpqua National Forest, Oregon

CHAINS

Survey commenced June 13, 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  $\frac{1}{4}$ -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 solar mer. established by obsn. on the sun, about 6.00 chs. SW. of Cor. No. 1 of H.E.S. No. 140 and a mer. established by obsn. on Pol. at eastern elong., at Hutchinson Ranger Station, about two and a half miles in a SE. direction from this claim, I proceed as follows:

June 12, 1914, at a point 2.00 chs. SE. of the house at Hutchinson Ranger Station at 4 p.m., l.m.t., in lat.  $42^{\circ}58'$  N., long.  $122^{\circ}52'$  W., I set off  $23^{\circ}10'$  N. on the decl. arc,  $42^{\circ}58'$  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 5 chs. N. of my station, preparatory to observing Pol. at eastern elong. the following night.

June 13, 1914, at same station, at 2<sup>h</sup>09<sup>m</sup> a.m., l.m.t., I obs. Pol. at eastern elong., and mark a point in the line thus determined by a tack driven in a wooden peg set in the ground, 5 chs. N. of my station.

June 13, 1914, at same station, at 6<sup>h</sup>45<sup>m</sup> 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 13, 1914, at same station, at 7<sup>h</sup>0<sup>m</sup> a.m., l.m.t., I set off  $23^{\circ}13'$  N. on the decl. arc,  $42^{\circ}58'$  N. on the lat. arc, and determine a mer. with the solar. This mer. coincides with the Pol. and solar mer. heretofore described. I therefore conclude that my instrument is in perfect adjustment.

June 13, 1914, at a point 6.00 chs. SW. of Cor. No. 1, H. E. S. No. 140, at 8<sup>h</sup>30<sup>m</sup> a.m., l.m.t., I set off  $23^{\circ}13'$  N. on the decl. arc,  $43^{\circ}00'$  N. on the lat. arc, and determine a mer. with the solar, and mark the mer. thus determined by a flag, firmly set in the ground about 7 chs. N. of my station.

H. E. S. No. 140.

June 13, 1914.

Beginning at Cor. No. 1, identical with Cor. H/1 of listing survey, a post, mkd. and witnessed as described by Asher Ireland, Assistant Forest Ranger, in place of which I set an igneous stone, 24 x 16 x 6 ins., 14 ins. in the ground for Cor. No. 1, mkd. 1 H E S 140 on NW. face, with a cross (X) on top; from which

A fir, 18 ins. diam., bears S.  $30^{\circ}00'$  E., 47 lks. dist.,

A fir, 10 ins. diam., bears N.  $49^{\circ}25'$  W., 45 lks. dist.,  
 both trees blazed and scribed 1 H E S 140 BT.

The  $\frac{1}{4}$  cor. of sec. 30, T. 29 S., R. 1 W., and sec. 25, T. 29 S., R. 2 W., a stone mkd. and witnessed as described by the surveyor general, bears S.  $89^{\circ}12'$  E., 19.46 chs. dist.

The mag. bearing of the true mer. at 9 a.m., l.m.t. is  $21^{\circ}40'$  W.;