

COUNTY SURVEYOR'S RECORD, DOUGLAS COUNTY, OREGON

BEHREND & CO. PORTLAND, ORE. 87345

<p>Survey No. Made on Aug 20-23 1923</p> <p>In Town. 23 3 Range 9 West Sec. 19</p> <p>Made for Richard H Petersen</p> <p>Purpose of To determine boundary of 1235 Description J.W.Cole C.S. Kenneth Petersen -- hain Bill Judy -- axe August Schmidt --axe</p>	<p>Survey No. Made on</p> <p>In Town. Range Sec.</p> <p>Made for</p> <p>Purpose of</p>
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FN. 11 C.S. 1/18 & C.S. 40/99

I began at the $\frac{1}{4}$ corner on the North boundary of Sec 19 where I found an 18 inch fir tree dead, standing marked for the corner from which the Original Bearing trees checked for distance and direction, both alive and standing bearing scribe marks, I set an iron bar $\frac{1}{2}$ "x2"x30" to perpetuate the corner Thence I ran South $0^{\circ}12'$ E by Solar Observations as follows Time 2:15 PM Aug 21, 1923 Turn $51^{\circ}38'$ right to sun from line running South Measured altitude $48^{\circ}07'$

Dec Greenwich Noon Aug 21	12°22'46"	
Correction for 10.5 hours	- 8'40"	

Dec of Sun at time of observation	112°14'	
Latitude	43°33'	
Altitude	48°07'	
Cos Sun's bearing Eq. Sin Dec		

Cos Alt x Cos Lat. - Tan Alt x Tan Lat.		
Tan 43°33' :: .9506	Cos 43°33' :: .7248	Sin 12°14' :: .2114
Tan 48°07' :: 1.1152	Cos 48°07' :: .6676	
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1.0601		.4839
.2114		
1.0601 - .4839		
		.5765
		.6252

A check observation gave the bearing of line $30^{\circ}14'$ E and I assumed a mean of $30^{\circ}12'$ E to be nearer correct.

$30^{\circ}12'$ E 990.0 ft Thence $N89^{\circ}48'$ E 264.0 ft to the North West corner of Richard Petersens land where I set an iron rod 1"x30" Thence $30^{\circ}12'$ E 1650 ft to the South West corner of Richard Petersen's land and set a Cedar stake 3"x3" x30" also a $1\frac{1}{2}$ inch square bar 24" inches in the ground. I then returned to the North West corner of Petersens land and ran $N89^{\circ}48'$ E 1050 ft and set a stake for the North East corner Thence South $0^{\circ}12'$ E 1650 ft to the South West corner and set a cedar stake for the corner 3"x3"x30.