



# Woodward Forestry <sup>LLC</sup>

**Chris Woodward**

PO Box 1407

Silverton Or, 97381

503-539-6656 cell

[chris@chriswoodward.org](mailto:chris@chriswoodward.org)

[woodwardforestry.com](http://woodwardforestry.com)



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Property: T15S R11W Section 03  
Tax lot: 900

Approximately 197.9 Acres  
Lincoln county, Oregon

Re: Helms Creek - Timber evaluation

### *Property Description*

The property is located approximately 7 miles Southeast of the town of Yachats Or. From Yachats travel East on Yachats River road for 8.5 miles. Then turn South onto Keller creek rd. In 0.4 miles, stay to the right and the road becomes NF5590. Continue for approximately 2.4 miles, then turn North onto an unnamed forest road. Continue for 1.3 miles and at that point you enter the Southern property line.

The property is a total of approximately 197.9 acres and consists of one tax lot. The property consists entirely of commercial timberland that is well stocked with young timber and a plantation. The majority of the timber onsite was established after the previous timber harvests. The planting and site preparation was very successful and has generated very productive stands of timber that are growing well.

An all season rocked road provides good access to the property and is connected to a paved forest road.

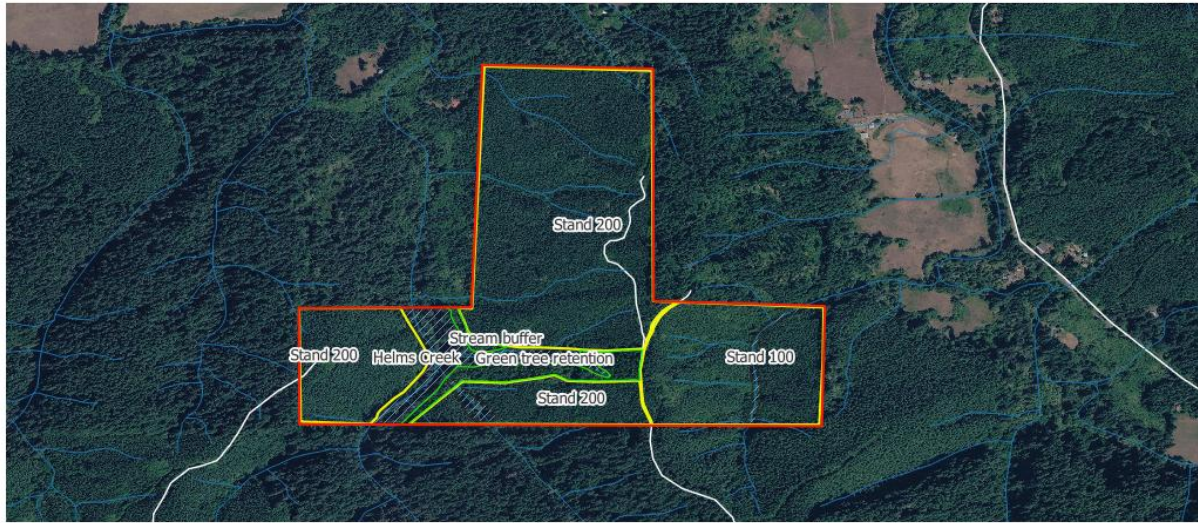
Multiple seasonal and perennial streams that are classified as either small or medium in size are present within the boundaries of the property. The majority of the streams are classified as non-fish while some are expected to be fish bearing. The available data from Oregon Dept. of Forestry was not conclusive.



The topography is fairly gentle for being on the coast range and when compared to adjacent timberland. Timber harvest operations would include both ground based and cable operations. Nearly all of the timber is Douglas-fir with a smaller component of Red Alder, Western hemlock and Spruce.

A portion of the timber types on the property include stream buffers and mature timber in a Green tree retention are from previous harvest activities.

The adjacent ownerships consist predominately of commercial timberland, federal forestland, private non-industrial timberland and some large acreage homesite.

## Helms Creek



-  Property
-  Stand
-  Green tree retention
-  Stream buffer
-  Roads
-  Streams

The purpose of this report is to provide an assessment of the plantations that are present on the property and have been managed to become commercially available timber in the future. Additional purposes include evaluating the condition of the timber component, roads and property lines.

### Property lines

The property lines were initially derived by county tax lot GPS shapefiles. A portion of these lines were identified in the field by survey markers. The remaining portions of the property lines were identified by distinct timber type changes.



**Boundary marker located on East property line**

### Cruise

Stand 100 was cruised with variable radius plots being installed which is an industry standard for timber volume measurements. An average of one plot per acre was installed with a minimum of a 1:1 ratio of count to measure plots.

The measure plots collected the following measurements: Species, diameter, taper, height to merchantable top and log lengths. Log lengths included a sort and grade code that was used to identify the destination mill for each piece and the grade was consistent with the Columbia river bureau grades. Any defect identified was recorded by log segment.

The remaining plots were count plots that tallied the number of trees on the plot by species.

No additional hidden defect was applied.

The boundaries of each timber type were measured in the field with a resource grade GPS.

All of the data compiling was done in the cruise software “SuperAce” which is an industry standard for timber cruising and generating reports.

The cruise data was used to quantify the stocking levels and growth rates.

### Streams

Multiple streams exist within the property. Helms creek is located on the Western portion of the property and is a medium sized perennial stream that is expected to be fish bearing. Previous timber harvest activities left a buffer of non-harvested timber adjacent to this stream that is greater than the requirements identified in the Oregon Forest Practices act. Several small streams flow into Helms creek that are expected to be perennial and classified as non-fish. One of these small streams had a harvest buffer applied, while the remaining streams had no harvest buffers. An unnamed small perennial stream is located on the Eastern portion of the property, and the fish-bearing status is unknown. Multiple small perennial non-fish bearing streams flow into the

primary perennial stream. These tributaries are expected to not require a harvest buffer for future timber harvests.

Helms creek is anticipated to require a harvest buffer during future timber harvest while the remaining streams are expected to require no regulatory stream protection that will impact any of the timber harvest opportunities or related costs.

#### Green tree retention area

A green tree retention area is present adjacent to Helms creek and its primary tributary stream buffers. This retention area was left un-harvested when stand 200 was last harvested. It is anticipated that this area was left not harvested for multiple reasons. The Oregon Forest Practices act (OFPA) limits a clear-cut area to 120 contiguous acres on a single property and also requires 2 leave trees per harvested acre to be left. The green tree retention area satisfies both of these requirements by limiting the harvest acres to 120 and maintaining the required leave trees on the landscape. The OFPA allow the portion of the retention area that is above and beyond the leave tree requirements to be harvested once the adjacent timber harvest has been successfully replanted and considered “free to grow”. The required leave trees can be harvested once the adjacent timber harvested area has reached a size with an average of 11” DBH. Stand 200 is well on its way to reaching this requirement.

## Stand Descriptions

### Stand 100

This stand is approximately 37 gross acres and is composed predominantly of Douglas-fir, with scattered Red Alder occurring primarily adjacent to the stream channels. The timber is well stocked, healthy, and exhibiting strong growth characteristics. A small perennial stream flows from south to north through the stand and is anticipated to be classified as fish-bearing. Several tributary channels enter the mainstream and are expected to be seasonal, non-fish-bearing streams based on observed flow volumes and channel gradients during field inspection. Property boundaries are generally identifiable in the field by distinct changes in timber type and stand composition. Portions of the eastern property boundary are further defined by existing survey monuments. Topography on the east side of the perennial stream is relatively gentle and provides favorable operating conditions.



**Example of growth of Stand 100**



**Timber type of Stand 100**

## Stand 200

This stand is approximately 21 years of age and consists primarily of Douglas-fir with a minor component of Western Hemlock and Spruce. The plantation is growing vigorously and is developing into a highly productive timber stand. Stocking throughout the stand is dense and consistent, indicating successful establishment and early stand management. Topography within the stand ranges from gentle to moderate slopes. Helms Creek, a medium-sized stream flowing from south to north, traverses the stand and is expected to be classified as fish-bearing. Multiple tributary streams drain into Helms Creek and range from perennial to seasonal in nature. Exterior stand boundaries coincide with the property boundaries and are generally identifiable in the field by distinct changes in timber type. Interior stand boundaries are primarily defined by stream buffer areas and designated green tree retention areas.



**Example of stand 200**