

# Pre-Operations Report

**Operation Name: South Ginger**  
**County: Tillamook**  
**Management Basin: Nestucca**

**Table 1. Operation Areas, Types and Acres**

Area	Type of Operation	Gross Acres	Net Acres <sup>1</sup>
1	Partial Cut - Moderate	155	122
Total		155	122

*1. The net acres are based on orthophotos and GIS and exclude roads, stream buffers, reserve area and non-required thinning areas.*

## **I. PHYSICAL DESCRIPTION OF OPERATION AREA:**

Slopes have primarily a southern and eastern aspect and range from 10% to 60%. Elevations range from 1640 to 2080 feet. The major soil type is Jewell.

The sale is located on gentle to moderate slopes of a tributary to the Nestucca River south of Ginger Creek. There are only two bands of steep and very steep side-slopes near the lower boundary (east). The sale is underlain by a mix of sedimentary and igneous origin rocks of the sedimentary rocks of the Yamhill Formation and the Sandstone of Trask River Formation (informal) are cut by two northeast trending bands of igneous intrusive diabase rock. Refer to the Overview of Harvest Operations in the Summary document for information.

## **II. CURRENT STAND CONDITION:**

**Table 2. Stand Inventory Information<sup>4</sup>**

Area	Prescription	Stand ID <sup>1</sup>	Species	Age	DBH	BA	TPA	SDI	Net Acres <sup>2</sup>
1	PC	220	DF, RA	45	12.7	196	228	56	122
		Target <sup>3</sup>	DF, RA	45	15	104	85	27	122

*1. The source of stand inventory information is from SLI.*

*2. The net acres are based on orthophotos and GIS and exclude roads, and stream buffers, and non-required thinning areas.*

*3. The Target identifies expected stand characteristics (DBH, BA, TPA and SDI) after harvesting has been completed.*

*4. These numbers are based on plot data taken to this point and final numbers may differ significantly. The directive for minor and major modifications will be followed for further review.*

The sale area was logged in the late 1950's. The northeastern portion of the sale was seeded with Douglas-fir in the early 1960's and the remaining portion was

planted with Douglas-fir in the late 1960's. The northern portion of the sale was pre-commercially thinned.

Stand Level Inventory information is not currently available for this area. The stands in the sale area are classified as 100% Understory (UDS) according to the district stand summary information (1999). See Table 2 for specific stand data.

Area 1 is a Douglas-fir plantation that has alder dominated draws and small pockets of alder (less than 1 acre) scattered throughout. The understory is comprised mainly of patchy salmonberry. It varies in density in relation to the crown closure of the stand. The Douglas-fir shows symptoms of Swiss needle cast but due to the pre-commercial thin these trees have good live crown ratios and are still growing. The Douglas-fir is becoming overstocked resulting in the loss of live crown ratios and slowed diameter growth. The alder components of these stands were aerially sprayed in the 1970's to release the planted conifer resulting in alder trees with short boles and many tops.

There are some large snags in various states of decay and/or some hard snags created from animal damage. Down wood consists of scattered large old logs (36"+) in Class 3 and 4 stages of decay and some windthrow in decay classes 1 and 2 and slash from PCT activity.

### III. DESIRED STAND CONDITION and VISION:

**Table 3. Stand Structure Information**

Area	Stand ID	Current	Post Harvest <sup>1</sup>	Desired Future	Net Acres
1	220	UDS	UDS	OFS	122

*1. The stand is expected to develop into this condition in the five to ten years after this operation is completed except in REG stands which occur after harvest.*

See Section IV: Proposed Management Prescription for more information on Green Tree, Down Wood, and Snag Strategies during operation. Also refer to Landscape Design in the Summary document for more information on strategies to move the district toward Desired Future Condition (DFC) goals.

Area 1: The DFC for this stand is Older Forest Structure (OFS). The vision for this stand is to have a mixed species stand, including Douglas-fir, western hemlock, and hardwoods. The stand after harvesting will be a Douglas-fir stand that averages approximately 85 trees per acre and be about 15 inches in DBH. Another entry is expected in about 10-15 years. At this time a prescription will be developed to stimulate understory growth. Other conifer species may need to be introduced into the stand at this time in order to increase species diversity.

#### **IV. PROPOSED MANAGEMENT PRESCRIPTION and VISION:**

The prescriptions described below are based on the current stand condition such as overall tree and stand growth, species mix, stand density, and stand health. **See Table 2 for prescription targets.**

In the sale area, the Douglas-fir less than 12 inches DBH will be harvested and the remaining Douglas-fir will be thinned to a basal area range of 100 to 120 square feet. All other species will be reserved.

This partial cut prescription will reduce the amount of overstocking. The resulting stand will have a stand density index of 25-30% which will maintain the crown ratios, stand vigor, and develop healthier and larger trees in the residual stand. This thinning will continue to move the stand along the pathway to more complex structure. Openings and gaps will allow for understory reinitiation of shrubs and tree species creating increased horizontal and vertical diversity. Another thinning will likely be needed in 10 to 15 years to keep this stand on a trajectory to complex stand structure. At this time managers will review density stand health, and landscape goals to decide future management prescriptions

#### **Down Wood and Snag Strategies**

Existing down wood will be left in the sale areas. Down wood recruitment is expected through mortality and windthrow of residual or leave trees, felled snags and tops left during harvest. Obvious defect in conifer logs will be bucked out in all harvest areas to enhance down wood levels. Small non-merchantable hardwood and conifer will be retained where possible in harvest units with the expectation they will become short term snags and down wood. Tops resulting from ground yarding will also be left in the unit.

Existing snags not determined to be a safety hazard will be retained and any felled snags will be left for down wood. Creation of snags is expected during harvest activities (rub trees, lift trees, or tail trees) and over time by natural processes.

Due to the size of the trees in this area, it is unrealistic to expect that the snag and down wood targets in the FMP will be met with this operation. During sale layout an assessment will be done to help determine the best green tree retention prescription to help meet these goals in the future.

**V. ESTIMATED TIMBER AND REVENUE INFORMATION:**

**Table 4. Timber and Revenue**

Ownership		Sale Type	
BOF	CSL	Cash	Recovery
100%	0%	<input type="checkbox"/>	X
Planned Quarter:		4	

	Conifer	Hardwood	Total
Net Volume (MBF)	1029	0	1029
Stumpage Value (\$/MBF)*	\$175	0	
Estimated Gross Value	\$180,075	0	\$180,075
		Project Costs:	\$40,600
		Estimated Net Value:	\$139,475

\* *Douglas-fir stumpage values based on harvest type.*

**VI. HARVESTING AND ACCESS CONSIDERATIONS:**

The sale areas are accessed via Ginger Creek Road and Nestucca Access Road. These are currently Bureau of Land Management roads and they are all weather, crushed rock roads. A license agreement may be needed to use the BLM roads. See maps for specific road locations and conditions.

Approximately 1.25 miles existing surfaced and 0.7 miles of existing unsurfaced road will be improved which includes grading, rocking, spot rocking, sidcast pullback, and adding new culverts. This work will bring all roads up to standards described in *the Forest Roads Manual*. Following harvest, roads within the sale areas will be reviewed for closure. See summary document for more information on this topic. The operation will be 60% cable yarding and 40% ground yarding.

**Table 5. Transportation Planning Summary (Miles)<sup>4</sup>**

Activity	Mainline	Collector	Rocked Spur <sup>1</sup>	Dirt Spur <sup>1</sup>
Construct				
Improve			1.25	0.7
Maintain <sup>2</sup>				
Close/Block <sup>3</sup>				
Vacate <sup>3</sup>				

1. *Additional roads may be built by the operator at the time of harvest and will be approved by the State through the Operations Plan. These will be short dead end spurs and closed or blocked after harvest*
2. *All roads accessing the sale area will be maintained during the life of the timber sale contract. Maintenance miles in the table are those roads not being constructed or improved.*

3. *Roads not closed/blocked or vacated at the end of the sale will be reviewed for closure after reforestation is established.*
4. *The numbers in this table reflect planned Project Work associated with the sale.*

## **VII. AQUATIC RESOURCES AND WATER QUALITY:**

Sandi Creek is a medium Type F Stream located within the sale area. There is also an unnamed large type F stream and an assumed Type F stream within the sale boundary. There are additional unnamed small perennial and seasonal Type N streams within the sale areas. These streams will be reviewed and protected appropriately during sale layout based on flow, topography, and terrain. The inner and outer riparian zones of these Type N streams will be managed towards mature forest condition.

The Oregon Department of Fish and Wildlife (ODFW) will be requested to complete stream surveys prior to sale layout. Streams of unknown status and assumed Type F status will be treated as Type F until surveys are completed to verify fish use.

Stream buffers within or adjacent to harvest unit boundaries will be managed according to *Forest Management Plan* Riparian Strategies. The riparian areas will be reviewed during sale layout for current stand conditions and/or operational constraints for implementing FMP strategies.

Refer to Aquatic Resource Protection Strategies in the Summary document for information on in the “in stream work period” road work and stream improvement projects.

## **VIII. T&E SPECIES CONSIDERATIONS:**

The sale area has been reviewed with the ODF Northwest Oregon Area Biologist.

It was determined that in the sale areas there is potential marbled murrelet habitat within or adjacent to the sale boundary. Surveys have been and will be conducted during the 2006 and 2007 survey season for marbled murrelets. All surveys for marbled murrelet were and will be conducted in accordance with Pacific Seabird Group (PSG) protocol. There have been no marbled murrelet detections during the 2006 survey season.

It was determined that in the sale areas there is potential northern spotted owl habitat within or adjacent to the sale boundary. Surveys have been and will be conducted during the 2006 and 2007 survey season for northern spotted owl. All northern spotted owl surveys were and will be conducted in accordance with USFWS endorsed protocol. There have been no northern spotted owl detections during the 2006 survey season.

T & E Plant species: The sale areas were checked against the Oregon Natural Heritage Program (ONHP) database of known threatened or endangered listed plant locations as well as local records in the Land Management Classification System (LMCS). No listed plants were identified within or adjacent to the sale areas.

**IX. SLOPE STABILITY AND GEOTECHNICAL ISSUES:**

There are only two bands of steep to very steep side-slopes located near the lower boundary. The initial risk assessment by the geotechnical specialist for the sale is moderate. The geotechnical specialist will be consulted during sale layout field work to determine if a field visit is necessary.

**X. RECREATION RESOURCES:**

The sale area is designated as Motorized in the *Tillamook State Forest Comprehensive Recreation Plan* (1993). This sale has been reviewed by the District Recreation Coordinator. No OHV trails were identified within or adjacent to the sale areas.

Recreational use common to this area includes hunting and hiking.

**XI. CULTURAL RESOURCES:**

The *Tillamook State Cultural Assessment* does not list cultural sites within or adjacent to the proposed sale boundary.

**XII. SCENIC RESOURCES:**

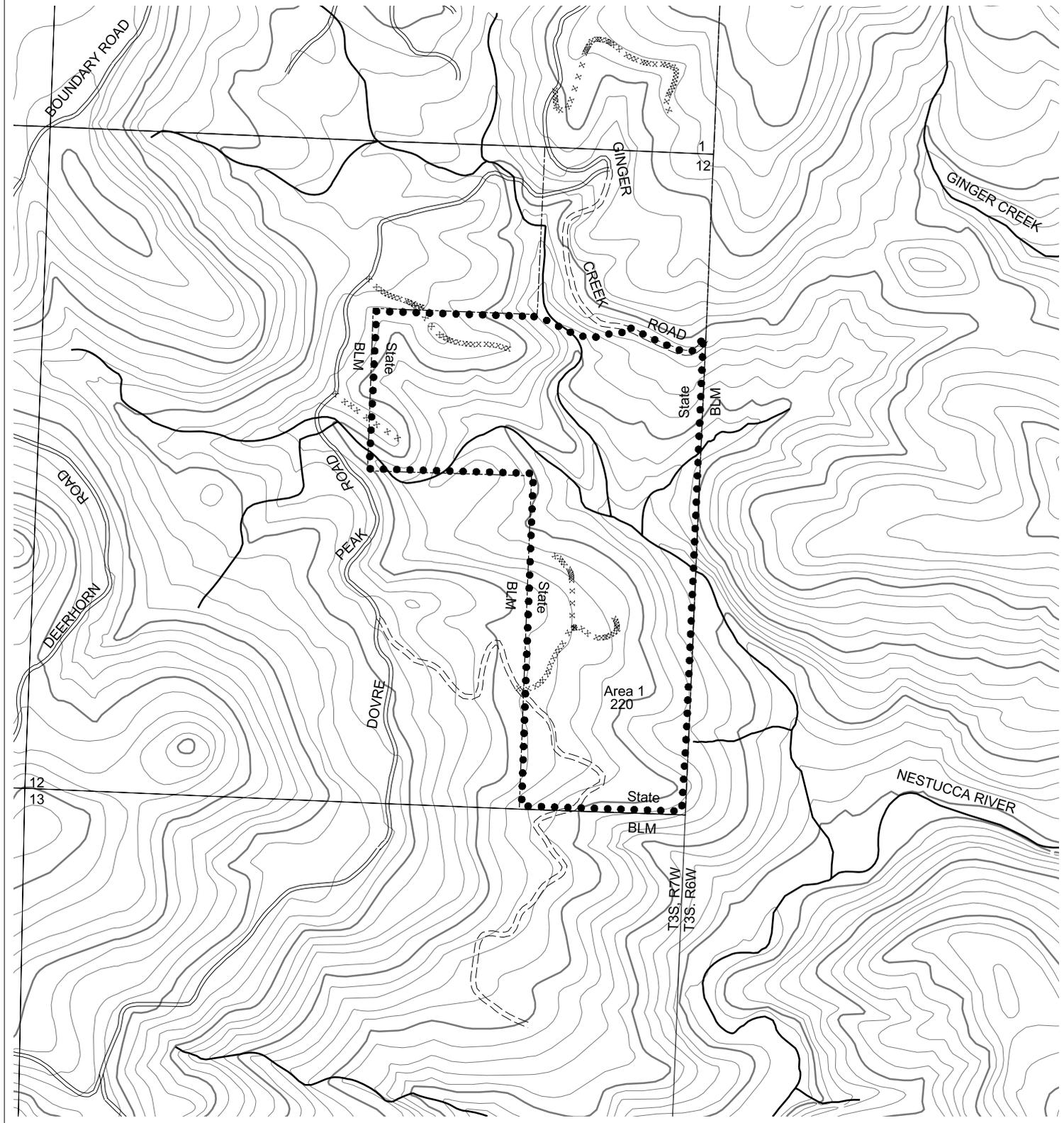
The sale area has a visual classification of Level 3, low sensitivity. No scenic impact is expected.

**XIII. OTHER RESOURCE CONSIDERATIONS:**

In order to harvest this sale area a special use permit will need to be obtained for guyline trees, tailholds, and roads that may be needed on private land.

**XIV. LAND MANAGEMENT CLASSIFICATION SUMMARY:**

The sale areas contain Focused and Special, Aquatic and Riparian Habitat. See Section VII, Aquatic Resources and Water Quality, for the management guidelines to be utilized.



**South Ginger**  
**-- Topography --**  
**2008 SALE PLAN**  
**TILLAMOOK DISTRICT**  
 Portions of Sections 12,  
 T3S, R7W, W. M.  
 Tillamook County, Oregon

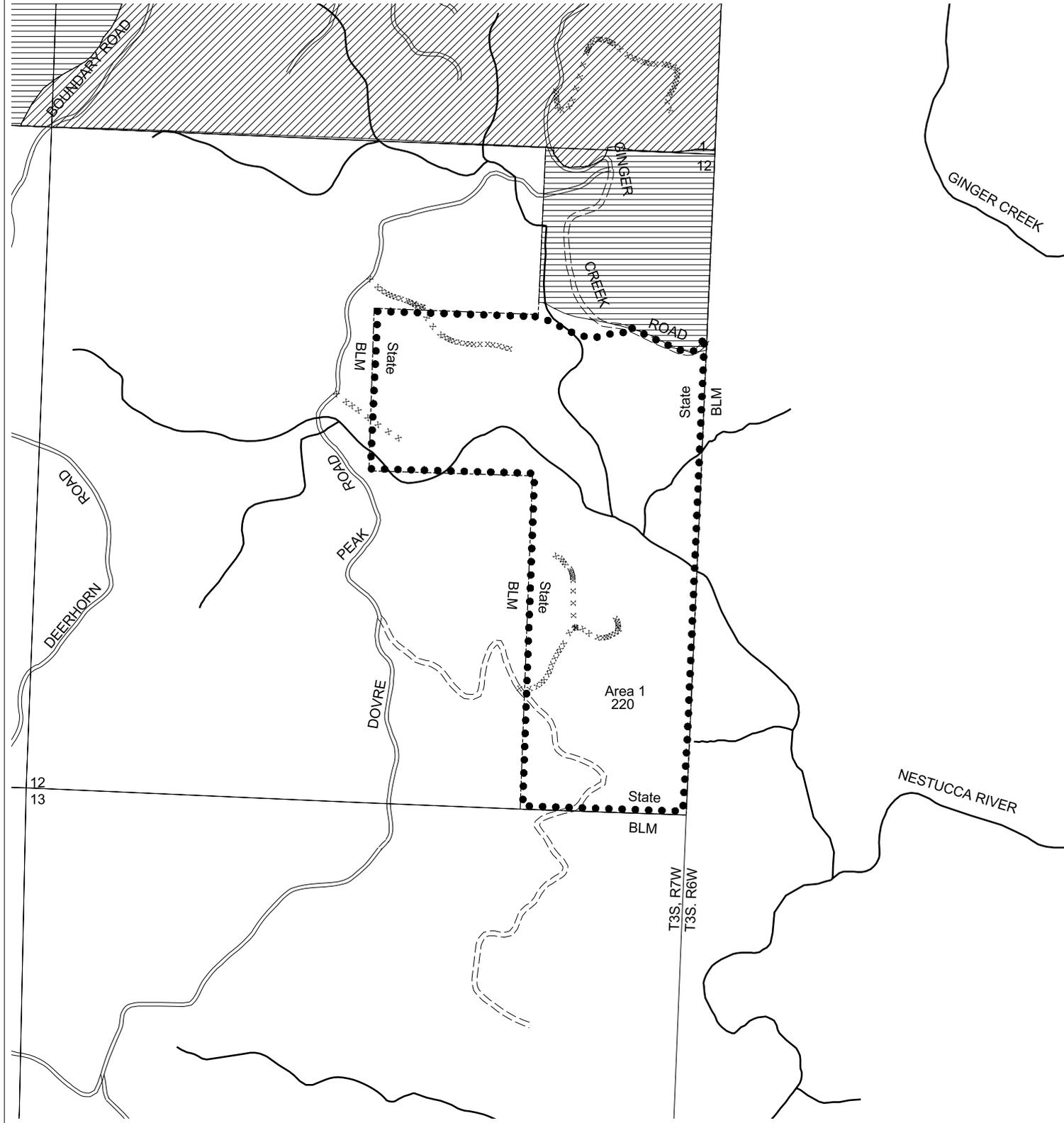
- Contour Interval 40'
- +--- Area boundary
  - Sale boundary
  - Ownership boundary
  - Perennial Type-F stream \*
  - Perennial Type-N stream \*
  - ==== Unsurfaced road
  - ===== Surfaced road
  - State/Federal highway
  - Legacy road
  - xxxxxx Blocked road
  - - - Road construction
  - County road
  - T T Transmission line

Area	Type of Operation
1	PC



Tillamook District GIS  
 Jan. 2007  
 This product is for informational use and  
 may not have been prepared for, or suitable  
 for legal, engineering, or surveying purposes.

\* Streams of unknown fish presence are not shown but will be surveyed prior to the sale



- Desired future condition
- Layered
  - Older forest
  - Area boundary
  - Sale boundary
  - Ownership boundary
  - Perennial Type-F stream \*
  - Perennial Type-N stream \*
  - Unsurfaced road
  - Surfaced road
  - State/Federal highway
  - Legacy road
  - Blocked road
  - Road construction
  - County road
  - Transmission line

**South Ginger**  
**-- Current and Future Condition --**  
**2008 SALE PLAN**  
**TILLAMOOK DISTRICT**  
 Portions of Sections 12,  
 T3S, R7W, W. M.  
 Tillamook County, Oregon

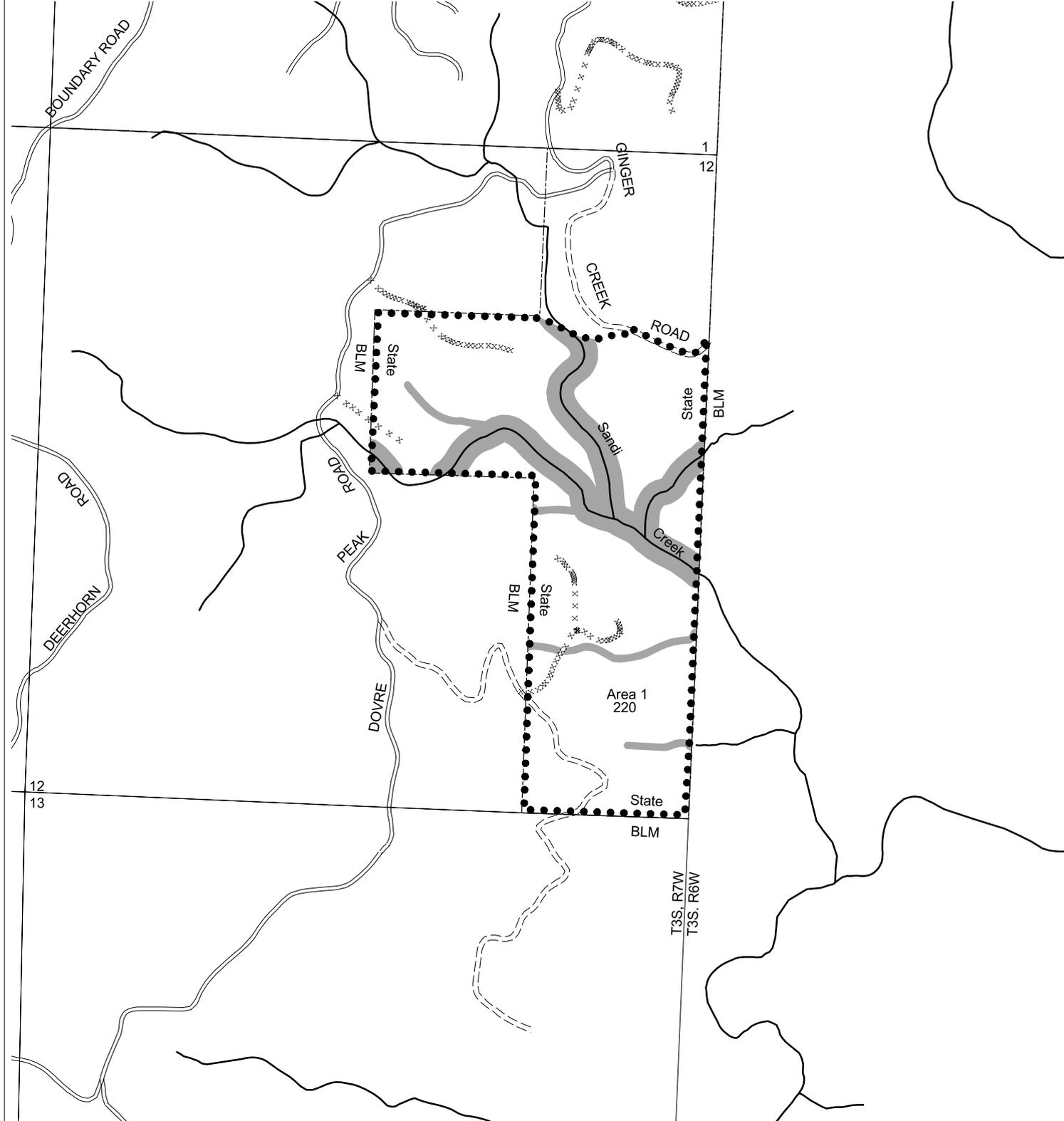


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Jan. 2007

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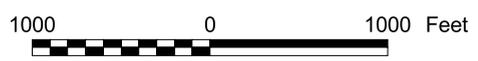
Area	Type of Operation
1	PC

\* Streams of unknown fish presence are not shown but will be surveyed prior to the sale



- Buffer
- Non-required thinning
- Area boundary
- Sale boundary
- Ownership boundary
- Perennial Type-F stream \*
- Perennial Type-N stream \*
- Unsurfaced road
- Surfaced road
- State/Federal highway
- Legacy road
- Blocked road
- Road construction
- County road
- Transmission line

**South Ginger**  
**-- Key Resources --**  
**2008 SALE PLAN**  
**TILLAMOOK DISTRICT**  
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Area	Type of Operation
1	PC

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