

# Pre-Operations Report

**Operation Name: Big Cut Aerial**

**County: Lane**

**Management Basin: Western Lane**

**Legal Description: Sec 16, T16S, R3E**

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

Area	Type of Operation	Gross Acres	Net Acres
1	Modified Clear Cut	74	73
2	Modified Clear Cut	41	39
<b>Total Units</b>			<b>112</b>
3	Leave Area	5	0
4	Leave Area	1	0

Net acres do not include stream buffers or existing roads.

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

The sale area is 25 miles east of Eugene in the Cascade foothills. Elevation is approximately 1600 feet. No soils information is available, but Area 1 is shallow, rocky soil and Area 2 is deeper, more productive soil.

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

The stands in Area 1 originated after wildfires about 1900. Area 1 is almost entirely Douglas-fir with a salal and huckleberry understory. No layering has occurred or is expected to occur without a major reduction of overstory shade. The area apparently burned hard about 120 years ago and left few snags and few old logs on the ground.

Area 2 is more sparsely stocked, more diverse, and with more layering of both conifer and hardwood. The overstory timber is 65 to 70 years old in the north half and about 115 years old in the southern portion.

The main leave area is large, open grown timber about 80 years old with some diversity and layering, but is still UDS. The small leave area is nearly pure DF about 115 years old with little diversity.

**Table 2. Stand Inventory Information (Gross Acres)**

Area	Prescription	Stand ID <sup>1</sup>	Species	Age	DBH	BA	TPA	SDI	Acres <sup>2</sup>
1	CC	112	DF	106	22	268	102	57	57
1	CC	111	DF	115	22	224	88	48	17
2	CC	103	DF	66	17	300	187	72	18
2	CC	111	DF	115	22	224	88	48	23
3	Leave Area	108	DF	90	21	204	85	44	5
4	Leave Area	111	DF	115	22	224	88	48	1
									121

- 1 The source of stand inventory information is OSCUR grown forward with a growth model.
- 2 Gross acres, unless otherwise noted, are based on orthophotos and include roads within units and riparian areas.

### III. DESIRED STAND CONDITION:

The entire section has a Desired Future Condition of General.

**Table 3. Stand Structure Information (Net Acres)**

Area	Stand ID	Current	Post Harvest	Desired Future	Acres
1	112	UDS	REG	GEN	56
1	111	UDS	REG	GEN	17
2	103	UDS	REG	GEN	18
2	111	UDS	REG	GEN	21
					112

Post Harvest: The stand is expected to develop into this condition in the five to ten years after this operation is completed.

### IV. PROPOSED MANAGEMENT PRESCRIPTION:

**Area 1.** Modified clear cut. Three trees per acre will be left for green tree retention (219) and one snag per acre (73 total) will be left or created. Green trees and snags will be concentrated in Area II because of operational concerns in Area 1.

**Area 2.** Modified clear cut. Eight trees per acre will be left for green tree retention (234) and 3 snags per acre (117 total) will be left or created.

**Leave Areas.** There will be a 5 acre leave area to the west of Area 1 and a one acre leave area to the east. 34 snags will be left or created in these leave areas.

**Down Wood.** Some down wood already exists in the units. Additional down wood will come from tops required to be left, broken pieces, missed logs, and the tops of created snags. No trees will be felled specifically to create additional down wood. The timber is large and Area I is steep and rocky. Considerable breakage is anticipated. Minimum removal requirements will be logs over 20 feet long, and over 50 board feet net volume.

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

**Table 4. Timber and Revenue**

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

	Conifer	Hardwood	Total
Net Volume (MBF)	5500	0	5000
Stumpage Value (\$/MBF)	\$300	NA	
Estimated Gross Value	\$1,640,000	\$0	\$1,650,000
		Project Costs:	\$65,000
		Estimated Net Value:	\$1,585,000

**VI. TRANSPORTATION PLANNING AND HARVESTING:**

Portions of the west part of the sale can be cable logged from existing roads and a 1100 foot spur to be constructed. For the bulk of the sale, the purchaser will have the option of helicopter logging or difficult, long reach cable from an existing landing with poor guy anchors north of the sale area.

Road construction and improvement is on gentle to moderate ground. Spur 1 will be improved by adding rock.

Spur 1a will be an outsloped rocked road.

If needed, a helicopter landing will be constructed at the end of Spur 1.

The sale requires R/W from private owners.

**Table 5. Transportation Planning Summary (Miles).**

Activity	Mainline	Collector	Rocked Spur	Dirt Spur
Construct	0	0	0.2	0
Improve	0	1.0	0	0
Maintain	8.7	1.0	0.2	0
Close/Block	0	0	0	0 (Gated Access)
Vacate	0	0	0	0

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

The sale area contains two non-fish, perennial streams. Gate Creek, a good Type F stream, is near the sale but is across the Lower Gate Creek Road, a main haul road.

Management activities within riparian areas of streams will focus on achieving properly functioning aquatic and riparian habitat conditions over time. Riparian Management Areas (RMAs) will be established immediately adjacent to the Type N streams for the purpose of protecting aquatic and riparian resources and maintaining the functions and ecological processes of the stream. The Management Standards for Aquatic and Riparian Areas found in the *NWO State Forests Management Plan* (pg. J-1 - J-16) will be the minimum standards followed within these RMA's.

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

**T&E Birds:** The sale is within an active spotted owl circle and is too far inland for marbled murrelets.

A preliminary biological assessment has been completed by the Area biologist. This assessment concludes that the sale is currently consistent with ODF's policies for northern spotted owls and marbled murrelets.

**T&E Plants:** The sale area was checked against the Oregon Natural Heritage Program (OHNP) database of known listed plant locations. The sale area was also checked against district knowledge for any listed plant location. No listed plant records were identified within the sale area.

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

High landslide hazard locations are scattered across Area I and there is low to moderate risk to the South Fork of Gate Creek. The hazard and risk in Area II is low. However, Area II appears to be on a large landslide landform. If signs of recent landslide activity are identified during timber sale layout, the geotechnical specialist will be consulted. In addition, if high landslide hazard locations are identified in Area II during timber sale layout, the geotechnical specialist will be consulted.

**X. RECREATION RESOURCES:**

Hunters use the plantations adjacent to the sale area. Harvesting will temporarily increase recreational opportunity. The sale area is miles behind private gates which are open only during general hunting season for daytime use.

**XI. CULTURAL RESOURCES:**

No cultural resources sites are known to exist in the area.

**XII. SCENIC RESOURCES:**

The area is not visible from public roads or homes.

**XIII. OTHER RESOURCE CONSIDERATIONS:**

None known.

**XIV. LAND MANAGEMENT CLASSIFICATION SUMMARY:**

This table summarizes the acres of Focused and Special Stewardship within the operations. The acres in each operational area in this table do not necessarily add up to its gross or net acres, because of overlapping classifications under the Land Management Classification System. For example, a particular acre can be classified as Focused Stewardship for Aquatic and Riparian, Recreation, and Scenic resources.

**Table 6. Land Management Classification Summary**

Area	LMCS Subclass	Focused Stewardship	Special Stewardship
I	Aquatic & Riparian	0.8	0
II	Aquatic & Riparian	0.8	0