

# Pre-Operations Report

**Operation Name:** Spout-Off  
**County:** Lincoln  
**Management Basin:** Blodgett

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

Area	Type of Operation	Gross Acres	Net Acres
	Modified Clearcut	64	57

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

This operation consists of a modified clearcut. The unit is in the western hemlock zone. Average annual rainfall is 78" to 100". The soils are all Valino.

The operation area is located on gentle to moderate slopes just below Goat Ridge in the headwaters of Spout Creek. There are a few steep slopes on the southwest boundary of the operation area. The underlying rock is sedimentary origin rocks of the Tye Formation with very thick sequence of rhythmically bedded, medium- to fine-grained marine sandstone and siltstone

Aspect is predominately south.

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

The operation area supports 70 year old Douglas-fir trees with some red alder and big leaf maple intermixed. There is a small patch of relatively pure red alder in the north portion of the stand. An older cohort of large, open-grown Douglas-fir exists in the north and center portions of the unit. There are a few snags and some down wood in the operation area. Brush species include vine maple, hazel, salal, and sword fern.

The stand type is Understory (UDS)

**Table 2. Stand Inventory Information**

Area	Prescription	Stand ID <sup>1</sup>	Species	Age	DBH	BA	TPA	RD	Acres <sup>2</sup>
	Modified Clearcut	18606	D-fir	72	22	330	130	71	49
	Modified Clearcut	18607	D.fir	140	28	207	50	39	4
	Modified Clearcut	18610	D.fir	64	20	355	164	79	4

1 The source of stand inventory information is OSCUR from 1999.

2 The acres are based on orthophotos and GIS and exclude roads, stream buffers, reserve areas, etc.

### III. DESIRED STAND CONDITION:

According to the districts landscape design, the operation area is designated as DFC General and is not scheduled to become a more complex stand such as Layered (LYR) or Older Forest Structure (OFS). The anticipated pathway is to move from UDS to Regeneration (REG) through clearcutting and replanting, then to Closed Single Canopy (CSC) and finally to UDS, utilizing future commercial thinning entries.

**Table 3. Stand Structure Information**

Area	Stand ID	Current	Post Harvest <sup>1</sup>	Desired Future	Acres
	18606	UDS	REG	UDS	49
	18607	UDS	REG	UDS	4
	18610	UDS	REG	UDS	4

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

### IV. PROPOSED MANAGEMENT PRESCRIPTION:

The operation will be a modified clearcut prescription leaving behind about 10-12 green trees per acre that will be greater than 18" DBH. Snags and down wood will be created from these reserve trees over time as nature takes its course. All the older cohort Douglas-fir trees will be retained as part of the leave tree requirements. Some red alder and big leaf maple will be included as reserve trees. A significant number of reserve trees will be contained in a leave area located immediately to the southeast of the operation area.

Existing snags that do not pose a safety hazard and all down wood will be retained.

After harvest, slash piling on about 30% of the operation area will be accomplished and the piles will be burned. A site prep herbicide spray treatment will be applied to the entire unit. Mountain beavers will be trapped prior to planting. Seedlings to be planted will be about 60% Douglas-fir, 15% western hemlock, 15% red alder, and 10% western red cedar. Total trees per acre

planted will be about 400. All cedar will be tubed to protect them from deer and elk browse.

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

**Table 4. Timber and Revenue**

Ownership		Sale Type	
BOF	CSL	Cash	Recovery
100%	%		X
Planned Quarter: 4			

	Conifer	Hardwood	Total
Net Volume (MBF)	2,500	100	2,600
Stumpage Value (\$/MBF)	\$350	\$225	
Estimated Gross Value	\$875,000	\$22,000	\$897,000
		Project Costs:	\$158,000
		Estimated Net Value:	\$739,000

**VI. TRANSPORTATION PLANNING AND HARVESTING:**

Access to the operation area is from Goat Ridge Road for the north portion of the operation area and from a private road that comes off the Harlan-Burnt Woods road for the south part of the unit. Goat Ridge Road is rocked and is in fair condition. A lift of rock will be applied to re-establish its original design standard. The private access road is mostly unsurfaced but in good condition. Use of the private road will require an access permit.

Major road systems that provide access to the operation area are in place. However, only about 20% of the operation area could be harvested from existing roads. Three options for providing access to the rest of the area were considered. Accessing the entire unit from Goat Ridge Road was analyzed but providing a road to the south landing wasn't feasible due to an insurmountable difference in elevation. Accessing the entire unit from the private road to the west was considered but the north landing wasn't accessible because the difference in elevation was too great. For those reasons, the proposed access plan uses spur roads off of Goat Ridge Road and the private road to the west of the operation area.

Approximately 0.4 miles of new road construction will be required to access landings. A short segment of the new road that will be built from Goat Ridge Road into the north portion of the unit crosses steep ground and will need to be endhauled. Otherwise, the remaining location for new road construction will be on gentle ground or ridgetop.

About 1.9 miles of road improvement will be required. A stream crossing culvert will be replaced on a tributary to Cline Creek along Cline Creek road.

Harvesting timber in the operation area would require a combination of about 80% cable yarding and 20% ground skidding.

The new spur roads required to access landings in the unit will be unsurfaced. All unsurfaced roads will be waterbarred, blocked to vehicular traffic, and grass seeded, after harvesting operations are concluded and/or at the beginning of the wet season.

An old existing access road through the southern most portion of the unit may be vacated, depending on access agreements with a private landowner. This road poses no threats to the environment.

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

Activity	Mainline	Collector	Rocked Spur	Dirt Spur
Construct	0	0	0	0.4
Improve	0	0	1.8	0.1
Maintain	0	0	0	0.7
Close/Block	0	0	0	1.2
Vacate	0	0	0	0.5

\* For determination of road class either use results of the Harvest and Habitat roads classifications, or if this information is not available then low use roads are spurs, medium use roads are collectors and high use roads are mainlines. Use these same criteria when comparing the total for all AOP sales to the IP plans.

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

Waters that flow from this unit are part of the Yaquina River system. This operation is in proximity to streams in which T&E listed fish are present.

A type F stream is located on the extreme south end of the operation area. This stream will be posted out of the unit for a distance of at least 100 feet horizontal distance. Sufficient numbers of trees will be retained in the outer riparian management area (RMA) zone to comply with current standards.

Type N streams are present in the operation area. A 50'-75' horizontal distance buffer strip will be posted along both sides of these streams. In the remaining portion of the RMA, sufficient trees will be reserved to comply with current standards.

Vegetation along type F and N streams includes Douglas-fir and hardwood trees, and brush such as vine maple, sword fern, and salmonberry.

There are no domestic water rights associated with this operation.

Activities that will take place in proximity to the streams, listed above, include timber felling and yarding. The following measures will be employed to minimize impacts to the stream: 1) no timber will be felled within the buffer except to facilitate cable yarding, 2) timber above the buffer will be felled away from or parallel to the stream, 3) timber will be yarded away from the stream, where possible, 4) if it is necessary to yard across the stream, logs will be fully suspended above the buffer vegetation, and 5) single end suspension of logs will be required elsewhere in the unit.

Other requirements designed to minimize impacts to streams include seasonal restrictions for road construction and log hauling.

The Land Management Classification System for the Aquatic and Riparian category determined 12 acres of Focused Stewardship. Focused Stewardship acres are distributed along type N stream RMA's and the outer zone of type F streams.

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

The operation area appears to contain suitable habitat for northern spotted owls and marbled murrelets. The area wildlife biologist will analyze the area and determine if suitable habitat is present. If habitat is present surveys will be conducted in 2005 and 2006.

T&E fish: Spout creek supports "threatened" Coho salmon. For a discussion of protection measures see Section VI. "Harvesting and Access Considerations" and Section VII. "Aquatic Resources and Water Quality".

The operation area was checked against district knowledge for any listed plant location. The operation area was also checked against the Oregon Natural Heritage Program (ONHP) database of known listed plant locations. No listed plant records were identified within the operations area.

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

The initial assessment by the geotechnical specialist is low. The geotechnical specialist may be consulted if concerns arise during sale layout.

#### **X. RECREATION RESOURCES:**

Recreation for the operation area consists of hunting.

**XI. CULTURAL RESOURCES:**

There are no known cultural resources within or adjacent to the operation area.

**XII. SCENIC RESOURCES:**

The operation area is not visible from any paved highway.

**XIII. OTHER RESOURCE CONSIDERATIONS:**

No other resource considerations have been identified.

**XIV. LAND MANAGEMENT CLASSIFICATION SUMMARY:**

**Table 6. Land Management Classification Summary**

Area	LMCS Subclass	Focused Stewardship	Special Stewardship
I	Aquatic and Riparian Habitat	12	0

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.