

Pre-Operations Report

Operation Name: The Other Half
County: Marion
Management Basin: Scattered

Table 1. Operation Areas, Types and Acres

Area	Type of Operation	Gross Acres	Net Acres
	Modified Clearcut	65	60
Total		65	60

I. PHYSICAL DESCRIPTION OF OPERATION AREA:

The operation is located within a temperate climate area. Typically the fall and winter seasons are wet. This area receives approximately 40 to 90 inches of rainfall per year. The operation is located within the *Tsuga heterophylla* Zone (*Natural Vegetation of Oregon and Washington, Franklin & Dyrness, 1973*).

The sale is located on moderate slopes of the divide between Canyon Creek and Bear Creek above Little North Santiam River. There are small areas of steep slopes at the headwaters of a tributary of Bear Creek. The sale is underlain by igneous origin rocks, flows and flow breccias, mapped as "Flows and clastic rocks undifferentiated."

The soil within the operation consists of McCully clay loam. This soil consists of well-drained clay loams over clay. The permeability of this soil is moderately slow. This soil is in a site class 2 for Douglas-fir. (*Soil Survey of Marion County Area, Oregon; USDA, 1792*) The elevation within the operation ranges from 1,760 to 2,180 feet.

II. CURRENT STAND CONDITION:

This is a 70 year old stand currently classified as Understory. The overstory consists mainly of Douglas-fir with a very minor component of big leaf maple, golden chinkapin, and red alder. Dense patches of salal, vine maple, hazel and ferns can be found in the understory. There are currently 5 snags per acre; little down wood; and 280 cubic feet per acre of down wood in all decay classes. (*SLI, 2004*)

Table 2. Stand Inventory Information

Area	Prescription	Stand ID ¹	Species	Age	DBH	BA	TPA	SDI	Acres ²
	MC	12203	DF	70	22	222	81	49	65

1 The source of stand inventory information is SLI from 2004.

2 The acres are based on GIS and include roads, streams buffers, reserve areas, etc.

III. DESIRED FUTURE CONDITION/VISION:

This operation is located in the Scattered Basin. This basin is a diverse mixture of ownership, stand ages, species mixtures, and site quality. As indicated by its name, the Scattered Basin is a conglomeration of scattered ODF ownership parcels that range in size from 40 acres to 1,000 acres. These parcels within the operation range from 40 to approximately 200 acres in size. Most of the smaller parcels within the basin are viewed as land exchange candidates due to the intermingled nature of the ownership. The Other Half operation is a land exchange candidate.

The DFC for Area I is General. (*Cascade District Implementation Plan, 2003*).

The **Anticipated Pathway for Area I** begins with removal of the overstory.

- Modified clearcut of the current stand. Underproductive stands will be harvested and intensively managed new stands will be established while maintaining or developing the structural components important to habitat diversity. The sale area will be reforested with a mixture of Douglas-fir and western red cedar seedlings.
- At age 10-15, a pre-commercial thin is anticipated given the planting density and natural seed-in.
- A first entry commercial thinning is planned around age 40.
- A final harvest will be considered around age 75-80.

Table 3. Stand Structure Information

Area	Stand ID	Current	Post Harvest ¹	Desired Future	Acres
1	12203	UDS	REG	GEN	65

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 **proposed management prescription for Area I**, type 12203, is:

This operation will be a modified clearcut

- Retain 7 green conifer trees and 1 green hardwood tree per acre. All Douglas-fir trees greater than 38 inches in diameter will be reserved. If additional green trees are needed to meet the seven trees per acre goal, Douglas-fir trees greater than 20 inches in diameter will be reserved. Reserve hardwood green trees will be red alder and bigleaf maple larger than 12 inches
- The slash from the operation will be piled and burned on the flat ground and whole tree yarded on the steeper ground to prepare the site for planting.
- The site will be replanted with Douglas-fir and western red cedar seedlings.
- Down wood needs will be evaluated during sale layout, as wind storms in 2006 and 2007 have added fresh down wood since SLI was completed. If additional down wood is needed to meet landscape targets, it will be added. This material is expected to come during the operation from cull material and top logs with oversized knots.

V. ESTIMATED TIMBER AND REVENUE INFORMATION:

Table 4. Timber and Revenue

Ownership		Sale Type	
BOF	CSL	Cash	Recovery
100%	0%		x
Planned Quarter:		2	

	Conifer	Hardwood	Total
Net Volume (MBF)	2,100	20	2,120
Stumpage Value (\$/MBF)	\$250	\$200	
Estimated Gross Value	\$525,000	\$4,000	\$529,000
		Project Costs:	\$17,000
		Estimated Net Value:	\$512,000

VI. HARVESTING AND ACCESS CONSIDERATIONS:

Access to this sale will be via North Fork Road, the 2000 Road and an unnamed spur road. These are all currently all weather roads.

Approximately 0.38 miles of road will be constructed and 0.51 miles of reconstruction to facilitate logging. All four spurs will be unsurfaced. A road easement for log haul will need to be obtained from the Bureau of Land Management and Frères Lumber Company, Inc. for the 2000 Road. An easement for road construction will need to be obtained from Frères Lumber Company, Inc. Additional project work includes two miles of mechanical brushing.

New road construction is limited to ridgetops and gentle to moderate sideslopes.

With the exception of the new construction and reconstruction, all roads will have high quality crushed rock or pit run surfacing. Roads will be of a standard that provide access to all timber within the sale area and will allow for logging methods and hauling that minimize impacts to soil, residual timber, streams and riparian areas.

Following harvest, roads and skid trails within the sale area will be evaluated for closure.

Project work costs are estimated to be \$17,000.

The sale area is 20% cable yarding and 80% ground yarding.

Table 5. Transportation Management Summary (Miles)

Activity	Mainline	Collector	Rocked Spur	Dirt Spur
Construct				.38
Reconstruct				.51
Maintain		3.65*	.95	.89
Close/Block				
Vacate				

*Costs include 2 miles of road brushing

VII. AQUATIC RESOURCES AND WATER QUALITY:

There are several small streams located within the operation. On initial reconnaissance these streams appear to be perennial and seasonal nonfish-bearing streams. Before timber sale layout streams will be surveyed for fish use. All streams within the operations flow into tributaries of the Little North Fork Santiam River.

Overstory vegetation within the riparian zones includes Douglas-fir, red alder, and bigleaf maple. The riparian understory consists of bigleaf maple and

western hemlock along with some scattered vine maple, salal, ocean spray, and Oregon grape.

See Pages 6 and 7 of the AOP Summary (under Timber Harvest Operations) for the riparian area management guidelines to be utilized.

VIII. T&E SPECIES CONSIDERATIONS:

This operation was surveyed for Northern Spotted Owls during the 2007 and 2008 survey seasons with no detections. It will be surveyed again during the 2009 survey season.

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's database of known listed plant locations. No listed plant records were identified within the operation area.

IX. SLOPE STABILITY AND GEOTECHNICAL ISSUES:

This assessment is based on analysis of USGS 1:24,000 topographic maps and available geologic maps. There may be a few high landslide hazard locations in the sale area. The eastern portion of the sale area drains into Bear Creek. The western portion of the sale area drains into Canyon Creek. The risk of landslides delivering to these streams from the sale area is low.

X. RECREATION RESOURCES:

There are no developed recreation facilities inside the timber sale boundary. Known recreation activities are dispersed in nature such as hunting, site seeing and target shooting. It will be important for both the operators and visiting public to use caution on roadways. To deter illegal motorized off-road use, illegal fires and garbage dumping in this area, skid roads/spurs will be closed.

XI. CULTURAL RESOURCES:

Pre-operation reconnaissance revealed no visible cultural resource features or artifacts. If discovery is made, the cultural resource will be protected and field staff will consult with the Cultural Resource Specialist in Salem.

XII. SCENIC RESOURCES:

There are no scenic resources located within the operation.

XIII. OTHER RESOURCE CONSIDERATIONS:

To protect air quality, the planned burn will comply with the Oregon Smoke Management Plan. The Smoke Management Plan is designed to reduce emissions from prescribed burning in western Oregon and to minimize smoke intrusions into designated population areas.

XIV. LAND MANAGEMENT CLASSIFICATION SUMMARY:

The operation contains Focused Stewardship, Aquatic and Riparian Habitat for three small streams. See Section VII, Aquatic Resources and Water Quality, for more information.



Legend

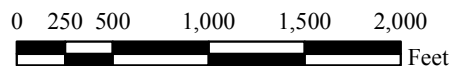
- Sale Boundary
- — Road Construction
- ==== Surfaced Road
- == == Unsurfaced
- Type F Stream
- Type N Stream
- Unknown Stream
- - - Santiam State Forest
- 20 Foot Contour Lines

THE OTHER HALF

FY 2010 AOP
 NORTH CASCADE DISTRICT
 ATTACHMENT A : TOPOGRAPHY

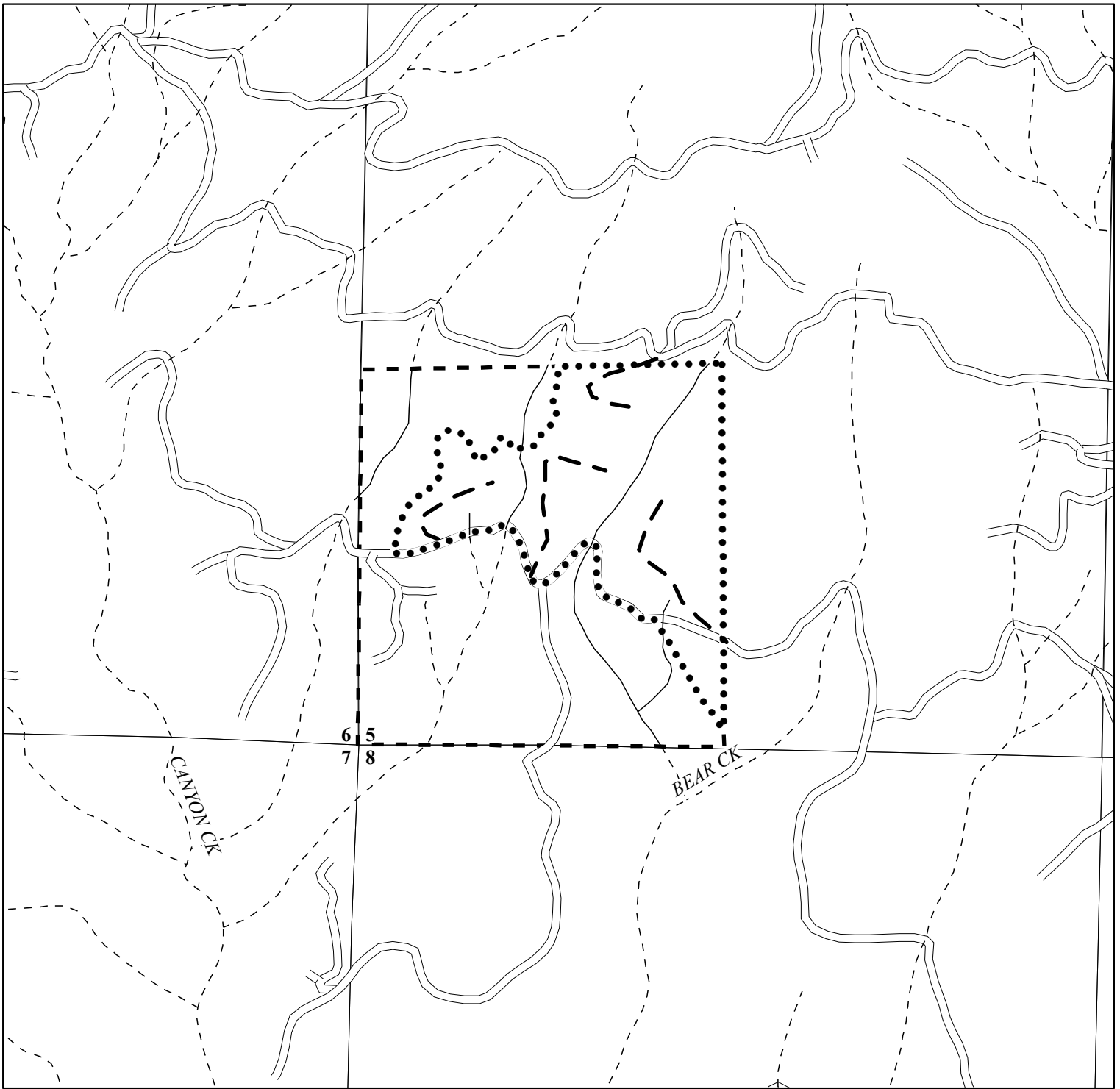
PORTIONS OF SECTION 5
 T9S, R3E, W.M.
 MARION COUNTY, OR

Scale
 1:12,000
 1 inch equals 1,035 feet



APPROXIMATE NET ACRES: 60 (MC)

This product is for informational use and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes.



Legend

- Sale Boundary
- - - Road Construction
- ==== Surfaced Road
- == == Unsurfaced
- Type F Stream
- Type N Stream
- Unknown Stream
- //// LYR
- ==== OFS
- - - - Santiam State Forest

THE OTHER HALF

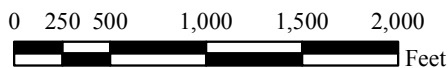
FY 2010 AOP
 NORTH CASCADE DISTRICT
 ATTACHMENT B: DESIRED FUTURE CONDITION

PORTIONS OF SECTION 5
 T9S, R3E, W.M.
 MARION COUNTY, OR

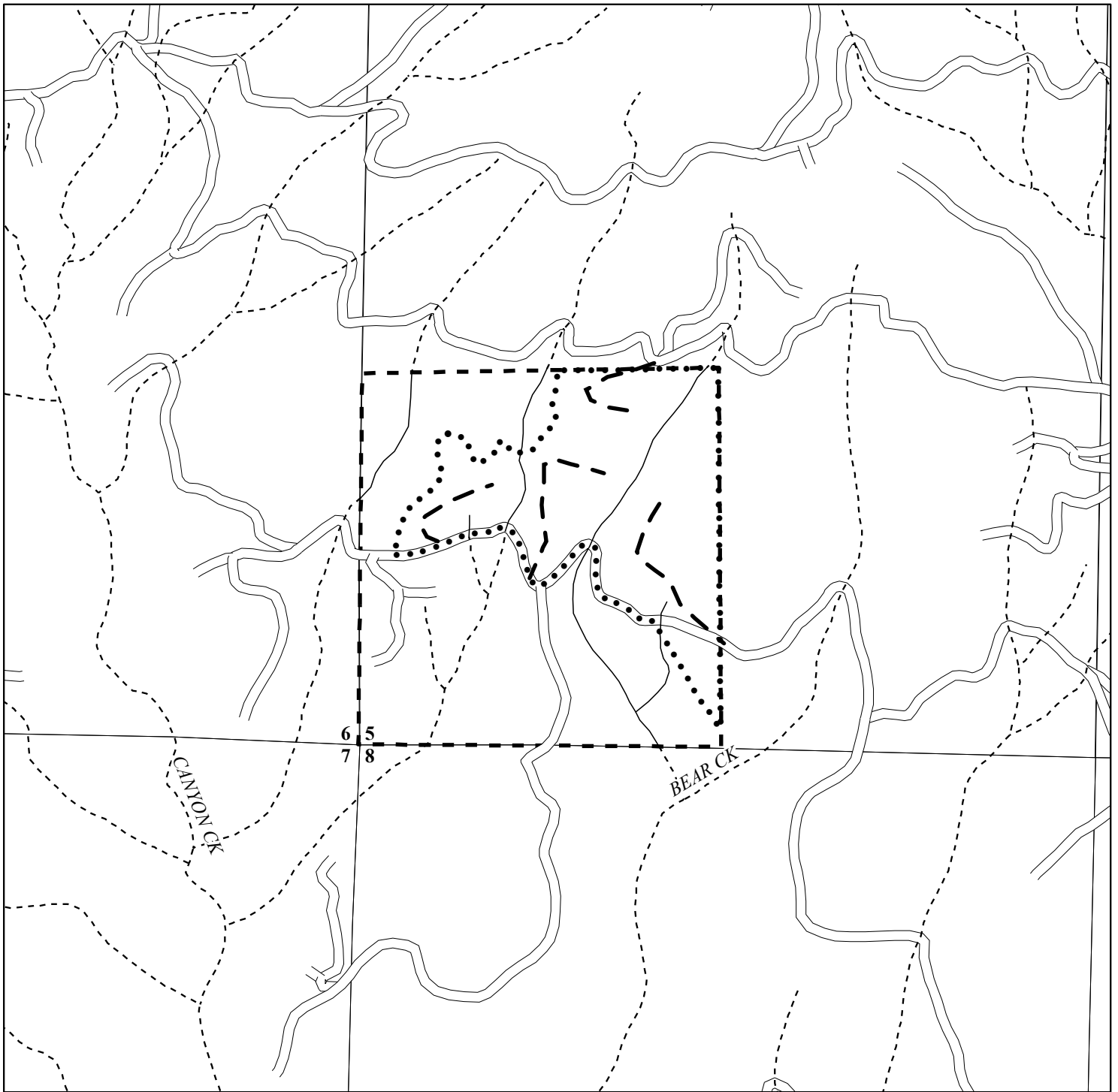
APPROXIMATE NET ACRES: 60 (MC)

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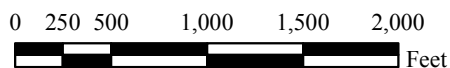
THE OTHER HALF

FY 2010 AOP
 NORTH CASCADE DISTRICT
 ATTACHMENT C : KEY RESOURCES

PORTIONS OF SECTION 5
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1 inch equals 1,034 feet



Legend

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