

## Pre-Operations Report

**Operation Name: Sick Puppy**  
**County: Klamath**

Table 1. Operation Areas, Types and Acres

Stand	Type of Operation	Gross Acres	Net Acres
192	Partial Cut	406	406
193	Partial Cut	323	323
<b>Total</b>		<b>729</b>	<b>729</b>

### I. PHYSICAL DESCRIPTION OF OPERATION AREA:

**Soil Types:** The sale area consists primarily of the Hallet series soil. This is a deep, coarse textured soil developed from coarse pumice and volcanic ash. It is operable with ground based skidding equipment at any time of year.

#### **Vegetation Zone**

Stands 192, 193: White fir forest zone. Plant association – Mixed conifer/snowbrush/sedge (CWS1-15)

#### **Slope, Aspect, and Topography:**

In Stand 192, slopes range from level to 17%, while aspect is primarily south to southeast. Stand 193 has the same range of slopes. The stand covers both sides of a north-south ridge and has aspects ranging from west to south to east.

### II. CURRENT STAND CONDITION:

Table 2. Stand Inventory Information.

Area	Prescription	Stand ID <sup>1</sup>	Species	DBH <sup>3</sup>	BA <sup>4</sup>	TPA <sup>5</sup>	SDI <sup>6</sup>	Acres <sup>2</sup>
1	PC	192	WF	14.6	123.7	423.6	257	406
			PP	13	23.8	63.1	47	
			SP	15.2	15.4	23.6	27.2	
			<b>Totals</b>			<b>162.9</b>	<b>510.3</b>	<b>331.2</b>
1	PC	193	WF	15.8	85.4	372.7	186.3	323
			PP	11.1	26.9	121.7	59.1	
			SP	14.1	17.5	51.5	35.3	
			DF	19.6	1.6	2.7	2.9	
			IC	9.6	3.1	35.5	8.2	
			<b>Totals</b>			<b>134.5</b>	<b>584.1</b>	<b>291.8</b>

<sup>1</sup> The source of stand inventory information is from 2003 field inventory.

- 2 The acres are based on GIS and roads, stream buffers, reserve areas, etc are included in gross acreage.
- 3 The DBH represented is the average DBH of trees 8" and larger for volume and value computations.
- 4. BA – Basal Area
- 5. TPA – Trees per Acre
- 6. SDI – Stand Density Index

Both stands are overstocked with stand density index (SDI) ranging from 291 to 331. Current guidelines in this area call for keeping stands under SDI 270 in order to maintain stand health at levels to resist insect attacks. In addition, both stands are dominated by white fir. This is primarily due to past harvests that focused to a large extent on harvesting the more valuable pine species.

The following table shows the current condition for large trees in the sale area.

<u>Stand</u>	<u>TPA &gt;20"</u>	<u>TPA &gt;30"</u>
192	22.97 (3.2 pine)	0.48
193	16.19 (2.6 pine)	1.01

**III. DESIRED FUTURE CONDITION/VISION:**

Two entries from now, in 30-50 years, stands 192 and 193 will have the following characteristics:

- A healthy all aged stand with ponderosa pine and sugar pine composing 70% of the basal area, and white fir making up the remainder.
- Stand composition and structure allows sustained periodic harvest entries at a 15 to 25 year interval.
- The stands meet or are closely approaching the “Desired Future Condition for Large Trees in the Sun Pass State Forest” goals. The goal is to have 10 trees >20” dbh with at least 2 of those trees >30” dbh.
- There are younger cohorts of sugar pine and ponderosa scattered throughout the stands individually and in small clumps.
- Fuels are arranged and at acceptable levels to reduce the adverse impacts of wildfires.
- Snags, down wood, and cover, are at the desirable levels to provide wildlife habitat.
- Shrubs and forbs are maintained at desired levels to provide forage production.

**IV. PROPOSED MANAGEMENT PRESCRIPTION:**

The stand objective is to develop an uneven-aged stand dominated by ponderosa pine and sugar pine. Over the next two entries, white fir will be reduced to approximately 30% of basal area. Other tree species (incense cedar and Douglas fir) will be retained and planted for biodiversity and market diversity. Both stands are above the desired future condition goal for trees greater than 20”dbh, while both are under the goal for trees over 30” dbh. Many of the large

white firs will be harvested in the effort to move the stand towards a higher pine component. Large, high defect white fir will be left for wildlife throughout the stands. In addition, white fir groups left for cover will contain some large white fir.

The forest health objectives will be accomplished by reducing stand density and by species composition manipulation. Past harvests both prior to and since state ownership have led to white fir dominance in this mixed conifer site. Silvicultural manipulation of the stand will include group selection and single tree selection generally as a thin from below favoring ponderosa and sugar pine. Group selection will focus on areas of white fir concentrations. Group selections will range from less than ¼ acre to 5 acres in size. Most of the sale area is over the 5,000' elevation level. At this level, white fir would have naturally been a significant stand component. For this reason, the goal for species composition manipulation is to reduce white fir to about 30% of stand basal area over the next two entries. This target will enable us to retain significant cover areas for wildlife in this entry, while enabling the conversion of significant areas to pine. All of the group selection areas will be planted with ponderosa pine, sugar pine and possibly some incense cedar and Douglas fir.

Most of the existing snags and high defect trees will be retained for wildlife habitat enhancement unless their juxtaposition conflicts with the safety of the logging operation. Existing large downed wood, long butts from the logging operation, and cull logs will be left in place or skidded from the landing and scattered on the sale area.

The sale plan is intended to include the treatment of both sawlog sized material and subsawlog sized material. Designated trees 5" to 8" dbh will be required to be yarded to the landing as part of the project work. These trees will be chipped or utilized as poles if the market allows or the piles will be burned.

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

Table 4. Timber and Revenue

Sale Type:	Recovery	Planned Quarter:	4
Fund Percentage	100	% BOF	
Net Volume	4,439	Conifer MBF	
Stumpage Value	\$295.72	Conifer (\$/MBF)	
Estimated Gross Value	\$1,312,720		
Project Costs:	\$47,455		
Estimated Net Value	\$1,265,265		

**VI. HARVESTING AND ACCESS CONSIDERATIONS:**

Existing roads and skid trails from the previous sale in 1970 are present on the sale area. There are no access issues. Haul roads are all on state owned land. Because of the gentle terrain, ground based logging equipment will be employed.

A mechanical feller-buncher will be required for harvesting of the smaller diameter timber and submerchantable material. This will result in minimal damage to reserved trees. Where possible, existing landings and skid trails shall be utilized.

The District will close existing an estimated 5.6 miles of roads.

Table 5. Transportation Management Summary (Miles).

Activity	Mainline	Collector	Dirt Spur
Construction	0.0	0.0	0.2
Improvement	0.0	5.3	0.0
Maintenance	5.9	1.5	0.0
Vacation	0.0	5.6	0.0

See AOP Summary Document for road use level definitions.

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

None.

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

Surveys for Spotted Owls have been conducted, as outlined in the LRP, and no spotted owls have been detected in or near the sale area. The forest was surveyed for owls in 2005. No owls were detected. The forest will be surveyed again in 2006.

The sale area was checked against district knowledge for any listed plant location. The sale 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 sale area.

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

None. The entire sale area is under 20% slope.

**X. RECREATION RESOURCES:**

Hunting and mushroom picking are the only known recreational uses of the sale area.

**XI. CULTURAL RESOURCES:**

There are no known cultural resources in the sale area.

**XII. SCENIC RESOURCES:**

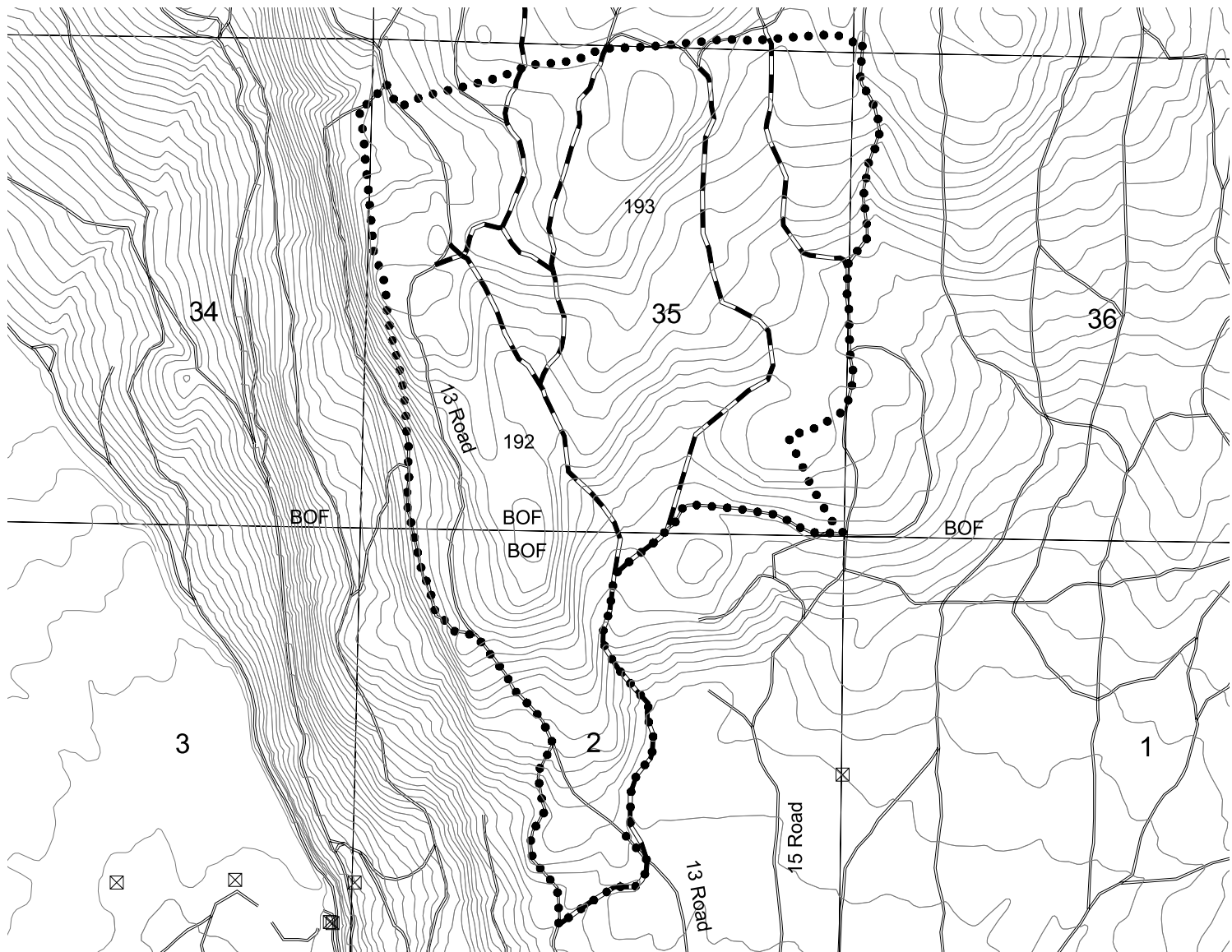
There are no visual concerns associated with the sale area.

**XIII. OTHER RESOURCE CONSIDERATIONS:**

None

**XIV. LAND MANAGEMENT CLASSIFICATION SUMMARY**

The sale area is classified as General Stewardship.



### Legend

- Timber Sale Boundary
- Existing Roads
- ▬▬▬▬▬ Road Construction
- ▬▬▬▬ Road Improvement
- ⊠ Survey Corner



FY07 AOP  
 Klamath-Lake District  
 Sick Puppy Timber Sale  
 T.32S.,R.7.5E.,Sec. 34,35,36, W.M.  
 T.33S.,R.7.5E.,Sec. 2, W.M.  
 Klamath County, Oregon  
 Approximately 730 Acres  
 Attachment A



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