

Pre-Operations Report

Operation Name: Piledup Marlow No. 2

County: Coos

Management Basin: 10

Table 1. Operation Areas, Types and Acres

Area	Type of Operation	Gross Acres	Net Acres
1	Clearcut	101	92

I. PHYSICAL DESCRIPTION OF OPERATION AREA:

This operation is a one-unit timber sale totaling 92 net acres. This timber sale is located on the western slope of the Coast Range in the Marlow Creek watershed within Elliott State Forest Management Basins 10. This timber sale area is in close proximity to the Pacific Ocean, which has a dominant influence on the climate. The average annual rainfall is between 75-80 inches. Temperatures range from 20-95 degrees Fahrenheit throughout the year. This timber sale has an elevation of 700 to 1500 feet above sea level with slopes ranging from 60 percent to over 80 percent. The dominant aspect of the sale area is southeast with some southwest and westerly faces. Eocene sedimentary rocks underlie the area. Soil types consist of Preacher-Bohannon loams with some Milbury-Bohannon-Umpcoos association.

II. CURRENT STAND CONDITION:

The timber sale is third growth Douglas-fir that originated from logging which occurred in the 1930's, 1950's and 1960's. It is primarily composed of 70 to 79 year-old Douglas-fir with a significant component of red alder, bigleaf maple and scattered understory hemlock trees, and approximately 26 acres of 40 to 56 year-old mixed Douglas-fir and western hemlock. Table 2 contains stocking, size and age information for all the areas in this timber sale. There are few hard snags in the stand.

Table 2. Stand Inventory Information

Area	Prescription	Veg Code ¹	Species	Age in 2006	DBH	BA	TPA	SDI	Acres ²
1	CC	1714	DF, WH	56	18	147	86	36	11
1	CC	1716	DF, WH	40	14	131	129	35	15
1	CC	1741	DF, RA, BM, RC	70	14	174	155	46	50
1	CC	1742	RA, DF, BM	79	17	212	138	53	16
1	Target ³	1714, 1716, 1741, 1742	DF, WH, BM, RC		16	8	3	1	92

1. The source of stand inventory information is (SLIP) from 2006 records.

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

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

III. DESIRED FUTURE CONDITION:

The desired condition is a young age class stand to provide early successional habitat in accordance with the Balanced Landscape strategy of the Elliott State Forest Management Plan. It will be composed of mainly Douglas-fir with a smaller component of other conifer species including hemlock and red cedar. Red alder and bigleaf maple will also naturally regenerate in the stand. Green trees retained from the previous rotation will provide for multi-story stand structures valuable for wildlife. This mix of planted and natural regeneration will comprise the next planned rotation.

Table 3. Stand Structure Information (Does not apply Elliott State Forest)¹

IV. PROPOSED MANAGEMENT PRESCRIPTION:

The prescription for this sale is to harvest most of the overstory, leaving standing trees within buffer areas and scattered in selected locations in or along the edge of the sale unit.

Site Preparation and Planting - Site preparation will be achieved by yarding disturbance and treating residual brush with herbicide prior to planting. The site will be planted with conifer seedlings at approximately 400-500 trees per acre.

Green Tree Retention - A minimum of about 282 trees (about 3 per acre) will be left in or adjacent to the sale area. Emphasis will be given to retention of conifer species other than Douglas-fir. Some of these trees will be topped and/or girdled for snag creation. Single green trees will not be left unless localized soil conditions provide for wind firmness and logging conditions are suitable. The location of retained trees will be determined during the sale prep process. Emphasis may be given to widening riparian management areas.

Snag Retention and Creation - Existing snags within the sale area will be left, with the exception of those that endanger work crews. Green trees may be girdled or topped to leave approximately 47 topped trees in the sale area - about one tree per 2 acres harvested. Specific instructions for selecting, girdling, and topping trees will be provided by the Southern Oregon Area Biologist during the timber sale layout process.

Down Log Retention - At least 282 logs (3 logs per acre harvested) will be left in or adjacent to the sale area for habitat purposes in accordance with the Elliott State Forest Management Plan. Down logs shall meet the following minimum specifications: 16 feet in length and 12 inches diameter at the large end.

V. ESTIMATED TIMBER AND REVENUE OUTPUTS:

Table 4. Timber and Revenue

Ownership		Sale Type	
BOF	CSL	Cash	Recovery
86%	14%		X
Planned Quarter:		3	

	Conifer	Hardwood	Total
Net Volume (MBF)	1,960	500	2,460
Stumpage Value (\$/MBF)	450	360	
Estimated Gross Value	882,000	180,000	1,062,000
		Project Costs:	144,000
		Estimated Net Value:	918,000

VI. HARVESTING AND ACCESS CONSIDERATONS:

All legal access to the sale is obtained and there are no property lines needing to be surveyed. One of the objectives of this sale is to construct a tie road connecting the 1100 system to the 1370 system. This new tie road would provide a ridge crest haul route as an alternative to the 1000 road along Marlow Creek. Construction technique for this new road will be full bench with 100 percent end haul to stable locations. Existing access to the sale area is from the 1100 road. The easternmost portion of the sale area can be accessed from the 1376 road. Winter harvesting will require purchaser supplied rock. New spurs and landings may be constructed in the sale area. Final locations will be determined during the sale preparation process. The rocked collector spurs are in good shape and will require only maintenance or minor improvement. The segments of the 1130 and 1376 roads that are within/adjacent to the sale area will be examined to determine if pullback of sidecast is necessary.

The sale area will be cable yarded up hill with a small portion in the center of the sale to be down hill yarded. Full suspension will be required over stream channels and single end suspension on the remainder of the sale area. Trees will be felled parallel or away from the residual trees and Riparian Management Areas.

Table 5. Transportation Management Summary (Miles).

Activity	Mainline	Collector	Rocked Spur	Dirt Spur
Construct	0.0	0.6	0.9	0.0
Improve	0.0	0.8	0.8	0.0
Maintain	0.0	1.0	0.0	0.0
Close/Block	0.0	0.0	0.0	0.0
Vacate	0.0	0.0	0.0	0.0

VII. AQUATIC RESOURCES AND WATER QUALITY:

The sale area is located within the Marlow Creek watershed, a large size Type F tributary of the East Fork Millicoma River. The streams associated with this sale were surveyed to ODFW protocol for fish presence in 1997 and again in 2006. All drainages associated with the sale area were field surveyed during the 2006 summer low flow period to determine the stream channel extent and whether streamflow is perennial or seasonal. The stream flowing out of the southern part of the sale is classified as a small, perennial Type N and transitions into two small, seasonal Type N streams approximately 600 feet upstream from the sale boundary. The stream flowing out of the eastern part of the sale is classified as a small perennial from Marlow Creek to the confluence of a side tributary approximately 150 feet into the sale area. Fish passage on this perennial stream is blocked by a culvert on the 1000 road. One of the objectives of this sale is to replace this culvert thereby opening the lower reach for fish colonization. Therefore the lower reach will receive a Type F stream buffer in anticipation of it supporting fish. The side tributary is classified as a small Type N perennial for approximately 800 feet into the sale area. Further upstream are two small seasonal Type N's exhibiting potential debris flow characteristics. The remainder of the eastern boundary of the sale borders on a small Type N seasonal other tributary.

The proposed tie road connecting the 1100 to the 1370 road will provide an alternative haul route to the 1000 road which is adjacent to Marlow Creek for approximately 5.5 miles. This tie road will provide a ridge top route during periods of high rainfall, keeping traffic off the streamside portion of the 1000 road. Hauling on the 1000 road has been shut down in the past to prevent turbidity in the creek and has been identified in the Elliott State Forest Watershed Analysis as an area of particular concern.

There are no known water rights within or downstream of the proposed operation.

VIII. WILDLIFE AND T&E SPECIES CONSIDERATIONS:

The older habitat within this sale area may be suitable for certain T and E species. This sale is planned under the standards of the Elliott State Forest Management and Habitat Conservation Plans and other Oregon Department of Forestry (ODF) policy. The specific measures are as follows:

NSO Habitat Retention:

Basin 10 - There is no minimum acreage for NSO nesting, roosting, and foraging habitat in this basin above the required reserve acres. Reserve acres in this

basin include 1,805 acres (36%) that will be continually retained in riparian management areas, habitat conservation areas and other conservancy acres. Fifty percent of this basin (2465 acres) must provide dispersal habitat. After this sale plan, there will be about 3673 acres of dispersal habitat retained which includes 82 acres of in-growth in 2006 and 45 acres of in-growth in 2007.

Marbled Murrelet – The sale was surveyed according to protocol standards during the 2006 survey season, and will receive second year surveys in 2007. Portions of the sale are within 330 feet of the Marlow Lockhart Marbled Murrelet Management Area and will require seasonal restrictions.

Bald Eagle, Other - There are no known bald eagle nest sites or other listed animal species in the vicinity of this sale.

Salmon and Steelhead – Approximately 150 feet of the eastern boundary is within 100 feet above a Type F stream. This sale has been selected as a fish log stockpile replenishment source. Log specifications will be provided by the Area Biologist.

Plants - 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.

Fragmentation - The sale area is located on the edge of a mature block and contains both mature and intermediate stands. It bisects contiguous forest cover north to south. The area was chosen because alternative choices in this basin were adjacent to Marbled Murrelet Management Areas, HCA's, or had data indicating the potential presence of marbled murrelets.

IX. SLOPE STABILITY AND GEOTECHNICAL ISSUES:

This sale area has had an office and initial field review by an ODF geo-tech specialist. A closer examination will be made during the sale layout process to determine if other site specific protection measures will be necessary. Streams draining the south portion of the unit appear to have deliverability to the mainstem of Marlow Creek, however the 1000 road will likely intercept most of the debris flow material of all but the largest debris flows. Debris flows originating in the north portion of the unit may deposit at the sharp channel junctions with Marlow tributary, however they are likely to deliver large wood to the fish bearing tributary.

To minimize yarding impacts on the slopes, single end suspension cable yarding will be required. Roads will be located on ridge-crests as much as possible and any steep sidehill portions will be constructed with full bench end-haul design and construction. Construction will be done during the dry season.

X. RECREATION RESOURCES:

The most common recreation for this area is hunting and dispersed undeveloped recreation. Harvesting of these units will provide forage area to help promote healthy deer and elk populations. In addition, areas of bare soil around road edges and landings will be grass seeded after logging to provide forage. Surrounding forest types provide escape cover. No conflict is seen with respect to the undeveloped, dispersed recreation usage of the forest.

XI. CULTURAL RESOURCES:

There are no cultural sites associated with this sale.

XII. SCENIC RESOURCES:

The units are not within any scenic management areas.

XIII. OTHER RESOURCE CONSIDERATIONS:

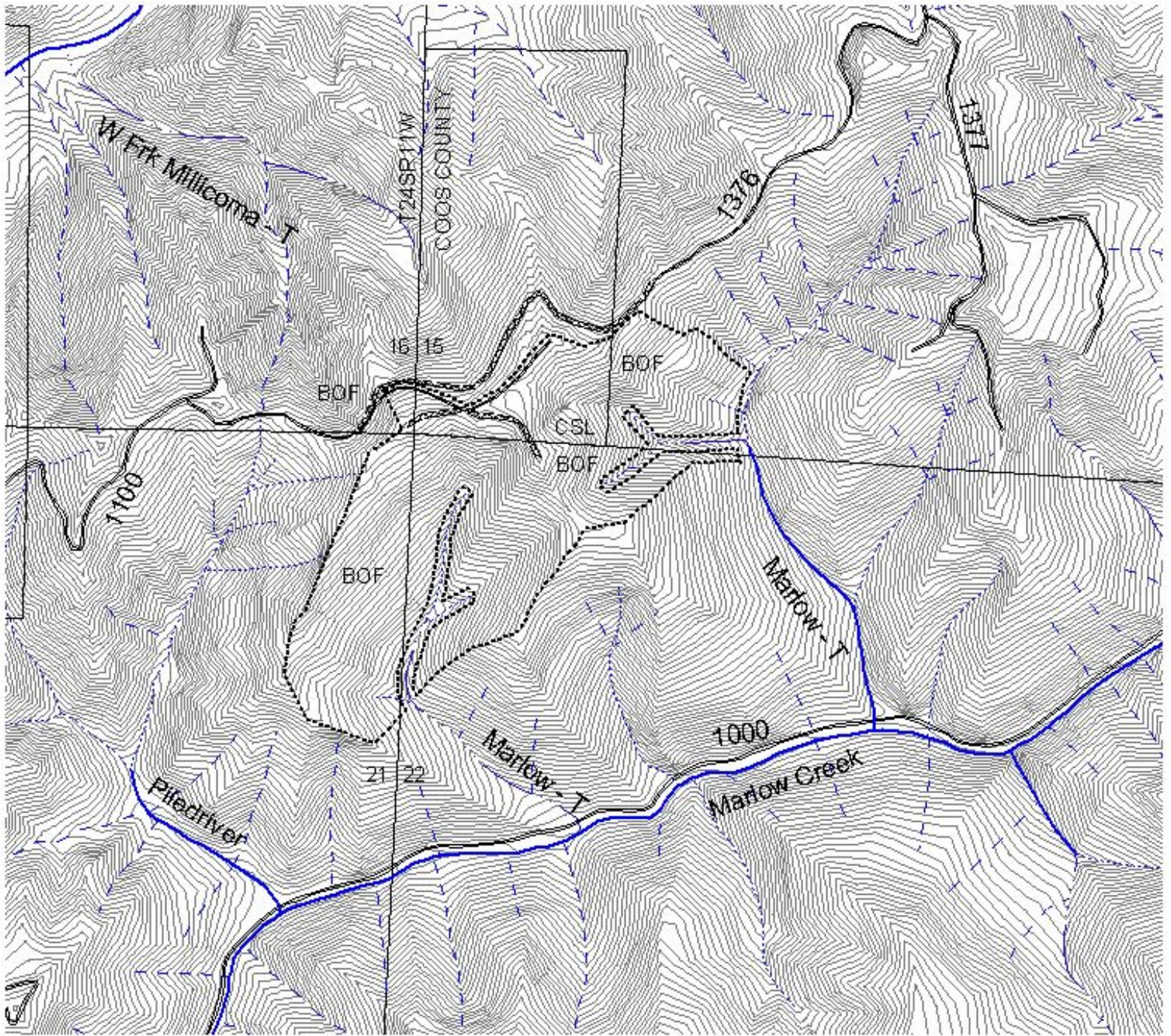
There are no other known resource considerations associated with this sale.

XIV. LAND MANAGEMENT CLASSIFICATION SUMMARY:

Table 6. Land Use Classification Summary

Area	Production
1	92

This table summarizes the acres in each land use class within the operation.



PILEDUP MARLOW NO. 2
TIMBER SALE
 -- Topography --
 FY 08 Plan
 Coos District

Portions of Sections
 15, 16, 21, and 22
 T24S, R11W, W.M.
 Coos County, Oregon

Sale Area	Harvest Type	Net Acre
	clearcut	92
Total		92

Coos District GIS
 11/27/06

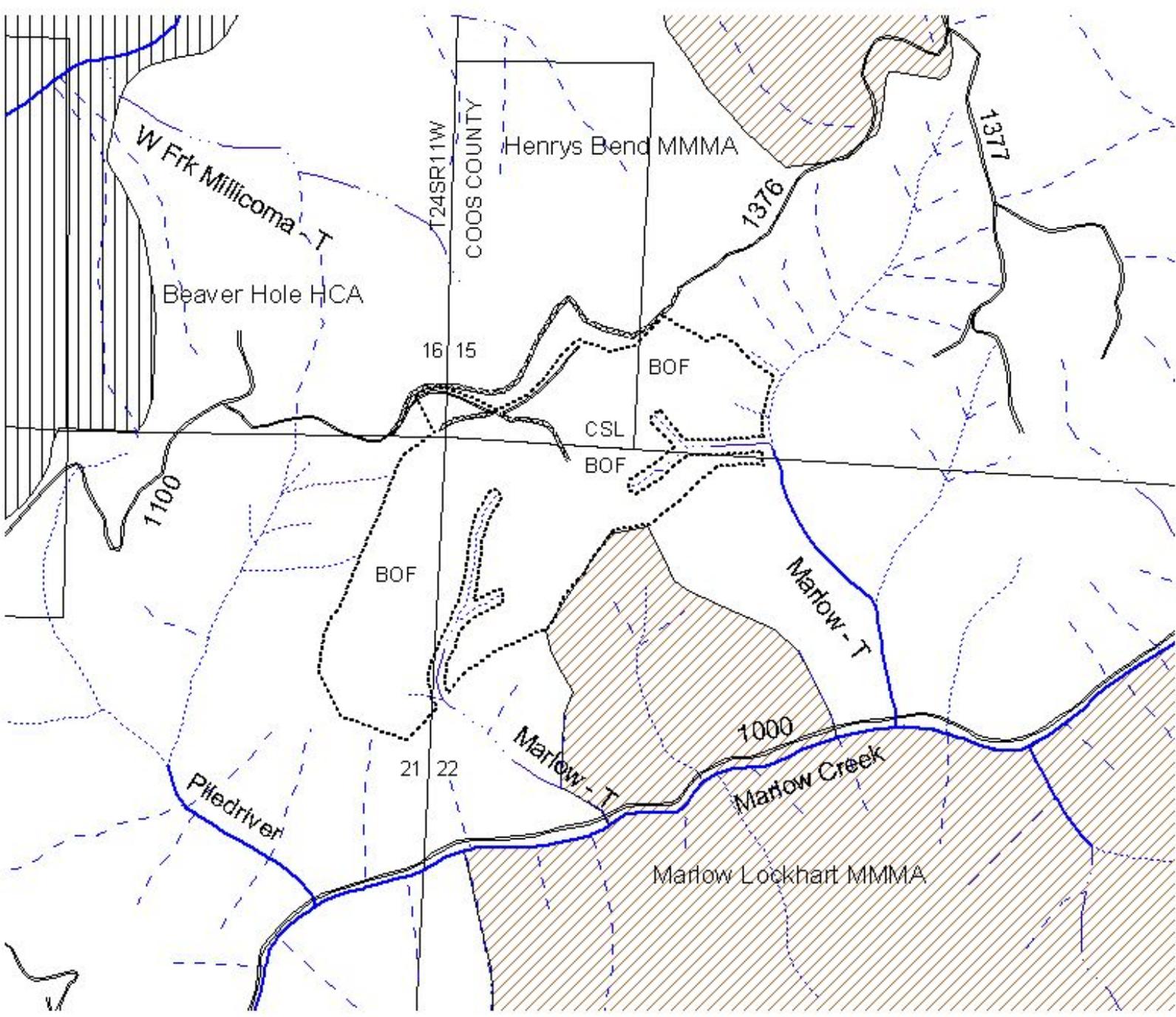
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- Timber Sale Boundary
- Type F Streams
- Type N Perennial Streams
- Type N Seasonal Streams
- Unclassified Streams
- Existing Roads
- New Construction
- Road Improvement
- Ownership
- Section Lines
- 20 Foot Contours



1000 0 1000 Feet

1" = 1000'



- Timber Sale Boundary
- Type F streams
- Type N Perennial streams
- Type N Seasonal Streams
- Unclassified Streams
- Existing Roads
- New Construction
- Road Improvement
- Ownership
- Section Lines
- Habitat Conservation Area
- Marbled Murrelet Management Area

**PILEDUP MARLOW NO. 2
TIMBER SALE
-- Key Resources --
FY 08 Plan
Coos District**

Portions of Sections
15, 16, 21, and 22
T24S, R11W, W.M.
Coos County, Oregon



1" = 1000'

Sale Area	Harvest Type	Net Acres
	clearcut	92
Total		92

Coos District GIS
11/27/06

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