

Pre-Operations Report

Operation Name: Millicoma Cougar

County: Coos

Management Basin: 14

Table 1. Operation Areas, Types and Acres

Area	Type of Operation	Gross Acres	Net Acres
1	Clearcut	112	90
Total		112	90

I. PHYSICAL DESCRIPTION OF OPERATION AREA:

This timber sale is located on the western slope of the Coast Range within the West Fork of the Millicoma watershed, and is within the Elliott State Forest, Management Basin 14. The timber sale area is in general proximity to the Pacific Ocean, which has a dominant influence on the climate. The average annual rainfall is between 95-105 inches. Temperatures range from 32 to 76 degrees Fahrenheit throughout the year. This timber sale has an elevation of 1000 - 1800 feet above sea level with slopes from less than 10% to over 90%. The dominant aspect is southwest to southeast. Eocene age sedimentary rocks underlie the area. Soils in the sale area are mapped as Millicoma-Templeton complex and Preacher-Bohannon loam.

II. CURRENT STAND CONDITION:

The timber sale is 83 to 146 year old second growth Douglas-fir with a minor component of red alder and scattered understory western hemlock and western red cedar trees. There are few hard snags in the stand.

Table 2. Stand Inventory Information

Area	Prescription	Stand ID ¹	Species	Age In 2007	DBH	BA	TPA	RD	Acres ²
1	CC	711	DF,WH	146	26	215	66	46	11
1	CC	712	DF,WH	136	19	225	143	56	05
1	CC	713	DF,WH	83	24	245	135	62	31
1	CC	714	DF,WH	117	29	296	128	68	43
1	TARGET ³	/	DF,WH,WRC	122	23	10	3	1	90

1. The source of stand inventory information is (ROOTS) from current 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 RD) after harvesting has been completed.

III. DESIRED STAND 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 western hemlock and western red cedar. Red alder 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 to Elliott State Forest)

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 500 trees per acre. .

Green Tree Retention - A minimum of 270 trees (about 3 per acre harvested, including snag recruitment) will be left in or adjacent to the sale area. Emphasis will be given to retention of conifer species other than Douglas-fir. 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. Approximately 51 green trees, (about 1 tree per 2 acres harvested) will be girdled within the sale area. Specific instructions for selecting and girdling trees will be provided by the Southern Oregon Area Biologist during the timber sale layout process.

Down Log Retention - At least 270 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. Down logs shall be left in stable locations to minimize safety concerns to tree planters

and other forest workers.

V. ESTIMATED TIMBER AND REVENUE INFORMATION:

Table 4. Timber and Revenue

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

	Conifer	Hardwood	Total
Net Volume (MBF)	4500	10	6,745
Stumpage Value (\$/MBF)	\$400	\$400	
Estimated Gross Value	\$1,800,000	\$4,000	\$1,804,000
	Project Costs:		\$72,000
	Estimated Net Value:		\$1,732,000

VI. TRANSPORTATION PLANNING AND HARVESTING:

All legal access to the sale is obtained and there are no property lines needing to be surveyed. Access is by all weather surfaced state maintained roads. The 8000 and 7600 roads are classified as collectors while the 7610 road is classified as a dirt spur. The 7610 road is currently blocked and will need to be improved before the sale area can be accessed.

3 short spurs (less than 1,000 feet each) will be constructed along the 7610 road in order to obtain the best suspension required for uphill skyline logging with single end and full log suspension. Spurs will be constructed to the minimum standard of 14 feet with no ditch unless winter work will be planned. A 1000 cubic yard stockpile project will be included in this sale. Final stockpile location will be determined during the timber sale preparation process. If Purchaser plans winter harvesting work, purchaser may be required to upgrade surface and drainage. Upgrades may include ditches, cross drains and rock. After log hauling each year, the 7610 road will be water-barred and blocked. The sale area will be cable yarded uphill and downhill with portions of the sale accommodating ground-based equipment.

Table 5. Transportation Management Summary (Miles).

Activity	Mainline	Collector	Rocked Spur	Dirt Spur
Construct	0	0	0	0.4
Improve	0	0	0	0.6
Maintain	.7	.3	0	1.1
Close/Block	0	0	0	1.1
Vacate	0	0	0	0

VII. AQUATIC RESOURCES AND WATER QUALITY:

The sale area is located within the West Fork Millicoma watershed, which is a large perennial fish bearing tributary of the Coos River. Streams associated with this sale will be surveyed to protocol for fish presence in 2008. All drainages associated with the sale area will be field surveyed during the 2008 summer flow period to determine the stream channel extent and whether streamflow is perennial or seasonal.

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 – Reserve acres in this basin include 1,479 acres (29%) that will be continually retained in riparian management areas, habitat conservation areas and other conservancy areas. Basin 14 has a 135 year target harvest age and a requirement to retain, roosting, and foraging habitat. After this planned harvest, there will be 2140 acres retained. Fifty percent of the basin (2537 acres) must provide dispersal habitat. After this sale plan, there will be about 2651 acres of dispersal habitat retained which includes 113 acres of in-growth in 2009.

Marbled Murrelet – The sale was surveyed according to protocol standards during the 2007 survey season, and will receive second year surveys in 2008. No portions of this timber sale are within one quarter mile of a marbled murrelet management area.

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

Salmon and Steelhead – The sale Area is within 100 feet above two Type F streams. Opportunities for placement of large wood have been identified if and

when cable layouts cross Cougar Creek. These placed log structures will create gravel beds and pools improving spawning and wintering habitat. Locations and quantities of large wood placement will be identified during the sale preparation process with the Area Biologist. This sale will provide replenishment of the fish habitat log stockpile. The number of logs and dimensions will be identified with the Area Biologist during the sale preparation process.

Plants - No listed plant records were identified within the sale area.

Fragmentation – The sale area bisects contiguous forest cover north to south. The area was chosen because alternate 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 has had a map review by an ODF geotechnical specialist. A closer examination will be made during the sale layout process to determine if additional geotechnical review is needed. Generally most of the unit does not meet criteria for classification as high landslide hazard locations (uniform slopes greater than 75% and/or planform concave slopes greater than 65%). The steep NE facing slope above the unnamed tributary to Cougar Creek, and the steep SW facing slope above the 8000 road adjacent to the WF Millicoma appear to meet criteria. It is currently unknown if the Cougar tributary is fish bearing. A debris flow originating from within the unit from the slope below the 7610 road has a high likelihood of delivery to the tributary. Debris torrent travel down the tributary with deposition in Cougar Creek is possible. Moderate to large debris flows originating from within the unit on the SW facing slope above the West Fork have a high likelihood of delivery of some material to the West Fork, however the 8000 road is likely to intercept some material.

X. RECREATION RESOURCES:

The most common recreation for this area is hunting and dispersed undeveloped recreation. Harvesting this unit 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 in the forest.

XI. CULTURAL RESOURCES:

There are no cultural sites associated with this sale.

XII. SCENIC RESOURCES:

A portion of this sale is within a scenic production management area. The scenic values arise from the proximity to the West Fork Millicoma River. These scenic concerns will be mitigated through strategically placed green tree retention.

XIII. OTHER RESOURCE CONSIDERATIONS:

None

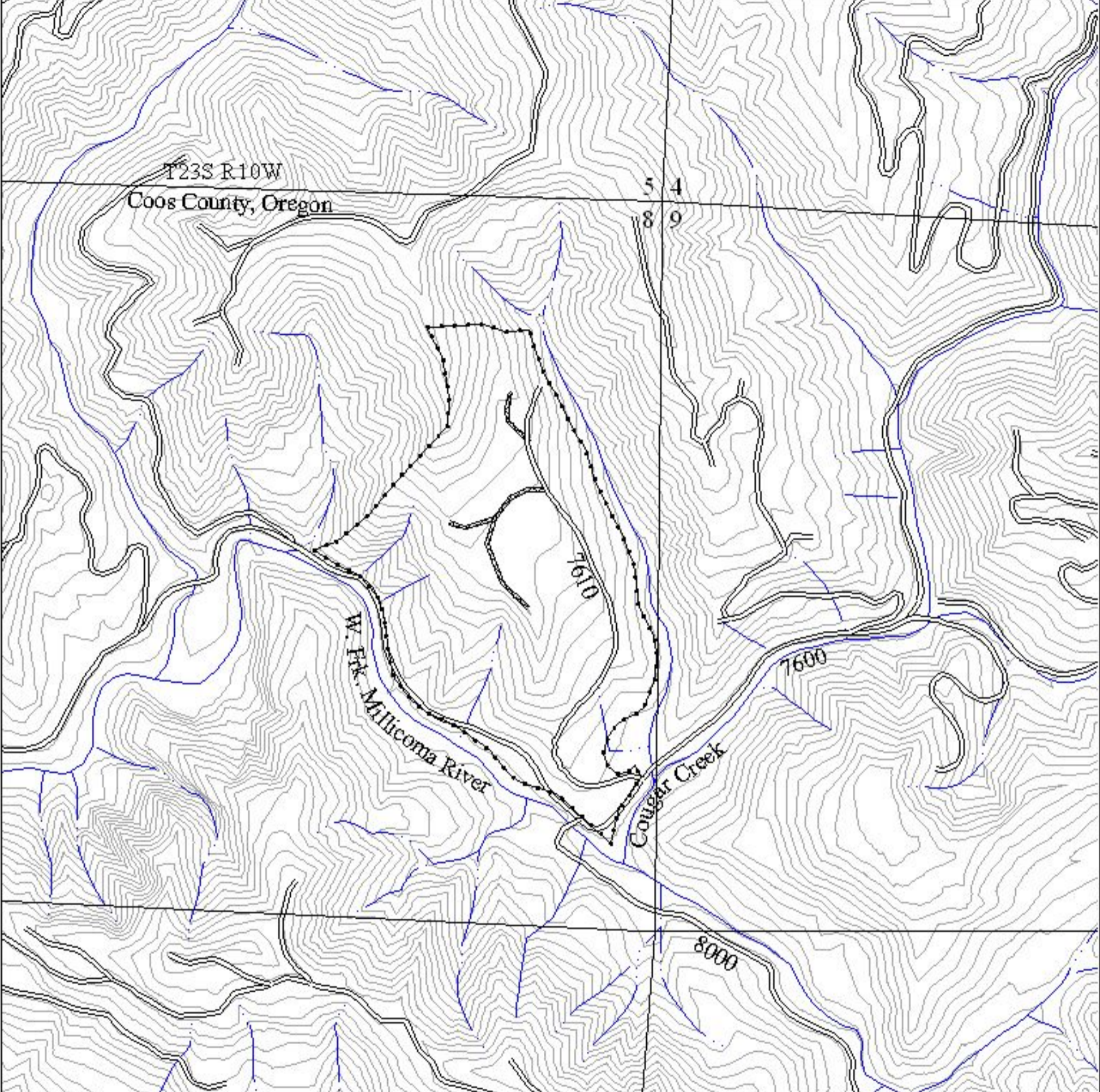
XIV. LAND MANAGEMENT CLASSIFICATION SUMMARY:

The timber sale contains an area classified as a rock outcrop. The size and exact location of the outcrop will be determined during sale layout. The timber located within the rock outcrops will be excluded from harvest and will not count towards net acreage.

Table 6. Land Use Classification Summary

Area	Production	Noncommercial Rocky	Scenic Production
1	40	6	44

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



Millicoma Cougar Timber Sale

-- Exhibit 'A' Topography --
 FY 2009 Sale Plan
 Coos District

Portions of Section 8, T23S, R10W, W.M.
 Coos County, Oregon

Sale Area	Harvets Type	Net Acres
1	CC	90
Total	n	90



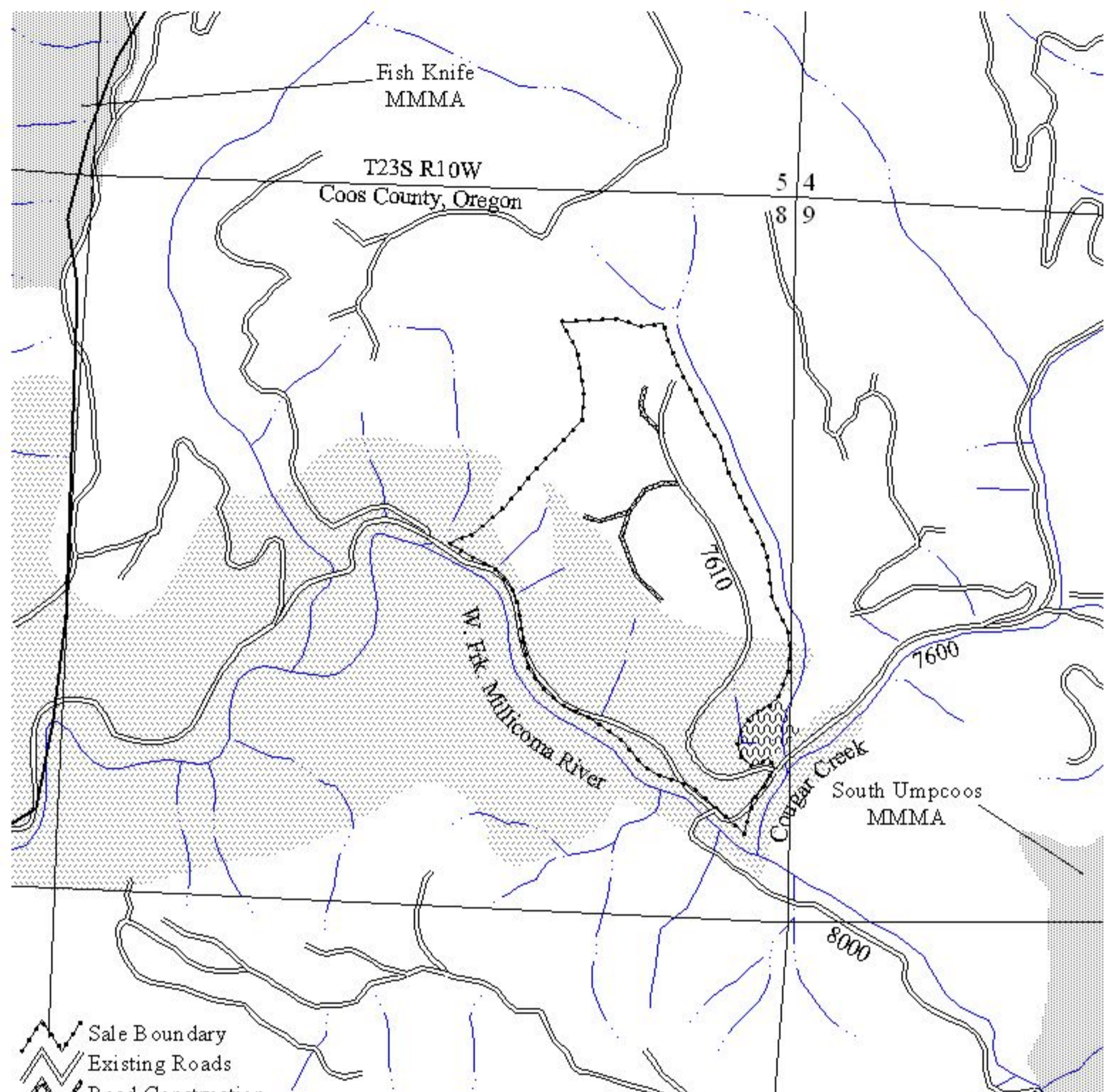
Coos District GIS
 08/14/2007

- Sale Boundary
- Existing Roads
- Road Construction
- 40 Foot Contours
- Section Lines

- Streams
- Fish Bearing
 - Non-Fish Bearing



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- Sale Boundary
- Existing Roads
- Road Construction
- 40 Foot Contours
- Section Lines
- Basin 14 Boundary

- STREAMS**
- Fish Bearing
 - Non-Fish Bearing

- RESOURCES**
- Marbled Murrelet Management Area
 - Scenic Production
 - Forest Park

Millicoma Cougar Timber Sale
 -- Exhibit 'C' Key Resources --
 FY 2009 Sale Plan
 Coos District

Portions of Section 8, T23S, R10W, W.M.
 Coos County, Oregon

Sale Area	Harvets Type	Net Acres
1	CC	90
Total	n	90



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