

# Pre-Operations Report

**Operation Name: South Kelly Ridge**  
**County: Coos**  
**Management Basin: 13, 14**

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

Area	Type of Operation	Gross Acres	Net Acres
1	Clearcut	115	100
Total		115	100

## **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 Basins 13 and 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 920 – 1,560 feet above sea level with slopes from less than 20% to over 80%. The dominant aspects are east and west. Eocene age sedimentary rocks underlie the area. Generally, the unit is bisected by a main ridge that runs north and south through the center of the sale area. Soils in the sale area are mapped as Milbury-Bohannon-Umpcoos association.

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

The timber sale is 100 to 112 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 <sup>1</sup>	Species	Age In 2007	DBH	BA	TPA	RD	Acres <sup>2</sup>
1	CC	697	DF,WH	100	20	272	138	64	42
1	CC	699	DF,WH	107	26	268	85	58	16
1	CC	814	DF,WH	112	21	216	97	49	42
1	TARGET <sup>3</sup>	/	DF,WH,WRC	105	22	10	3-5	1	100

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:**

This sale will be prepared under the wildlife emphasis option of the Elliott management plan, providing for additional green trees, down logs, and snag creation to create and maintain forest structure for wildlife habitat. 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 which may include 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. This sale will be planned with the Wildlife Emphasis Option.

Site Preparation and Planning - Site preparation will be achieved by yarding disturbance and treating residual brush with herbicide prior to planting. This wildlife emphasis sale may have small locations of green tree retention not conducive to aerial herbicide treatment. Ground based application may be necessary. The site will be planted with conifer seedlings at approximately 400-500 trees per acre. .

Green Tree Retention - At least 500 trees (about 5 per acre harvested) will be left in or adjacent to the timber sale. Emphasis will be given to retention of conifer species other than Douglas-fir. Some of these trees will be topped 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. Green trees may be clumped and/or scattered as allowed by topography and operational concerns and be determined with guidance from the Southern Oregon Area Biologist. 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 will receive a combination of topping and girdling to leave approximately 200 topped/girdled trees (about two trees per acre 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 500 logs (about 5 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.

Burning - No broadcast burning is planned within this unit due to the scattered green tree retention.

**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)	5,650	161	5,811
Stumpage Value (\$/MBF)	\$400	\$400	
Estimated Gross Value	\$2,260,000	\$64,400	\$2,324,400
		Project Costs:	\$61,000
		Estimated Net Value:	\$2,263,400

**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 7650 roads are classified as collectors while the 7665 is classified as a dirt spur. The 7665 is currently blocked and will need to be re-opened and improved before that portion of the sale area can be accessed.

1 short spur road (less than 1,000 feet) may be constructed along the 7650 road in order to obtain the best suspension required for uphill skyline logging with single end and full log suspension. The spur 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 dirt spurs will be water-barred and blocked. The sale area will be cable yarded uphill and downhill.

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

Activity	Mainline	Collector	Rocked Spur	Dirt Spur
Construct	0	0	0	0.1
Improve	0	0	0	0.1
Maintain	0.7	0.3	0	1.8
Close/Block	0	0	0	0.2
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. All streams associated with this sale were surveyed to ODFW protocol for fish presence in 1997. All drainages associated with the sale were field surveyed during the 2007 summer low flow period to determine the stream channel extent and whether streamflow is perennial or seasonal. Kelly Creek, a medium Type F perennial stream lies to the east of the timber sale. Two small perennial Type N streams drain into Fish Creek. A short perennial N stream drains into Kelly Creek. The remaining drainages in the sale area are classified as small seasonal Type N debris flow track reaches.

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 13 - 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 2192 acres (37%) that are being retained in habitat conservation areas, riparian management areas, and other reserve areas. Fifty percent of the basin (2984 acres) must provide dispersal habitat. After this sale plan, there will be about 3890 acres of dispersal habitat retained.

Basin 14 - The minimum acreage of nesting, roosting, and foraging (NRF) habitat in this basin is 2030 acres. Reserve acres in this basin include 1609 acres (32%) that are being retained in riparian management areas, habitat conservation acres and other conservancy acres. After this sale plan, there will be 2140 acres of NRF habitat retained, including in-growth. Fifty percent of the basin (2537 acres) must provide dispersal habitat. After this sale plan, there will

be 2651 acres of dispersal habitat retained which includes 113 acres of in-growth in 2009.

Marbled Murrelet –The sale area was surveyed according to protocol standards during the 2007 survey season and will receive second year surveys in 2008. Portions of the sale are within 330 feet of the Fish Knife Marbled Murrelet Management Area and will require seasonal restrictions. The haul route on the 7650 road coincides with the MMMA boundary for about 700 feet, is inside the MMMA for another 700 feet, and then runs outside the MMMA but within 330 feet of it for about 1700 feet. The 7650 is not a “commonly used road” so the SOA biologist will need to advise if there is likely nesting habitat within 330 feet and if seasonal restrictions on this haul route are necessary. An unrestricted haul route is available south on the 7650 to the 8000 road.

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 of two Type F streams. Opportunities for placement of large wood have been identified where cable layouts cross Kelly 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.

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

Fragmentation - The sale area is located on the edge of a mature block. It 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, the slopes on the lower 1/3<sup>rd</sup> of the unit appear to meet criteria for classification high landslide hazard locations (uniform slopes greater than 75% and/or planform concave slopes greater than 65%). There is an area of steep ground between the two roads in the approximate center of the unit. Debris flows originating on the east facing slope above Type F Kelly Creek are likely to deliver. Debris flows originating on slopes that face Type F WF Millicoma are unlikely to deliver given the presence of the 8000 road and the gentle topography. Debris flow delivery from the west facing slope above Fish Creek are likely to deliver to Type F Fish Creek. Given the relatively gentle gradients of Kelly and Fish Creeks, debris torrent formation and delivery to the WF are unlikely.

**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:**

The slopes above the West Fork Millicoma are classified as scenic production. Retention trees will be placed as to minimize scenic disturbance.

**XIII. OTHER RESOURCE CONSIDERATIONS:**

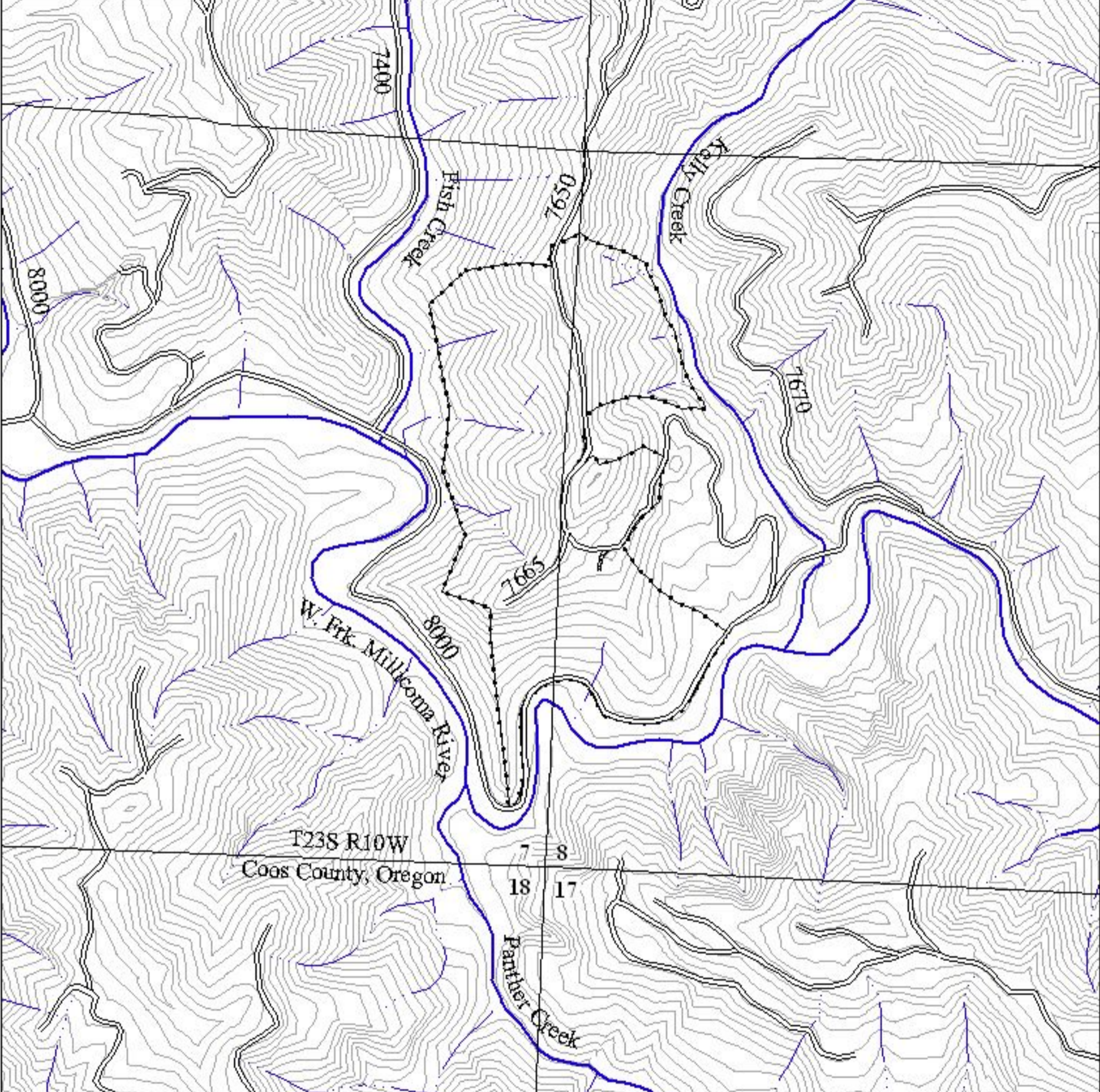
There are no other known resource considerations associated with this sale.

**XIV. LAND MANAGEMENT CLASSIFICATION SUMMARY:**

**Table 6. Land Use Classification Summary**

Area	Production	Scenic Production
1	41	59

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



**SOUTH KELLY RIDGE TIMBER SALE**

**-- EXHIBIT 'A' TOPOGRAPHY --  
 FY 2009 SALE PLAN  
 COOS DISTRICT**

PORTIONS OF SECTIONS 7 & 8,  
 T23S, R10W, W.M.  
 COOS COUNTY, OREGON

Sale Area	Harvest Type	Net Acres
1	CC	100
<b>Total</b>		<b>100</b>

- Sale Boundary
- Existing Roads
- New Road
- Construction
- 40 Foot Contours
- Section Lines
- STREAMS**
- Fish Bearing
- Non-Fish Bearing

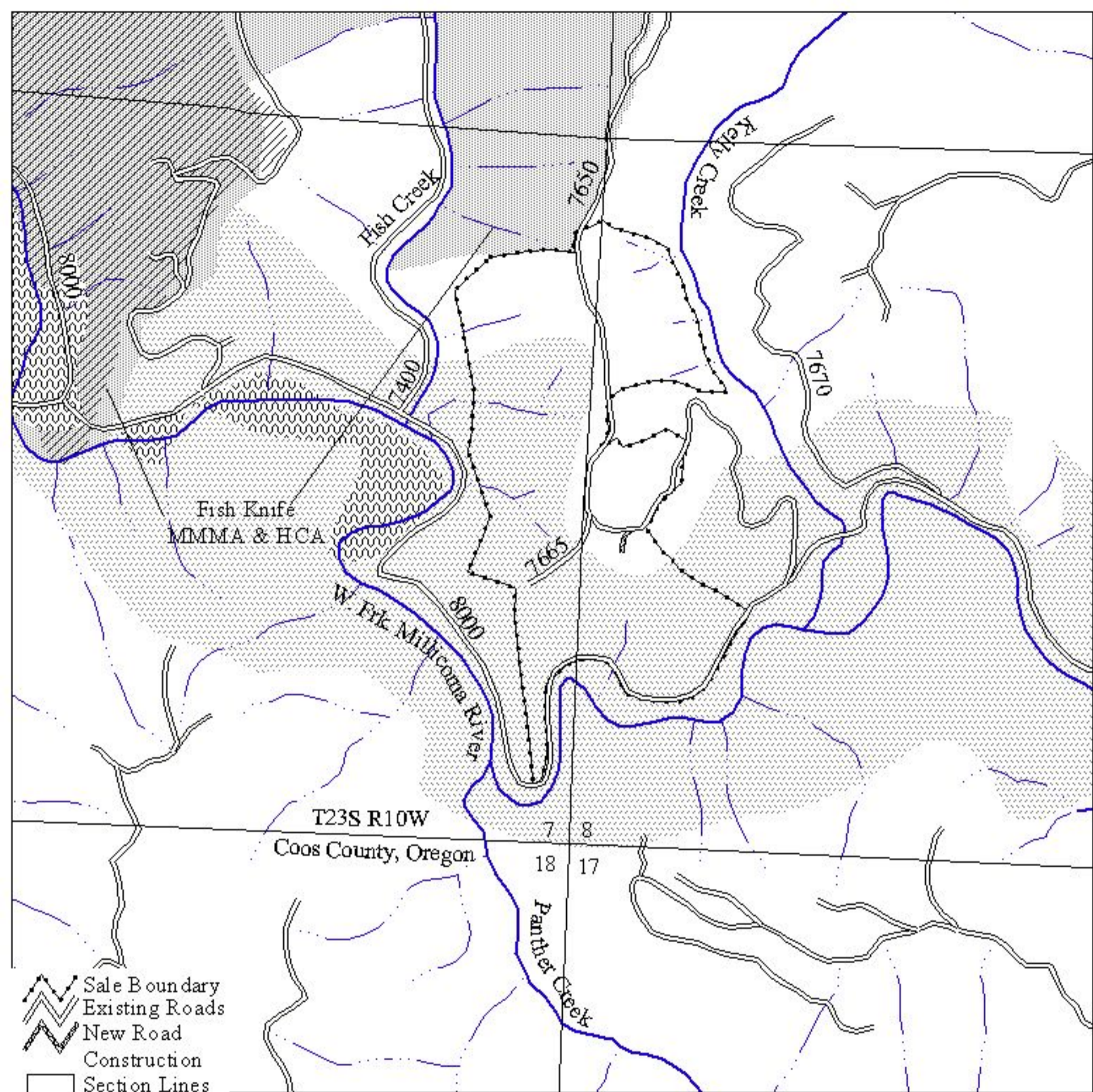


APPROX. SCALE 1" = 1000'



Coos District GIS  
 08/15/2007

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**SOUTH KELLY RIDGE TIMBER SALE**

**-- EXHIBIT 'C' KEY RESOURCES --  
FY 2009 SALE PLAN  
COOS DISTRICT**

Sale Area	Harvest Type	Net Acres
1	CC	100
<b>Total</b>		<b>100</b>

PORTIONS OF SECTIONS 7 & 8,  
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