

Pre-Operations Report

Operation Name: Panther Bowl
County: Coos
Management Basin: 14

Table 1. Operation Area, Type and Acres

| Area | Type of Operation | Gross Acres | Net Acres |
|-------|-------------------|-------------|-----------|
| 1 | Clearcut | 78 | 68 |
| Total | | 78 | 68 |

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 1020 - 1860 feet above sea level with slopes from less than 20% to over 100%. The dominant aspect is west with minor north and south facing aspects within the unit. Eocene age sedimentary rocks underlie the area. Soils in the sale area are mapped as Milbury-Bohannon-Umpcoos association and Preacher-Bohannon loam.

II. CURRENT STAND CONDITION:

The timber sale is made up of 115 to 133 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 | 642 | DF,WH | 115 | 23 | 267 | 74 | 71 | 67 |
| 1 | CC | 683 | DF,WH | 133 | 25 | 246 | 67 | 60 | 01 |
| 1 | TARGET ³ | / | DF,WH,WRC | 115 | 23 | 10 | 3-5 | 1 | 68 |

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 Planning - 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 204 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. Some of these trees will be topped 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. Approximately 40 green trees, (about 1 tree per 2 acres harvested) will be topped within the sale area.

Down Log Retention - At least 204 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) | 3,332 | 72 | 4011 |
| Stumpage Value (\$/MBF) | \$400 | \$400 | |
| Estimated Gross Value | \$1,332,800 | \$28,800 | \$1,304,000 |
| | | Project Costs: | \$72,150 |
| | | Estimated Net Value: | \$1,231,850 |

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 1000 is classified as a mainline and the 8000 and 8800 roads are classified as collectors while the 8810 and the 8820 roads are classified as dirt spurs. The 8810 and 8820 roads are currently blocked and will need some maintenance before the sale area can be accessed.

2 to 3 short spur roads (less than 1,000 feet each) will be constructed along the 8815 and 8820 roads in order to obtain the best suspension required for uphill skyline logging with single end or full log suspension. Spurs will be constructed to the minimum standard of 14 feet with no ditch unless winter work is planned. If Purchaser plans winter harvesting, purchaser may be required to upgrade surface and drainage. Upgrades may include ditches, cross drains and rock. After log hauling each year, the 8810 and 8820 roads will be water-barred and blocked. The sale area will be cable yarded uphill.

Table 5. Transportation Management Summary (Miles).

| Activity | Mainline | Collector | Rocked Spur | Dirt Spur |
|-------------|----------|-----------|-------------|-----------|
| Construct | 0 | 0 | 0 | 0.2 |
| Improve | 0 | 0 | 0 | 0 |
| Maintain | 0.7 | 0.3 | 0 | 1.6 |
| Close/Block | 0 | 0 | 0 | 1.8 |
| 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 fish bearing tributary of the Coos River. Streams associated with this sale were surveyed to ODFW protocol for fish presence in 1997 and 2006. All drainages associated with the sale area were field surveyed during the 2007

summer low flow period to determine the stream channel extent and whether stream flow 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 – There is a minimum acreage for NSO nesting, roosting, and foraging habitat in this basin above the required reserve acres. 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 40% (2030 acres) of the basin in nesting, roosting, and foraging habitat. After this planned harvest, there will be 2140 acres of nesting, roosting and foraging habitat 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 area was surveyed according to protocol standards during the 2006 survey season, this survey resulted in an occupied site to the southwest of the current stand boundary and the creation of the Panther Bench Marbled Murrelet Management Area. The sale boundary was reconfigured and surveys were re-initiated during the 2007 survey season and will receive a second year of surveys in 2008. The sale is within 330 feet of the Panther Bench Marbled Murrelet Management Area. Oregon Department of Forestry's Southern Oregon Area Biologist will determine the application of seasonal restrictions during the sale layout to comply with ODF's policies for the Marbled Murrelet.

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 a Type F stream. Opportunities for placement of large wood have been identified where cable layouts cross Panther 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 contiguous block of mature timber and does not increase fragmentation of interior habitat.

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. There are four small type N streams flowing into Panther Creek from the unit. Slopes meeting criteria for classification as high landslide hazard locations are present above the four tributaries (uniform slopes greater than 75% and/or planform concave slopes greater than 65%). All appear to have geomorphic characteristics conducive to debris flow occurrence and transport. Deposition of potential debris flow material is likely at the confluence of the tributaries and type F Panther Creek.

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:

There are no scenic management constraints for this sale.

XIII. OTHER RESOURCE CONSIDERATIONS:

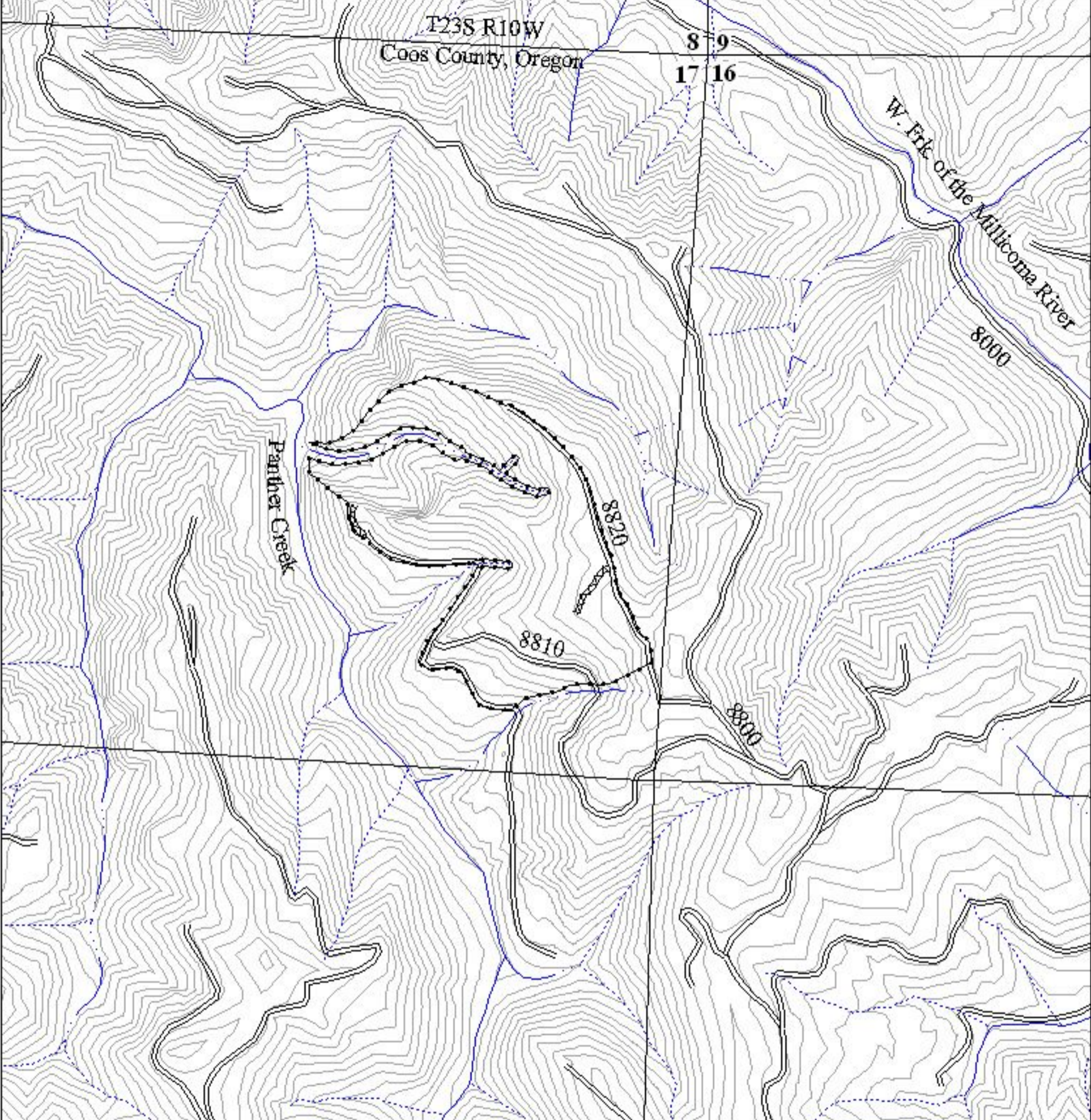
None

XIV. LAND MANAGEMENT CLASSIFICATION SUMMARY:

Table 6. Land Use Classification Summary

| Area | Production |
|------|------------|
| 1 | 68 |

Table 6. Land Use Classification Summary



- Sale Boundary
- Roads
- Road Construction
- 20 Foot Contours
- Section Line
- STREAMS**
- Type F Perennial
- Type N Perennial
- Type N Seasonal

PANTHER BOWL TIMBER SALE
-- EXHIBIT 'A' TOPOGRAPHY --
FY 2009 SALE PLAN
COOS DISTRICT

PORTIONS OF SECTION 17, T23S, R10W, W.M.
 COOS COUNTY, OREGON

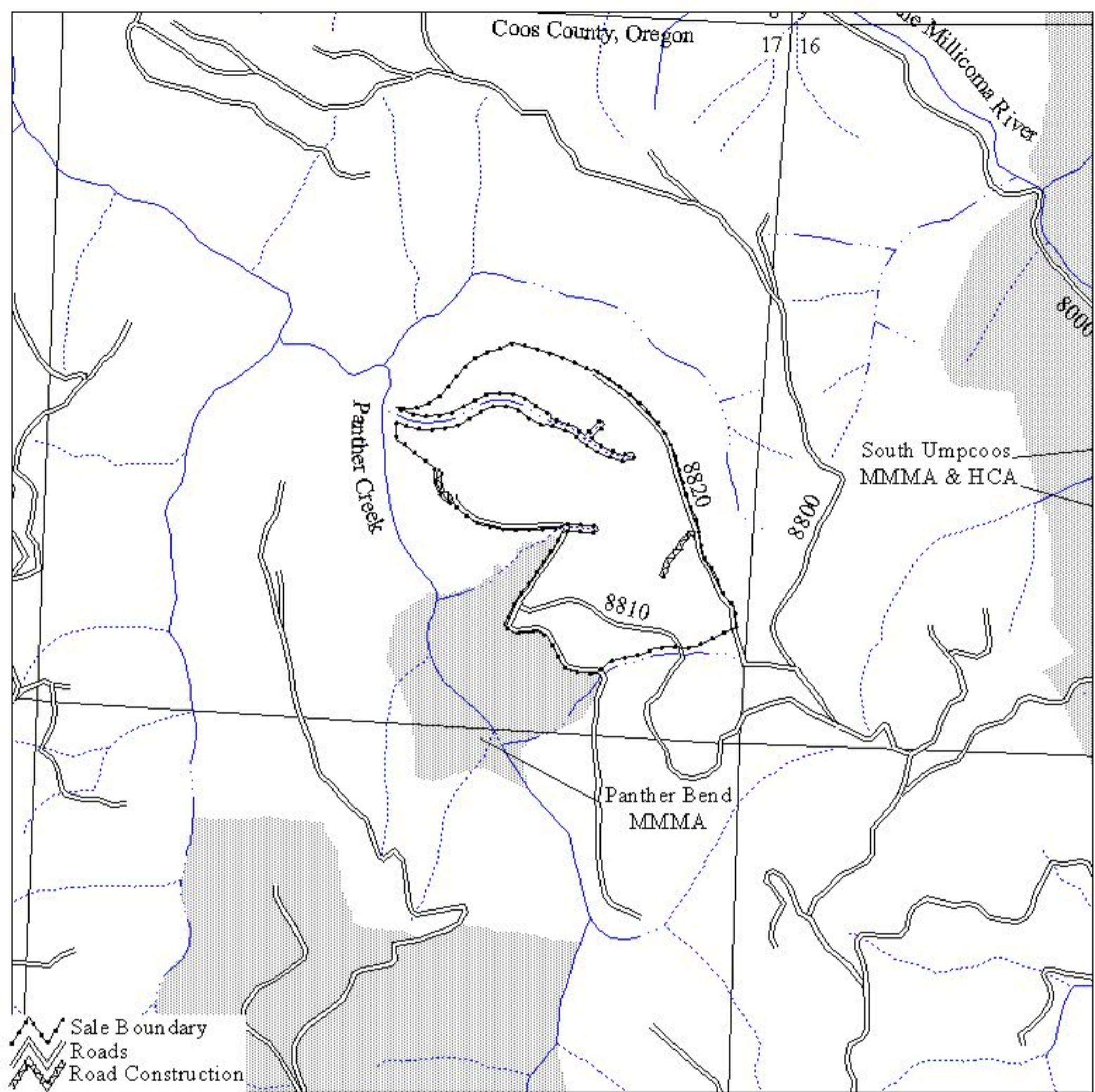


| Sale Area | Harvest Type | Net Acres |
|--------------|--------------|-----------|
| 1 | CC | 68 |
| Total | | 68 |



Coos District GIS
 08/14/2007

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PANTHER BOWL TIMBER SALE

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

| Sale Area | Harvest Type | Net Acres |
|--------------|--------------|-----------|
| 1 | CC | 68 |
| Total | | 68 |

- Section Lines
- STREAMS**
- Type F Perennial
- Type N Perennial
- Type N Seasonal
- RESOURCES**
- Habitat Conservation Area
- Marbled Murrelet Management Area
- Non-Commercial Production
- Scenic Production

PORTIONS OF SECTION 17, T23S, R10W, W.M.
 COOS COUNTY, OREGON



APPROX. SCALE 1" = 1000'



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