

Pre-Operations Report

Operation Name: Howell About Combo

County: Coos/Douglas

Management Basins: 1, 2, 6, 12, 13, 16

Table 1. Operation Areas, Types and Acres

Area	Type of Operation	Gross Acres	Net Acres
1	Partial Cut	40	36
2	Clearcut	24	22
3	Partial Cut	132	106
4	Clearcut	15	13
5	Clearcut	22	18
6	Clearcut	33	29
7	Partial Cut	66	45
8	Partial Cut	81	65
9	Partial Cut	96	80
10	Partial Cut	14	12
11	Partial Cut	14	10
Total	Partial Cut	443	354
Total	Clearcut	94	82
Total	Combined	537	436

I. PHYSICAL DESCRIPTION OF OPERATION AREA:

This operation is an 11 unit timber sale totaling 354 net acres of partial cut and 82 net acres of clearcut. The timber sale is located on the western slope of the Coast Range in the West Fork Millicoma River and Glenn Creek watersheds predominately within Elliott State Forest Management Basins 12, 13, and 16. Small portions of two thinning units lay in Basins 1, 2, and 6. 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 and 80 inches in the Glenn Creek Watershed and between 80 and 85 inches in the West Fork Millicoma River Watershed. Temperatures range from 32-76 degrees Fahrenheit throughout the year. This timber sale has elevations from 500 to 2000 feet above sea level with slopes ranging from 10 percent to over 60 percent. Areas 1, 2, 6, 8, 9, and 11, have a southerly aspect, Area 3, 5, and 7 have an easterly aspect, and Area 4 has a westerly aspect. The soils are categorized as Preacher-Bohannon loams with some Milbury-Bohannon-Umpcoos Association.

II. CURRENT STAND CONDITION:

The units are young third growth Douglas-fir planted after clearcut harvest activities in the 1960's and 1970's. They are composed of 28 to 41 year-old Douglas-fir with scattered volunteer western red cedar and hemlock, and scattered clumps and stringers of red alder trees. Table 2 contains stocking, size and age information for all the areas in this timber sale. Some of the stand level inventory information is based on measurements taken 20 years ago or longer and may not reflect actual stand level conditions. All of the sale areas have been site examined for stocking levels and suitability for thinning treatments. Stand densities are at or rapidly approaching the stem exclusion stage where little understory development occurs. There are few snags in the stands.

Table 2. Stand Inventory Information

Area	Prescription	Stand ID ¹	Species	Inventory Year	Age in 2006	DBH	BA	TPA	SDI	Acres ²
1	PC	985	DF, WH	1982	34	10.0	88	161	28	30
	PC	982	DF, WH	1978	41	10.2	235	415	74	6
	Target	985, 982	DF, WH			12.0	97	110	28	36
3	PC	894	DF, WH	2005	36	11.2	193	279	57	95
	PC	1001	DF	1998	38	16.4	94	64	23	7
	PC	1019	DF, WH	1993	36	10.1	156	282	49	4
	Target	894, 1001, 1019	DF, WH			13.0	101	100	28	106
7	PC	900	DF, WH	2003	32	10.3	154	269	48	45
	Target	900	DF, WH			12.0	97	110	28	45
8	PC	44	DF, RA	2004	38	12.9	164	181	45	65
	Target	44	DF, RA			14.0	105	90	28	65
9	PC	538	DF	1992	28	10.0	108	199	33	80
	Target	538	DF			12.0	97	110	28	80
10	PC	1202	DF	1998	37	12.4	184	219	52	12
	Target	1202	DF			14.0	105	90	28	12
11	PC	1201	DF, WH	1998	39	12.3	176	215	50	10
	Target ³	1201	DF, WH			14.0	105	90	28	10

Area	Prescription	Stand ID ¹	Species	Inventory Year	Age in 2006	DBH	BA	TPA	SDI	Acres ²
2	CC	892	DF, RA	1998	38	12.0	135	168	38	22
4	CC	975	DF, WH	1984	40	12.0	57	74	17	13
5	CC	935	DF, WH	1984	40	12.0	57	74	17	18
6	CC	936	DF, WH	2002	41	11.0	201	309	60	29

	Target ³	892, 975, 935, 936	DF, WH		13.0	10	3	1	82
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1. The source of stand inventory information is SLIP from 2006 grown forward 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:

Areas 1, 3, 7-11: The desired condition for the partial cut units are accelerated tree growth, expansion of tree canopies and increase in radial increment, and understory reinitiation as a result of increased light to the forest floor. Thinning will allow for development of a more complex stand structure over time, and will provide an earlier economic return on investments in site preparation, tree planting, and brush control.

Areas 2, 4, 5, 6: The desired condition for the clearcut units 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 and may have a smaller component of other conifer species including hemlock and/or red cedar. Red alder will also naturally regenerate in the stands. Green trees retained from this operation will provide for multi-story stand structures valuable for wildlife.

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

IV. PROPOSED MANAGEMENT PRESCRIPTION:

Areas 1, 3, 7-11: The prescription for the partial cut units is to thin using an Automark system in which cutters select trees in accordance with unit specifications for residual stocking and average diameter. Thinning will target the portions of the stands with dense stocking. In general, stand density indexes will be reduced to between 25 and 30. Residual stocking is expected to range from 80 to 120 trees per acre and a residual basal area from 90 to 110 square feet per acre. Final thinning prescriptions will be determined during the sale preparation process.

Areas 2, 4, 5, 6: The prescription for the clearcut units 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 on the clearcut units will be achieved by yarding disturbance and treating residual brush with herbicide prior

to planting. The sites will be planted with conifer seedlings at approximately 400-500 trees per acre.

Green Tree Retention - At least 287 (about 3.5 per acre, including snag recruitment) will be left in or adjacent to the clearcut units. 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 clearcut units will be left, with the exception of those that endanger work crews. One additional green tree per 2 acres harvested may be left for future snag recruitment in lieu of topped trees.

Down Log Retention - At least 246 logs (3 logs per acre harvested) will be left in or adjacent to the clearcut units. 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 OUTPUTS:

Table 4. Timber and Revenue

Ownership		Sale Type	
BOF	CSL	Cash	Recovery
	100%		X
Planned Quarter:		4	

	Conifer	Hardwood	Total
Net Volume (MBF)	2,700	100	2,800
Stumpage Value (\$/MBF)	250	150	
Estimated Gross Value	\$675,000	\$15,000	\$690,000
		Project Costs:	\$35,000
		Estimated Net Value:	\$655,000

VI. HARVESTING AND ACCESS CONSIDERATONS:

All legal access to the sale is obtained and there are property lines needing to be surveyed prior to sale layout. The following boundaries will need to be marked on the ground by the District Engineering Team prior to posting the sale boundaries: Area 3, southern and eastern

line; Area 4, southern line; Area 5, southern line; and Area 6, southern, eastern, and western lines. Access into the sale areas are from existing roads summarized below:

Area 1: 1840 road (rocked spur, re-open and improve)

Area 2: Douglas County Route #3 (rocked collector spur, good shape) and 1870 road (dirt spur, re-open and improve)

Area 3: 1845 and 1847 roads (dirt spurs, improve both)

Areas 4, 5, and 6: 1700 road (dirt collector spur, re-open and improve)

Area 7: 1820 road (rocked spur, good shape, re-open dirt side spurs)

Area 8: 7000, 7140 roads (both rocked collector spurs, good shape) and 7102 road (dirt spur, re-open and improve)

Area 9: 2000 road (rocked collector spur, good shape), 2640 road (gated, dirt spur, good shape), 2645, and 2618 roads (both dirt spurs, re-open and improve)

Areas 10 and 11: 2000 road (rocked collector spur, good shape), 2360 road (rocked spur, good shape), and 2365 road (dirt spur, re-open and improve).

Winter harvesting will require purchaser supplied rock. Existing roads and landings in some locations will be improved to allow operations and will be evaluated to determine if pullback of sidecast is necessary. Additional landings and short access spurs may be constructed. Final locations will be determined during the sale preparation process.

The majority of the sale areas will be cable yarded uphill using medium sized yarders. There will be some downhill yarding in Areas 7 and 8. The majority of Area 2 will be downhill cable yarded. Ground based equipment can be used on the gentler portions of Areas 3, 6, and 7, during periods of low soil moisture.

Table 5. Transportation Management Summary (Miles).

Activity	Mainline	Collector	Rocked Spur	Dirt Spur
Construct	0.0	0.0	0.0	0.0
Improve	0.0	0.5	0.13	5.6
Maintain	0.0	2.6	1.3	0.0
Close/Block	0.0	0.0	0.0	5.0
Vacate	0.0	0.0	0.0	0.0

VII. AQUATIC RESOURCES AND WATER QUALITY:

The sale areas are located within the Glenn Creek and West Fork Millicoma River watersheds, including the sub watersheds of West Fork Glenn, Howell, Cedar, Knife, Deer, and Shake Creeks.

Type F and Domestic Use Streams: Glenn Creek is a small type F along the southeast line of Area 2 becoming a large type F along the eastern side of Area

3. Howell Creek is a medium type F along the eastern side of Area 5, the western side of Area 4, and the eastern tip of Area 7, becoming a large type F stream between Areas 4 and 5. West Fork Glenn Creek is a medium type F along the southwest tip of Area 6. Cedar Creek is a medium type F along the western edge of Area 2 and the southern tip of Area 1. Knife Creek is medium type F approximately 500 feet below the southern boundary of Area 8. Deer Creek is a small type F for approximately 300 feet inside Area 9. The following streams were surveyed to ODFW protocol for fish presence: Glenn Creek, 1997 and 2006; West Fork Glenn Creek, 1998; Howell Creek, 1997, 1998, and 2006; Cedar Creek, 1997 and 2006; and Deer Creek, 1997. Portions of streams in and along Areas 8 and 11 have not had fish presence surveys completed and will be assessed for further survey needs by the southern Oregon biologist.

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

Type N Streams: All drainages associated with the sale area will be field surveyed during the 2007 summer low flow period to determine the stream channel extent and whether streamflow is perennial or seasonal.

Aquatic Resource Protection: A written plan will be prepared in accordance with the Forest Practices Act for operations within 100 feet of Type F streams. A culvert under the 1820 road on a tributary to Howell Creek has been identified as a fish passage problem. A field visit by the Area Biologist and District Engineers will be required to address the problem.

VIII. WILDLIFE AND T&E SPECIES CONSIDERATIONS:

The habitat within this sale area was determined to be non-suitable for certain threatened and endangered 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: - This timber sale does not involve the harvest of NSO nesting, roosting, and foraging habitat. Fifty percent (2,222 acres) of Basin 16 total acres must provide dispersal habitat. After completion of the clearcut units of this sale plan, there will be approximately 2387 acres of dispersal habitat retained which includes 149 acres of in growth in 2007. After completion of the thinning units of this sale plan there should be an increase in dispersal habitat as more acres move into diameter classes of 11 inches or larger.

Marbled Murrelet – The sale areas do not contain marbled murrelet habitat but portions of the sale areas are within 330 feet or 1/4 mile of suitable habitat as described below:

Area 1 and Area 2: Portions of both units are within ¼ mile of the Glenn Headwaters Marbled Murrelet Management Area but not within 330’.

Area 7: Northern portion is within 330 feet of Panther Headwaters Marbled Murrelet Management Area (MMMA).

Area 8: Majority of unit is within 330 feet of either Knife Forks MMMA or Charlotte Headwaters MMMA.

Area 10: Western portion is within ¼ mile of the Dry Ridge MMMA but not within 330’.

Area 11: Eastern portion of the sale is within 330 feet of Joe Buck MMMA.

Oregon Department of Forestry’s Southern Oregon Area Biologist will prepare a murrelet survey waiver and 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 known bald eagle nest sites or other listed animal species within this sale.

Salmon and Steelhead – *Areas 1-7:* There are no salmon or steelhead located in the stream reaches associated with these sale areas due to the natural barrier at Golden and Silver Falls. *Area 9:* This partial cut area contains approximately 300 feet of the upper reaches of Deer Creek, a small Type F likely to support populations of trout. *Areas 8 and 11:* Tribs to Knife Creek and West Fork Millicoma will be assessed by the Southern Oregon Biologist to determine further fish presence survey needs.

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

Fragmentation - These sale areas consist of young stands and harvesting will not increase fragmentation of interior mature forest habitat.

IX. SLOPE STABILITY AND GEOTECHNICAL ISSUES:

All Areas: 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.

Clearcut Areas:

Area 2 does not appear to have significant areas of high landslide hazards acres. A small portion of the lower ¼ of the slope may meet criteria, however a potential open-slope failure is unlikely to reach Glenn Creek due to the presence of a road at the base of the slope.

Area 4 does not appear to have the same degree of dissected topography as Area 5 (which is directly opposite on the east aspect slope), therefore delivery to Howell Creek or its tributary is uncertain, however it is more likely on the northern

1/3rd of the unit, to the Howell Creek tributary.

Area 5 has steep slopes and two (possibly three) potential debris flow tracks which appear conducive to debris flow delivery to Howell Creek. Deposition is likely to occur at the tributary junctions with the main stem of Howell Creek.

Area 6 slopes do not appear to meet criteria for classification as high landslide hazard.

Vegetation retention practices for potential debris flow track reaches as prescribed in the Management Standards for Aquatic and Riparian Areas (Appendix J, Table J-2) will be applied.

X. RECREATION RESOURCES:

Area 7 contains a 6 acre dispersed recreation site centered around a developed water hole. No thinning activities will occur within the 6 acres.

The most common recreation for these areas 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 area.

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

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

Area	Production	Service Use
1	36	

2	22	
3	106	
4	13	
5	18	
6	29	
7	45	6
8	65	
9	80	
10	12	
11	10	



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- Type N streams
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- Road Improvement
- County line
- - - Forest boundary
- 20' Contours
- Sections



Howell About Combo Timber Sale
 -- TOPOGRAPHY --
 FY 08 SALE PLAN
 COOS DISTRICT

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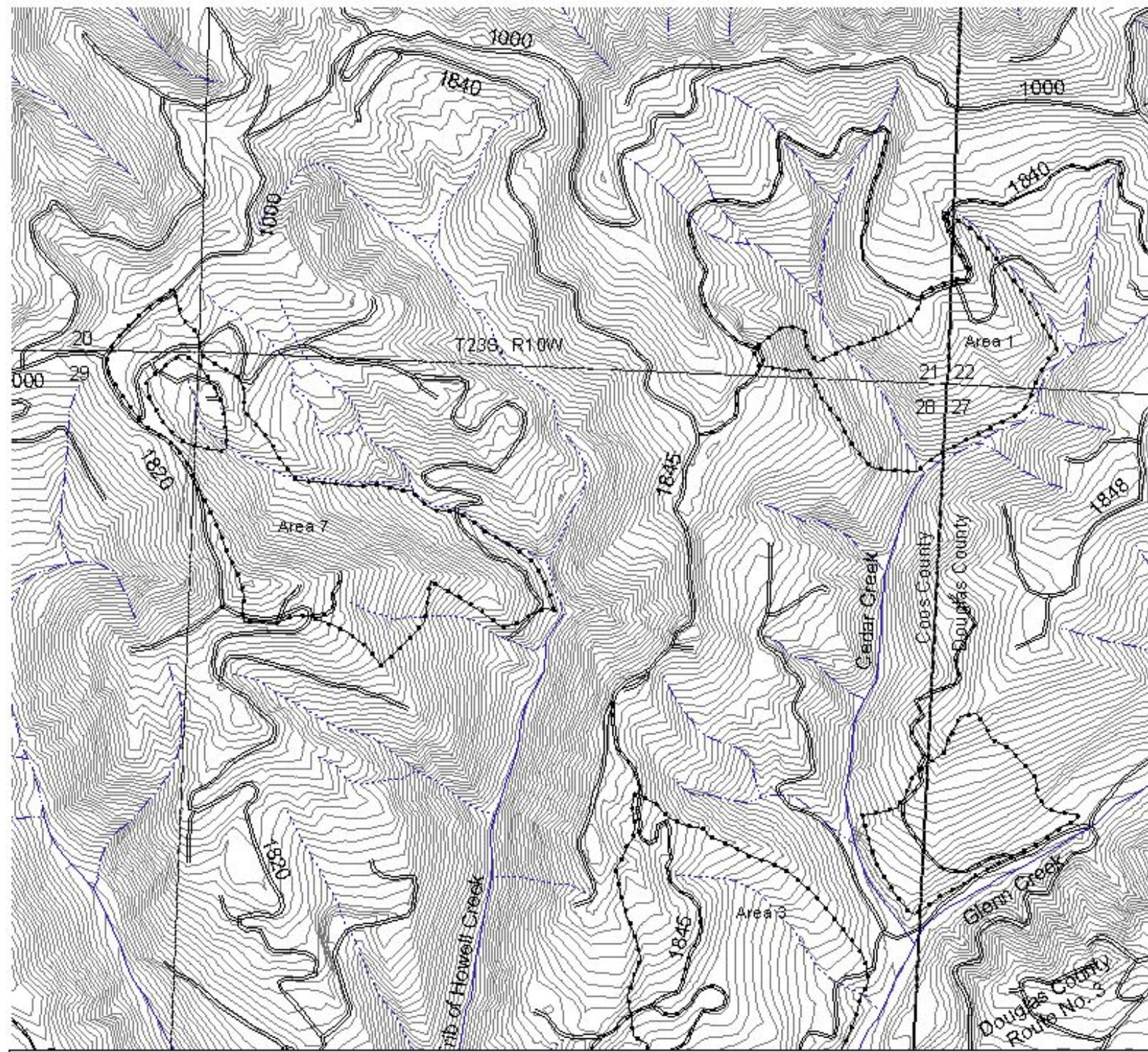
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Approximate Total Net Acres 436



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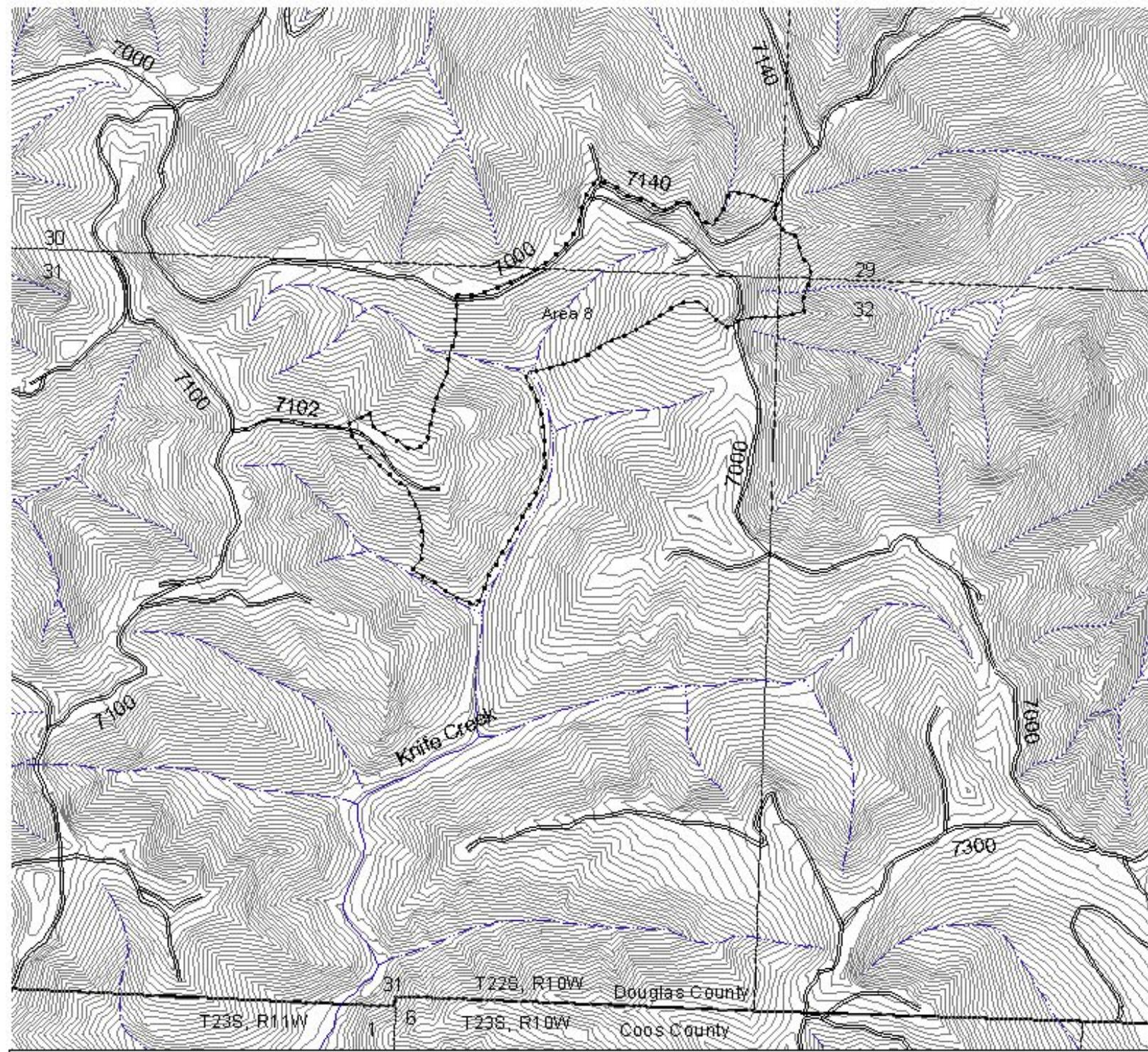
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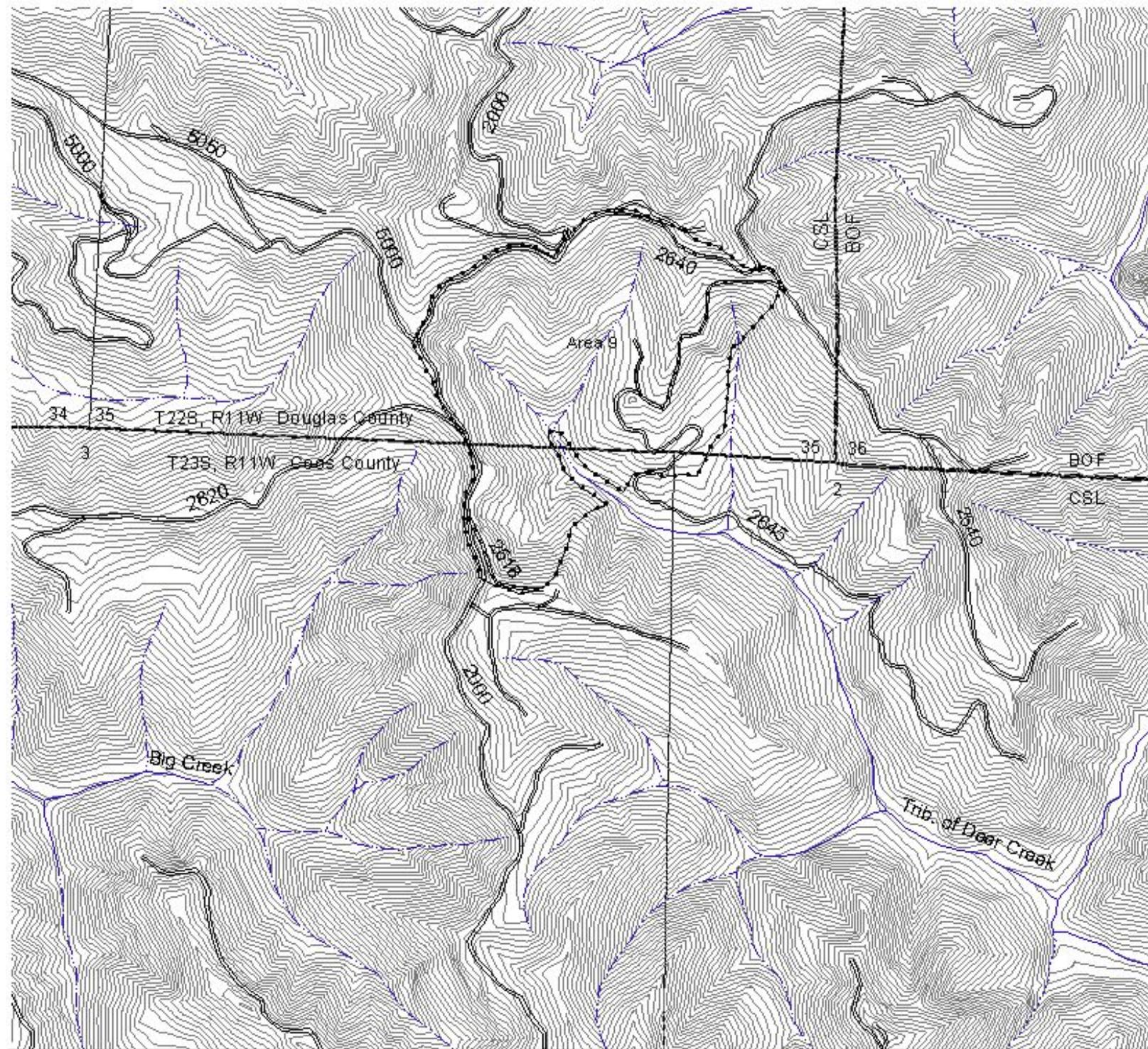
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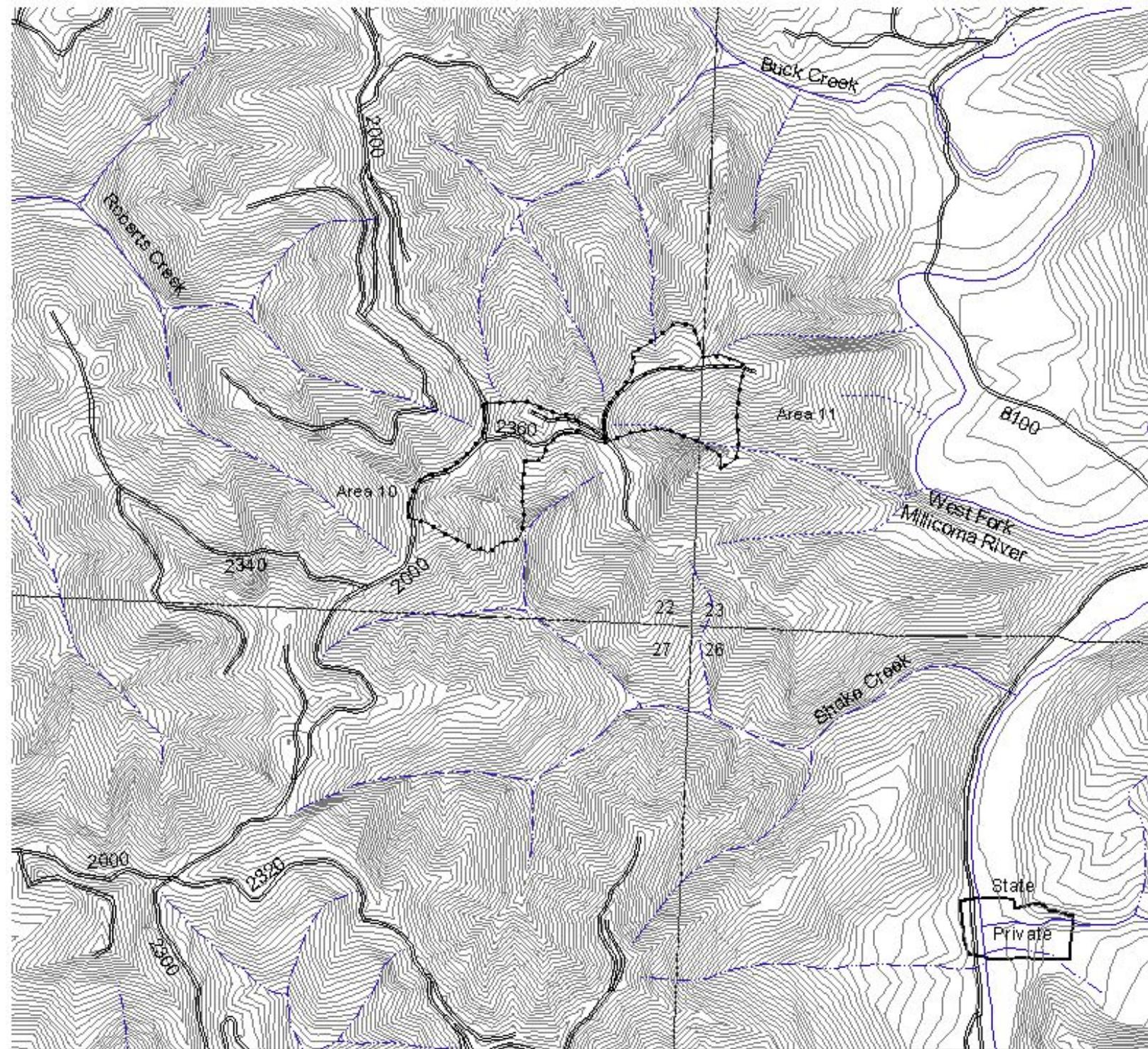
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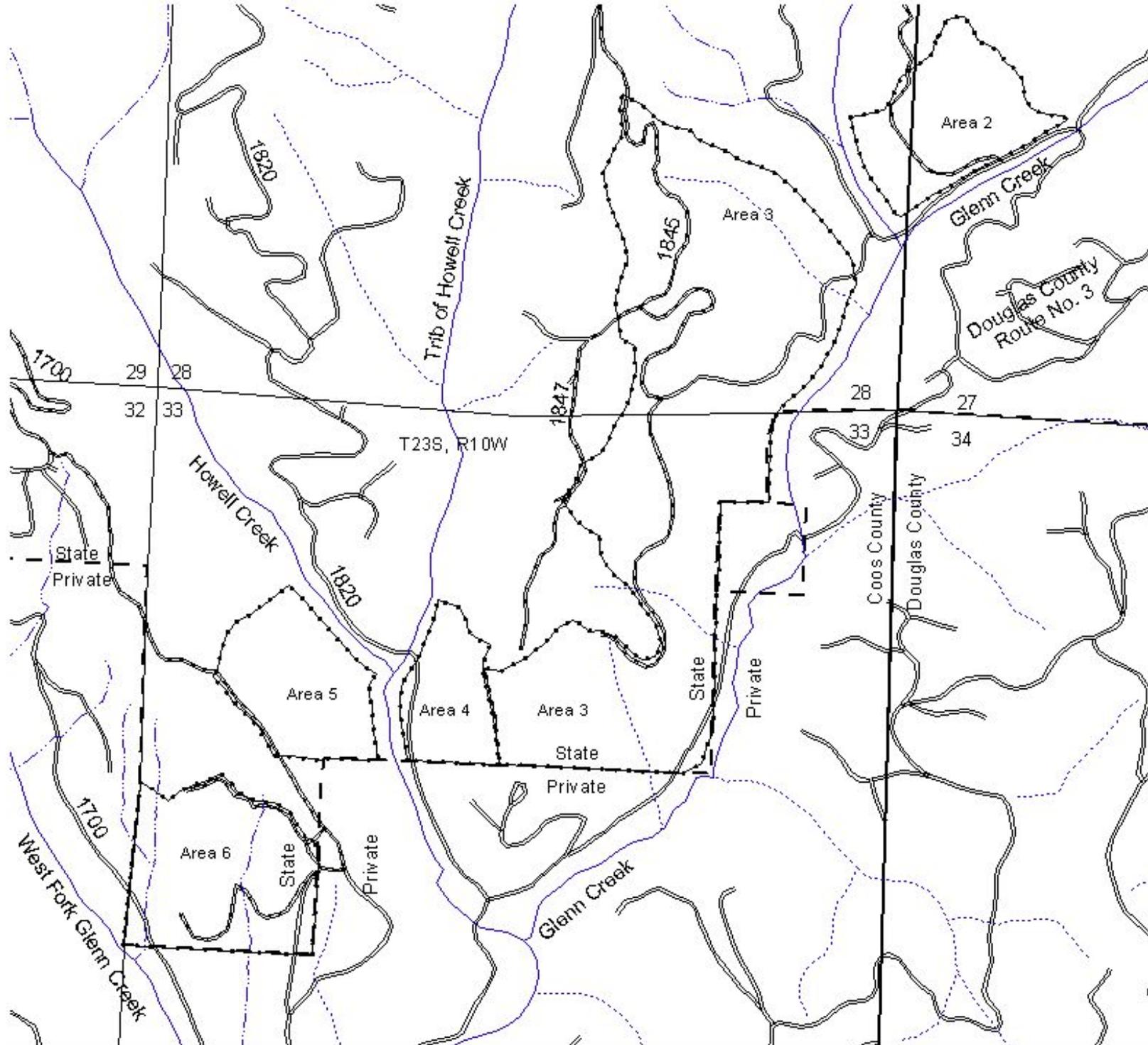
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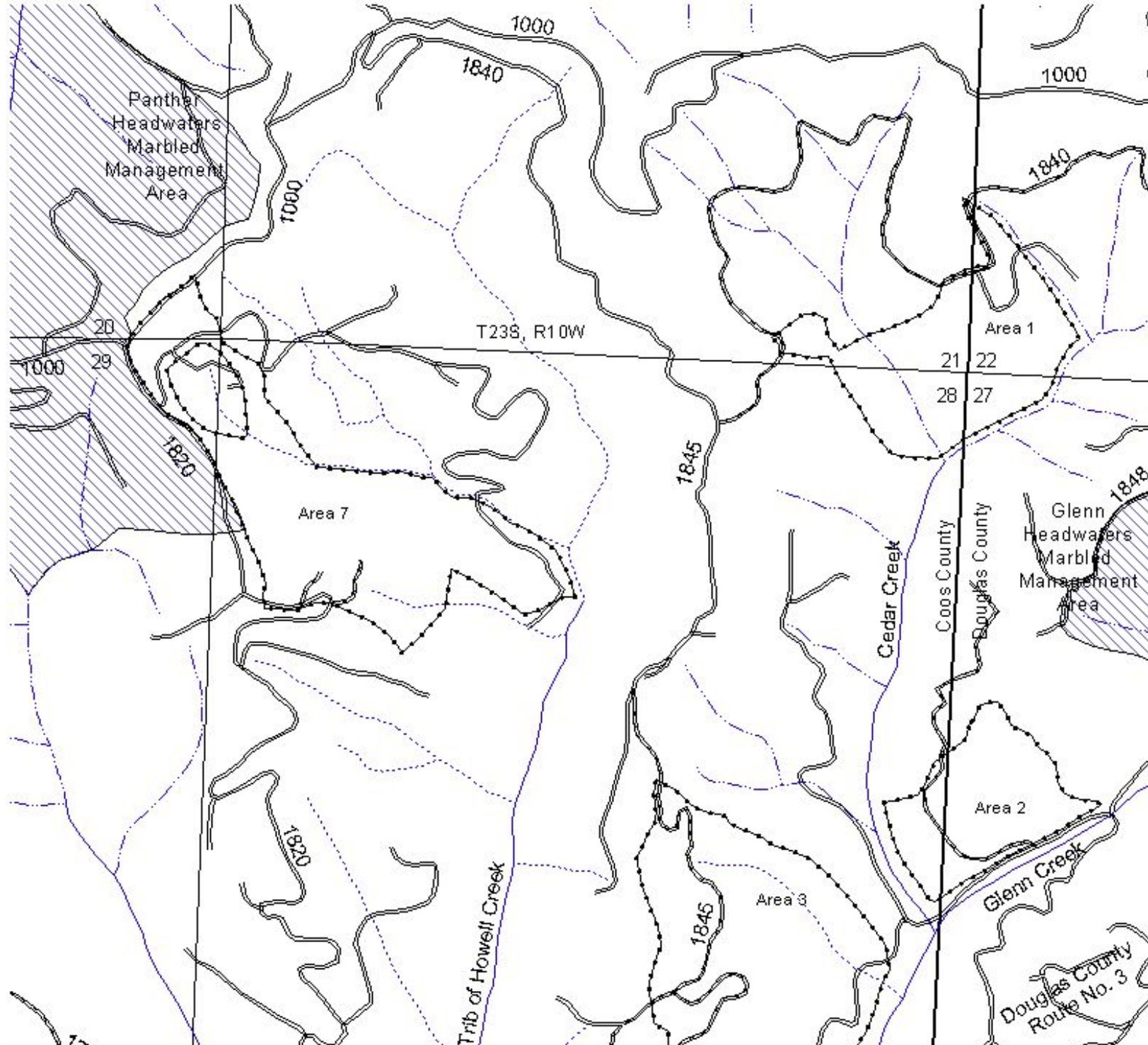
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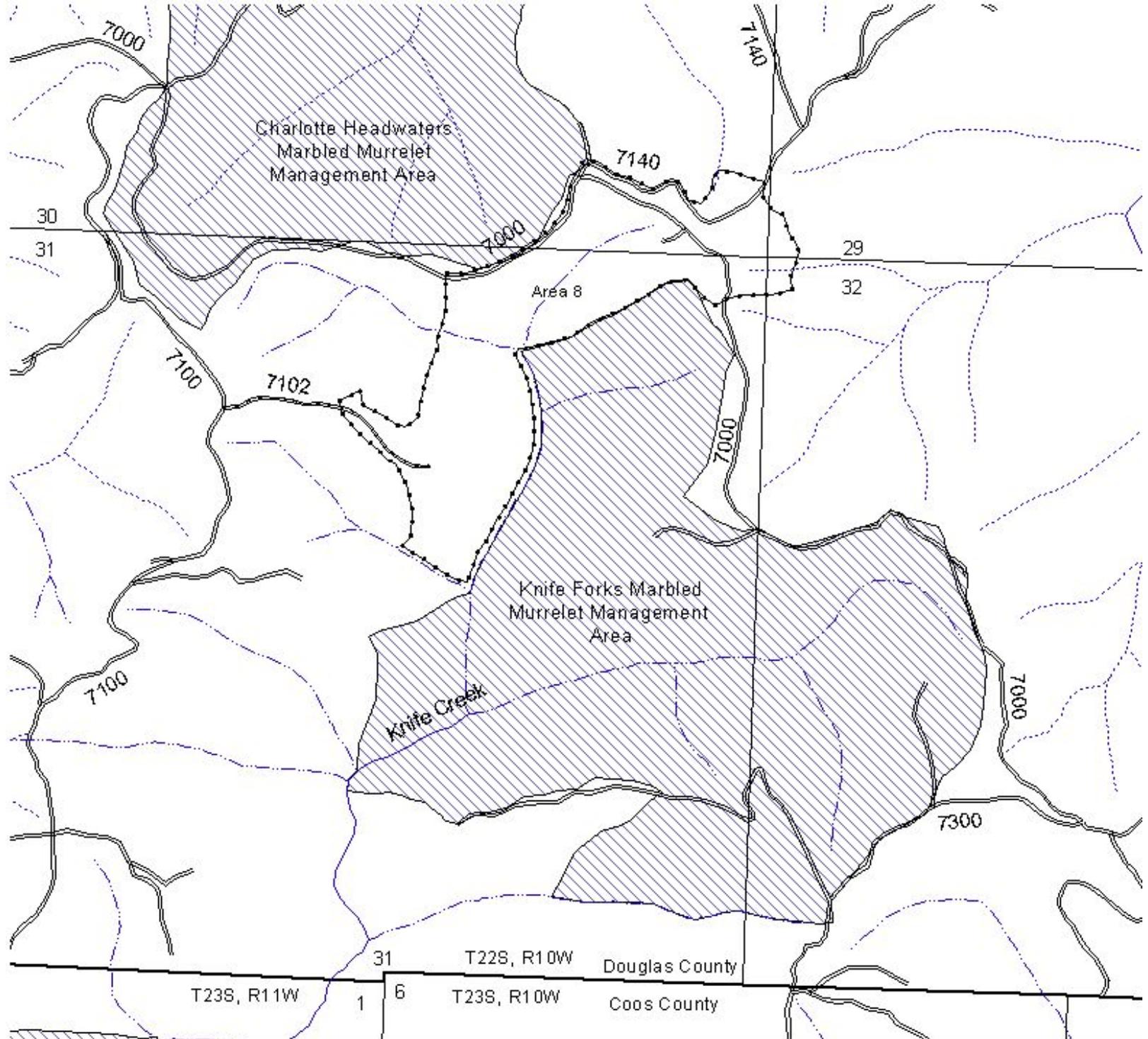
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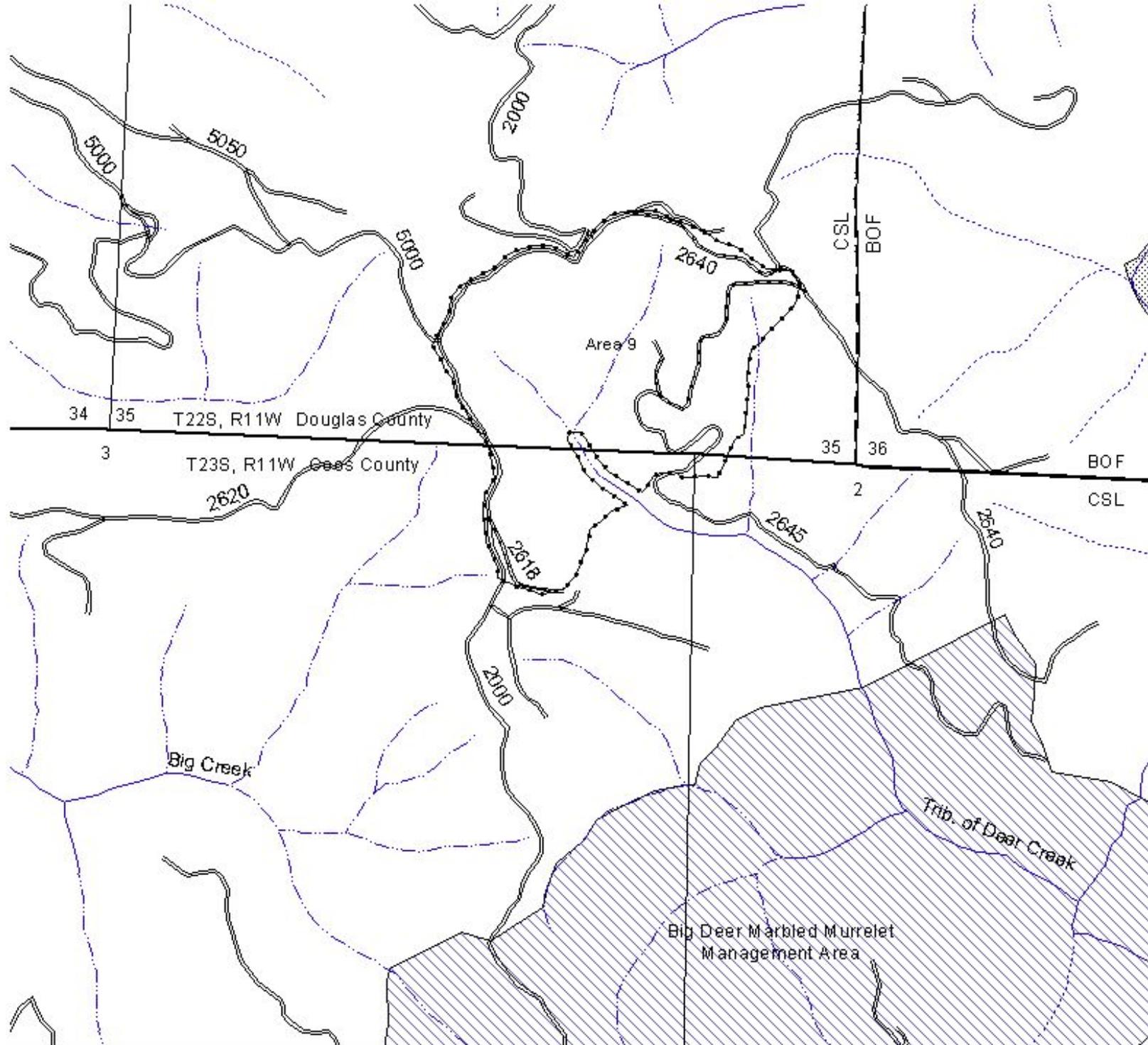
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- Unclassified streams
- Existing roads
- Road Improvement
- County line
- Forest boundary
- ▨ Marbled Murrelet Management Area
- ▩ Habitat Conservation Area



Howell About Combo Timber Sale
 -- KEY RESOURCES --
 FY 08 SALE PLAN
 COOS DISTRICT

Portions of Sections 29, 30, 31, and 32 , T22S, R 10W ,
 Section 35, T22S, R11W, Sections 22 and 27 ,
 T23S, R10W W.M. Douglas County, Oregon

Portions of Sections 20, 21, 28, 29, and 33,
 T23S, R10W, and Sections 3, 22, and 23, T23S,
 R 11W , W.M. Coos County, Oregon

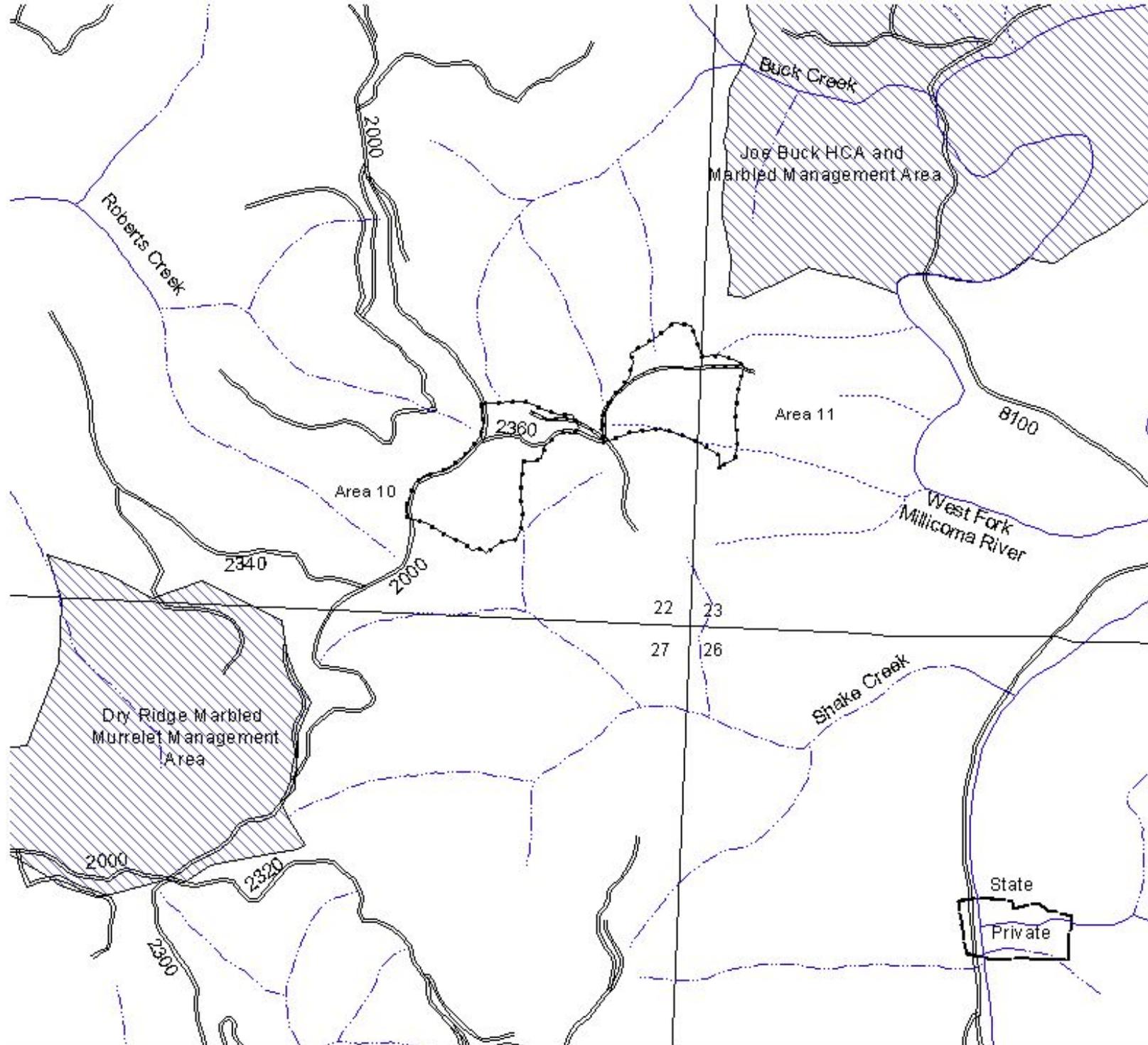
Sale Area	Harvest Type	Net Acres
1	Partial Cut	36
2	Clearcut	22
3	Partial Cut	106
4	Clearcut	13
5	Clearcut	18
6	Clearcut	29
7	Partial Cut	45
8	Partial Cut	65
9	Partial Cut	80
10	Partial Cut	12
11	Partial Cut	10



Coos District GIS
 12-22-2006

This product is for informational use and
 may not have been prepared for, or suitable
 for legal, engineering, or surveying purposes.

Approximate Total Net Acres 436



- Timber Sale Boundary
- Type F streams
- Type N streams
- Unclassified streams
- Existing roads
- Road Improvement
- County line
- Forest boundary
- ▨ Marbled Murrelet Management Area
- ▨ Habitat Conservation Area



Howell About Combo Timber Sale
 -- KEY RESOURCES --
 FY 08 SALE PLAN
 COOS DISTRICT

Portions of Sections 29, 30, 31, and 32, T22S, R10W,
 Section 35, T22S, R11W, Sections 22 and 27,
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 T23S, R10W, and Sections 3, 22, and 23, T23S,
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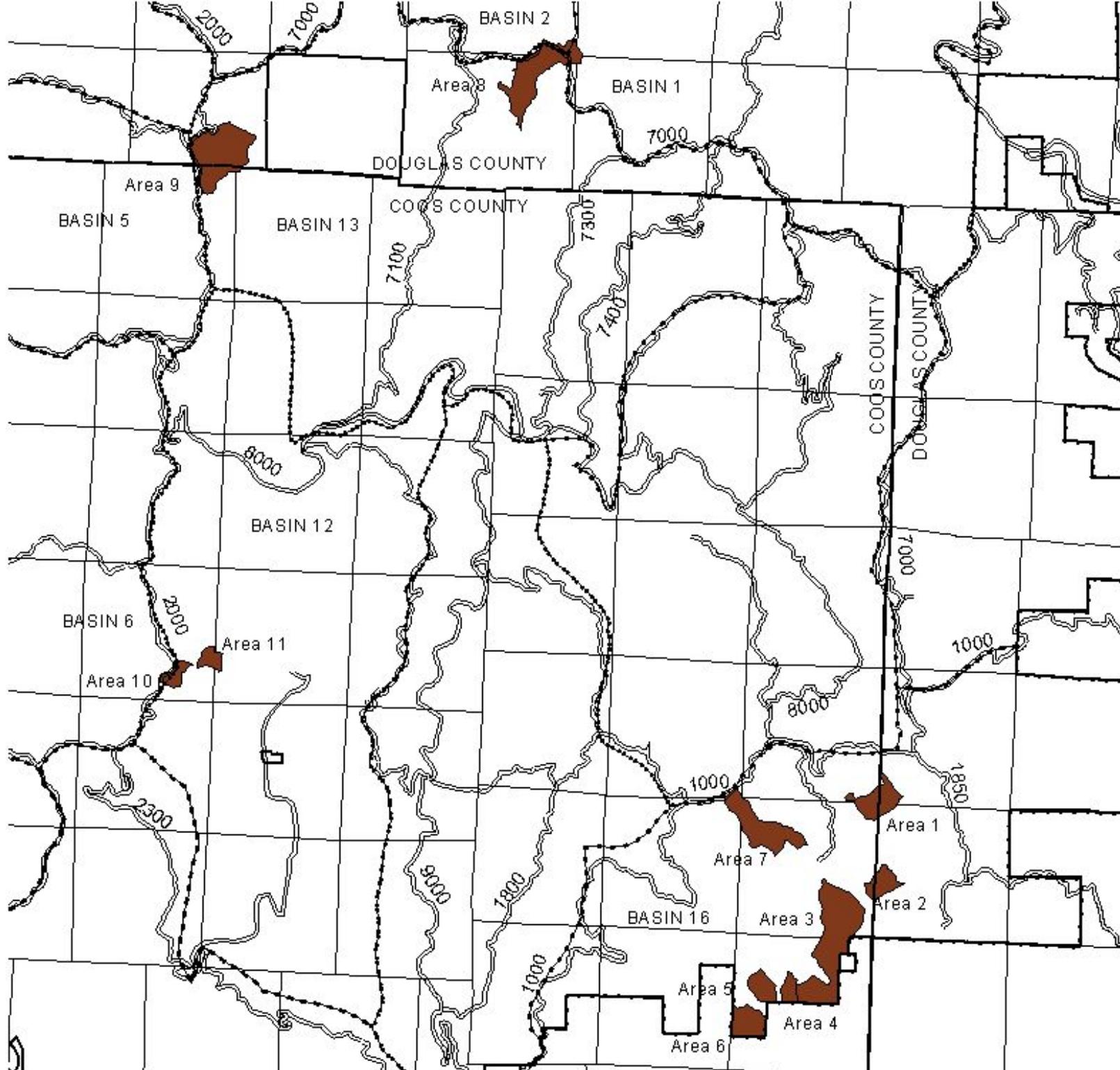
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 12-22-2006

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Approximate Total Net Acres 436



Howell About Combo Timber Sale
 -- VICINITY --
 FY 08 SALE PLAN
 COOS DISTRICT

Portions of Sections 29, 30, 31, and 32, T22S, R10W,
 Section 35, T22S, R11W, Sections 22 and 27,
 T23S, R10W W.M. Douglas County, Oregon

Portions of Sections 20, 21, 28, 29, and 33,
 T23S, R10W, and Sections 3, 22, and 23, T23S,
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Approximate Total Net Acres 436

- Mainline roads
- Management basin
- County line
- Forest ownership
- Harvest units
- Sections



1 0 1 Miles