



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Comados
Sale 341-11-18

District: Coos

Date: May 28, 2010

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$1,262,296.71	\$40,202.59	\$1,302,499.30
		Project Work:	\$(74,846.00)
		Advertised Value:	\$1,227,653.30



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Sale 341-11-18

District: Coos

Date: May 28, 2010

timber description

Location: Portions of Sections 35 and 36, T23S, R11W, and portions of Sections 1 and 2, T24S, R11W, W.M., Coos County, Oregon.

Stand Stocking: 20%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	24	0	95
Western Hemlock / Fir	12	0	90
Red Cedar	15	0	90
Alder (Red)	20	0	85

Volume by Grade	10" - 11"	12"+	2S	3P	3S	3S 12"+	4S	6" - 7"	8" - 9"	SM	Total
Douglas - Fir	0	0	2,918	118	434	197	39	0	0	237	3,943
Western Hemlock / Fir	0	0	33	0	125	0	1	0	0	0	159
Red Cedar	0	0	3	0	10	0	1	0	0	0	14
Alder (Red)	18	83	0	0	0	0	0	17	13	0	131
Total	18	83	2,954	118	569	197	41	17	13	237	4,247



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comments: Pond Values Used: 1st Quarter Calendar Year 2010.

Regeneration harvest of two units containing approximately 85 acres of predominately 105-132 year-old mature second growth Douglas-fir sawtimber.

Section 2335 - 44 snags shall be created in the timber sale area following timber sale contract specifications. For each snag fewer than 44 not required to be created, \$75 shall be paid to STATE.

SCALING COST ALLOWANCE = \$5.00/MBF

FUEL COST ALLOWANCE = \$3.00/Gallon

HAULING COST ALLOWANCE

Hauling costs equivalent to \$700 daily truck cost.

Other Costs (with Profit & Risk to be added):

Felling:

* Directional Felling: \$2/MBF x 375 MBF = \$750

Yarding and Loading:

* Brand and Paint Logs: \$1/MBF x 4,247 MBF = \$4,247

* Loader Time for Firewood Stacking: \$75/hour x 3 hours = \$225

* Cull Sorting/Slash Piling on Landings: \$125/landing x 3 landings = \$375

Snag Creation:

* Tree Topping: \$75/tree x 22 trees = \$1,650

* Tree Girdling (Topping Height): \$75/tree x 22 trees = \$1,650

TOTAL Other Costs (with Profit & Risk to be added) = \$8,897

Other Costs (No Profit & Risk to be added):

None.



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"STEWARDSHIP IN FORESTRY"

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logging conditions

combination#: 1 Douglas - Fir 100.00%
 Western Hemlock / Fir 100.00%
 Red Cedar 100.00%
 Alder (Red) 100.00%

yarding distance: Long (1,500 ft) **downhill yarding:** No
logging system: Cable: Large Tower >=70 **Process:** Manual Delimiting

tree size: Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF

loads / day: 12.0 **bd. ft / load:** 5,000

cost / mbf: \$61.56

machines: Log Loader (A)
 Tower Yarder (Large)



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Comados
Sale 341-11-18

District: Coos

Date: May 28, 2010

logging costs

Operating Seasons:	1.00	Profit Risk:	15.00%
Project Costs:	\$74,846.00	Other Costs (P/R):	\$8,897.00
Slash Disposal:	\$0.00	Other Costs:	\$0.00

Miles of Road

Road Maintenance: \$0.00

Dirt	Rock (Contractor)	Rock (State)	Paved
2.0	0.0	0.0	0.0

Hauling Costs

Species	\$ / MBF	Trips/Day	MBF / Load
Douglas - Fir	\$0.00	2.0	5.0
Western Hemlock / Fir	\$0.00	2.0	4.5
Red Cedar	\$0.00	2.0	4.5
Alder (Red)	\$0.00	2.0	3.5



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Comados
Sale 341-11-18

District: Coos

Date: May 28, 2010

logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas - Fir									
\$61.56	\$1.26	\$1.03	\$63.91	\$2.09	\$19.48	\$0.00	\$5.00	\$0.00	\$154.33
Western Hemlock / Fir									
\$61.56	\$1.32	\$1.03	\$74.39	\$2.09	\$21.06	\$0.00	\$5.00	\$0.00	\$166.45
Red Cedar									
\$61.56	\$1.32	\$1.03	\$74.39	\$2.09	\$21.06	\$0.00	\$5.00	\$0.00	\$166.45
Alder (Red)									
\$61.56	\$1.38	\$1.03	\$100.00	\$2.09	\$24.91	\$0.00	\$5.00	\$0.00	\$195.97

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$464.56	\$310.23	\$0.00
Western Hemlock / Fir	\$0.00	\$365.13	\$198.68	\$0.00
Red Cedar	\$0.00	\$700.00	\$533.55	\$0.00
Alder (Red)	\$0.00	\$502.86	\$306.89	\$0.00



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Comados
Sale 341-11-18

District: Coos

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summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00
Western Hemlock / Fir	0	\$0.00	\$0.00
Red Cedar	0	\$0.00	\$0.00
Alder (Red)	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	3,943	\$310.23	\$1,223,236.89
Western Hemlock / Fir	159	\$198.68	\$31,590.12
Red Cedar	14	\$533.55	\$7,469.70
Alder (Red)	131	\$306.89	\$40,202.59

Gross Timber Sale Value

Recovery: \$1,302,499.30

Prepared by: Ryan Greco

Phone: 541-267-1755

Summary of "Other Costs" for Timber Sale Appraisals

Sale Name: Comados

Additional "Other Cost" with additional profit and risk to be added:

	<u>Units</u>	<u>Quantity</u>	<u>Cost/unit</u>	<u>Total Cost</u>
Felling				
Felling of unmerch material	MBF	0	\$ 1.00	\$ -
Directional Felling	MBF	375	\$ 2.00	\$ 750.00
Yarding and Loading				
Artificial tailhold	anchor		\$ 500.00	\$ -
Artificial guyline support	anchor	0	\$ 500.00	\$ -
Brand and paint logs	MBF	4247	\$ 1.00	\$ 4,247.00
Loader time for firewood stacking	Hours	3	\$ 75.00	\$ 225.00
Cull sorting/slash piling on landings	landing	3	\$ 125.00	\$ 375.00
Rig lift trees	lift tree	0	\$ 100.00	\$ -
Snag Creation				
Tree Topping	Trees	22	\$ 75.00	\$ 1,650.00
Tree Girdling (BH)	Trees		\$ 50.00	\$ -
Tree Girdling (Topping Height)	Trees	22	\$ 75.00	\$ 1,650.00
Miscellaneous Costs				
Additional Fire Equipment	Seasons	0	\$ 1,000.00	\$ -
Fish Log Stock Pile: Yarding & Decking	MBF	0	\$ 62.00	\$ -
Fish Log Stock Pile: Special Handling	MBF	0	\$ 8.00	\$ -
Maintenance rock per section 5	Cubic Yards	0	\$ 18.00	\$ -
Noxious Weed Washing	Per Piece	0	\$ 390.00	\$ -

Total additional "Other Cost" with additional profit and risk to be added

\$ 8,897.00

Additional "Other Cost" with no additional profit and Risk

	<u>Units</u>	<u>Quantity</u>	<u>Cost/unit</u>	<u>Total Cost</u>
Non-required road construction	Stations			\$ -
Non-rquired road rocking	Cubic Yards			\$ -
Stream clearance	Feet			\$ -
Scaling (high piece count)	MBF		\$ 1.00	\$ -

TIMBER SALE SUMMARY

Comados

1. Type of Sale: Final Harvest, Recovery, Sealed Bid

2. Boundary Lines: Sale boundaries are marked on the ground with "Timber Sale Boundary" posters, red flagging, and red paint at locations shown on the Exhibit "A".

3. Revenue Distribution: 100% CSL, 100% Coos County.

4. Sale Acreage: The sale is comprised of two units totaling 85 acres. Sale acreage was determined from electronic digitizing using the ArcMap 9 GIS program. Interior road acres were accounted for by excluding from the cruise.

5. Volume by Species, Fund and County. See Attached table titled Net Volumes and Acreages

6. Grade: (by Percent, all areas)

Species	3 Peeler %	Spec. Mill %	2 Saw %	3 Saw %	Big 3 Saw %	4 Saw %
Douglas-fir	3%	6%	74%	11%	5%	1%
Hemlock			21%	79%		
Cedar			20%	70%		10%
		12"+	10-11"	8-9"	6-7"	
Hardwoods		63%	14%	10%	13%	

7. Cruise: The timber sale area was cruised using a variable plot cruise with a nested Big BAF plot. The Big BAF method is a combination of count plots and individually measured trees. The plots were spaced 132 feet apart on cruise lines spaced 342 feet apart. A 360 BAF full plot at 16 feet was taken to determine which Douglas-fir trees would be fully measured.

A total of 47 Douglas-fir trees were fully measured for DBH, height, grade and defect. A 40 BAF full plot at 16 feet was used to determine tree counts and to measure minor species. A total of 80 count plots were measured. Cruising was done in January 2010 by ODF foresters.

A. Summary data:

Diam	Ht. Stand	Form Pt.	Form Factor	CV %	SE %
D4H	6" DIB	Conifer: 16' Hardwood: 16'	Recorded for all cruised trees by estimate and measure	65%	9%

B. Stand Data:

SPECIES	DBH	TREES/ACRE	BASAL AREA/AC	NET MBF/ACRE
Douglas Fir	24	66	214	46
Hemlock	12	11	9	2
Hardwoods	20	7	16	<2

C. Green Tree Retention: Reserve areas consist of stream buffer extensions and trees left along seasonal and perennial drainages. Pods of green trees were left in areas that will not impede operability. These pods are mostly located adjacent to the timber sale boundary with an exception of several scattered green trees in Area 2. The northern part of Area 1 was modified from the original Annual Operations Plan map due to operational difficulties of logging over the strong east to west ridge that is now the timber sale boundary. The table below summarizes reserve trees whose volume has been removed from the cruise. Stream buffers and GTR areas are mapped in Exhibit "A."

Sale Area	Douglas fir - MBF	Hemlock MBF	Hardwood MBF
1	40.9	4.5	0.1
2	18.5	0.4	0.1

8. Timber Description: The majority of timber in the sale area is mature 105 to 132 year-old Douglas-fir sawtimber with minor amounts of western hemlock, red cedar, and red alder. Approximately 100 MBF of timber was windthrown during the winter of 2006. Merchantable windthrown timber shall be harvested and is included in volume calculations. Timber quality is good.

9. Topography: Area 1 is bordered by the 2308 road to the south, reproduction to the east and west, and mature timber to the north. All exterior perimeter sale boundaries are located on prominent ridges. Unnamed tributaries of the West Fork Millicoma River drain both sale areas. Area 2 is bordered by reproduction to the south, north, and northwest and mature timber to the east and southwest. General topography is steep with the exception of a large bench in the northern part of area 2. Locations of stream buffers and green tree retention areas are indicated on the Exhibit "A".

10. Logging Method: This timber sale is designed for cable logging from three landings situated on the 2308 and 9040 roads or new spurs to be constructed from the 9040. Due to the Marbled Murrelet Management Area (MMMA) to the east of Area 2, seasonal restrictions will be in place during the summer months.

Final determination of landing locations and logging method must give priority to protection of stream buffers and green tree retention areas. Full suspension will be required while yarding over drainages and stream buffers, and single end suspension over the remainder of the sale area. The timber sale is intended for dry season operation. Purchaser must comply with winter and wet weather option if operations are conducted during the wet season. Roads and landings are indicated on the Exhibit "A".

11. Access: From Coos Bay take Coos River Highway to Marlow Creek (1000 line). Proceed 10 miles up the 1000 line to the 2300. Head NW on the 2300 and veer right at the 2308 road. Area 1 is at the end of the 2308. To access area 2 Proceed 10.5 miles up the 1000 to the 9000 line and proceed 1.5 miles up the 9000. Turn left (north) onto the 9040 and head up approximately 1 mile to the timber sale.

12. Projects:

Project 1: Road and Landing Construction

Project 2: Road Improvement

Project 3: Rock Stockpiles

**SUMMARY OF CONSTRUCTION COST
Comados**

Project 1: Road and Landing Construction

Points: G to H Length: 1100' Type: 14' no ditch

Excavator	20	hrs at	\$125.00	per hour	\$2,500.00
Cat time	20	hrs at	\$125.00	per hour	\$2,500.00
Drill and shoot	10	hrs at	\$250.00	per hour	\$2,500.00
Dump Truck	5	hrs at	\$95.00	per hour	\$475.00
Grader	2	hrs at	\$75.00	per hour	\$150.00
Laborer	20	hrs at	\$35.00	per hour	\$700.00

Move-in

Equipment	Miles	hrs/RT	Lowboy Rate/hr	Total
Excavator	30	4	\$95.00	\$380.00
Cat	30	4	\$95.00	\$380.00
Dril & Comp	30	4	\$95.00	\$380.00
Grader	30	3.5	\$95.00	\$332.50
Dump Truck	30	3.5	\$95.00	\$332.50

Move-between units

Low-boy to move equipment between areas	4	hrs at	\$95.00	per hour	\$380.00
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Total Move-in: \$2,185.00

Project 1 Total \$11,010.00

Project 2A: Road Improvement

Points: A to B Length: 3740' Type: 14' w/ditch

Grader time	5	hrs at	\$75.00	per hour	\$375.00
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Total Project 2A: \$375.00

Project 2B: Road and Landing Improvement

Points: B to C Length: 380' Type: 14' no ditch

Excavator - remove brush, material	3	hrs at	\$125.00	per hour	\$375.00
Cat time - push material, make landing larger	3	hrs at	\$125.00	per hour	\$375.00
Grader time	1	hrs at	\$75.00	per hour	\$75.00
Laborer	3	hrs at	\$35.00	per hour	\$105.00

Total Project 2B: \$930.00

Project 2C: Road and Landing Improvement

Points: B to D Length: 1230' Type: 14' w/ditch

Excavator - pick up slough, establish ditch	3	hrs at	\$125.00	per hour	\$375.00
Dump Truck - haul slough to Point C	3	hrs at	\$95.00	per hour	\$285.00
Grader time	1	hrs at	\$75.00	per hour	\$75.00
Laborer	3	hrs at	\$35.00	per hour	\$105.00

Total Project 2C: \$840.00

**SUMMARY OF CONSTRUCTION COST
Comados**

Project 2D: Road Improvement

Points: E to F Length: 4675' Type: 14' w/ditch

Excavator - clean up	<u>2</u>	hrs at	<u>\$125.00</u>	per hour	<u>\$250.00</u>
Grader time	<u>4</u>	hrs at	<u>\$75.00</u>	per hour	<u>\$300.00</u>
Laborer	<u>2</u>	hrs at	<u>\$35.00</u>	per hour	<u>\$70.00</u>

Total Project 2D: \$620.00

Project 2E: Road Improvement

Points: F to G Length: 720' Type: 14' w/ditch

(includes turnaround at G)

Cat time - improve turnaround	<u>3</u>	hrs at	<u>\$125.00</u>	per hour	<u>\$375.00</u>
Grader time	<u>1</u>	hrs at	<u>\$75.00</u>	per hour	<u>\$75.00</u>
Laborer	<u>3</u>	hrs at	<u>\$35.00</u>	per hour	<u>\$105.00</u>

Total Project 2E: \$555.00

Project 2 Total \$3,320.00

Project 3A: Rock Stockpile

Location: Big Saddle (10 mi on 1000 Rd)
Measured amount: 1200 cu yds
Size: 1 1/2" - 0"

Cost per cu yd at crusher:	\$12.24	per yd
Haul cost per cu yd (2.4 hr RT):	\$10.67	per yd
Piling and shaping cost per cu yd:	<u>\$2.00</u>	per yd
 Total cost per cu yd:	 \$24.91	 per yd
Total cu yds:	1200	yards

Total Cost for Stockpile rock: \$29,892.00

Total Project 3A: \$29,892.00

Project 3B: Rock Stockpile

Location: Y Creek (3 mi on 1000 Rd)
Measured amount: 1200 cu yds
Size: 1 1/2" - 0"

Cost per cu yd at crusher:	\$15.96	per yd
Haul cost per cu yd (1.7 hr RT):	\$7.56	per yd
Piling and shaping cost per cu yd:	<u>\$2.00</u>	per yd
 Total cost per cu yd:	 \$25.52	 per yd
Total cu yds:	1200	yards

Total Cost for Stockpile rock: \$30,624.00

Total Project 3B: \$30,624.00

Project 3 Total \$60,516.00

Total Project Costs \$74,846.00

NET VOLUMES AND ACREAGE

SALE AREA & SPECIES		Tree cnt. 100% Units	NET VOLUMES (MBF)							
			By County and Fund						Total Vols.	Vol. per Acre
			Coos			Douglas				
Area	Spec	CSL	BOF	Total	CSL	BOF	Total			
1	D-fir	2114		2114			0	2114	49	
	Hdwd	69		69			0	69	2	
	Cedar	5					0		0	
	WH	83		83			0	83	2	
2	D-fir	1829		1829			0	1829	44	
	Hdwd	62		62			0	62	1	
	Cedar	9		9			0		0	
	WH	76		76			0	76	2	

TOTAL SALE VOLUME BY SPECIES

Douglas-fir	3943	MBF
Hemlock	159	MBF
Hardwoods	131	MBF
Cedar	14	MBF
Total	4247	MBF

Report by: Ryan Greco *RG*

Date: 04/13/2010

Unit For. *[Signature]* *4/21/10*
Date

Asst. Dist. For *[Signature]* *2010.04.23*
Date

**UTILITY VOLUME NOT SHOWN TO PROVIDE FOR RETENTION OF DOWN LOGS
NO INGROWTH INCLUDED**

ACREAGE BY COUNTY (to nearest acre)

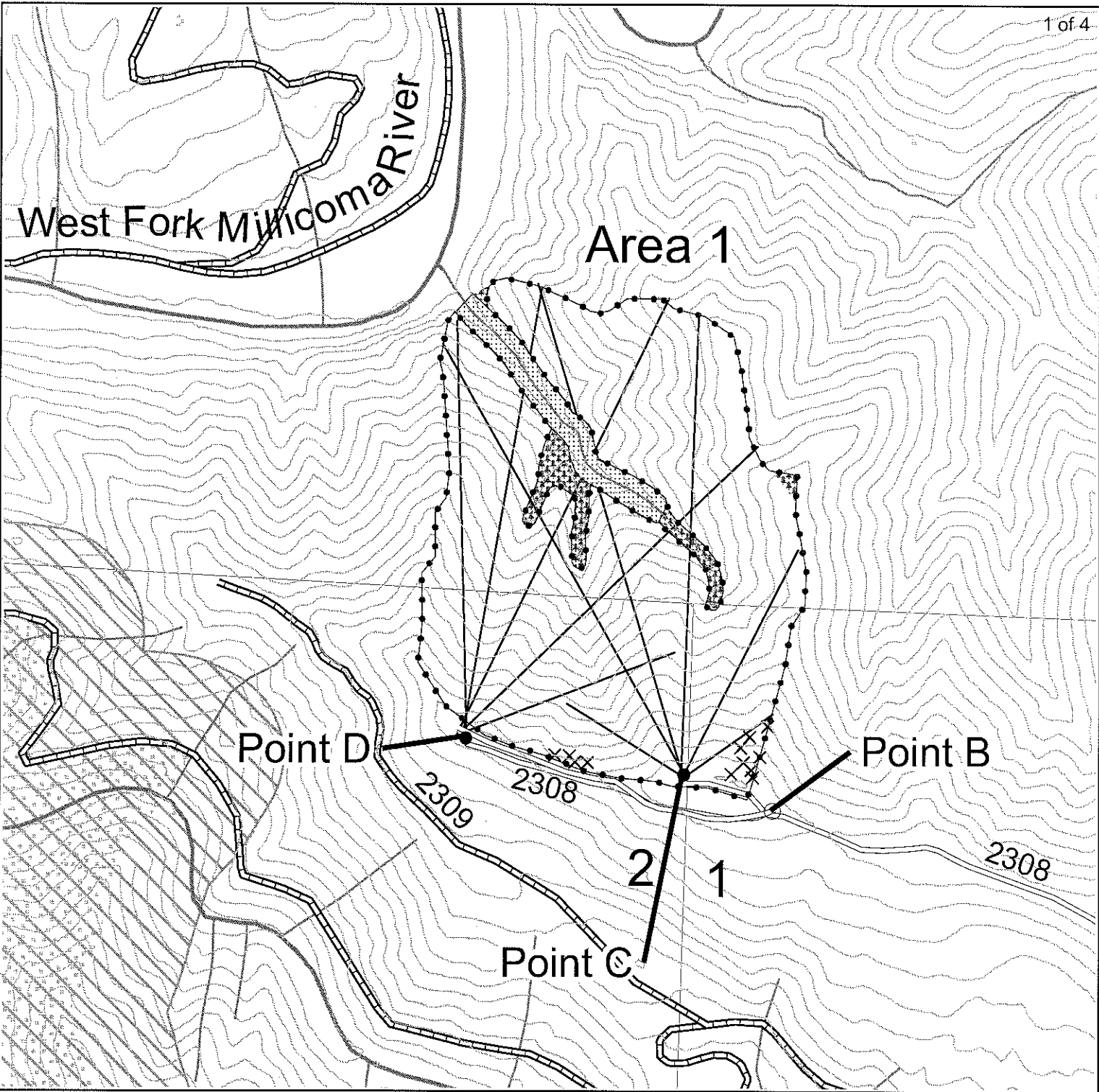
Sale Area	Coos County						Douglas County						TOTAL ACRES
	CSL			BOF			CSL			BOF			
	Conifer		Hard wood	Conifer		Hard woods	Conifer		Hard woods	Conifer		Hard woods	
	cc	pc		cc	pc		cc	pc		cc	pc		
1	43												43
2	42												42
SUM	85.0	0	0	0	0	0	0	0	0	0	0	0	85.0

cc- clearcut

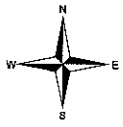
pc- partial cut

BOF - Board of Forestry

CSL - Common School Land



Timber Sale Boundary	Streams
40' Contours	Type F
Project Points	Type N Perennial
Landing	Type N Seasonal
Road Point	Individual GTR
Roads	Grouped GTR
Construct	Stream Buffer
Purchaser Maintained	Marbled Murrelet Management Area
State Maintained	Seasonal Restricted Area



**LOGGING PLAN
OF TIMBER SALE NO.
341-11-18
COMADOS**

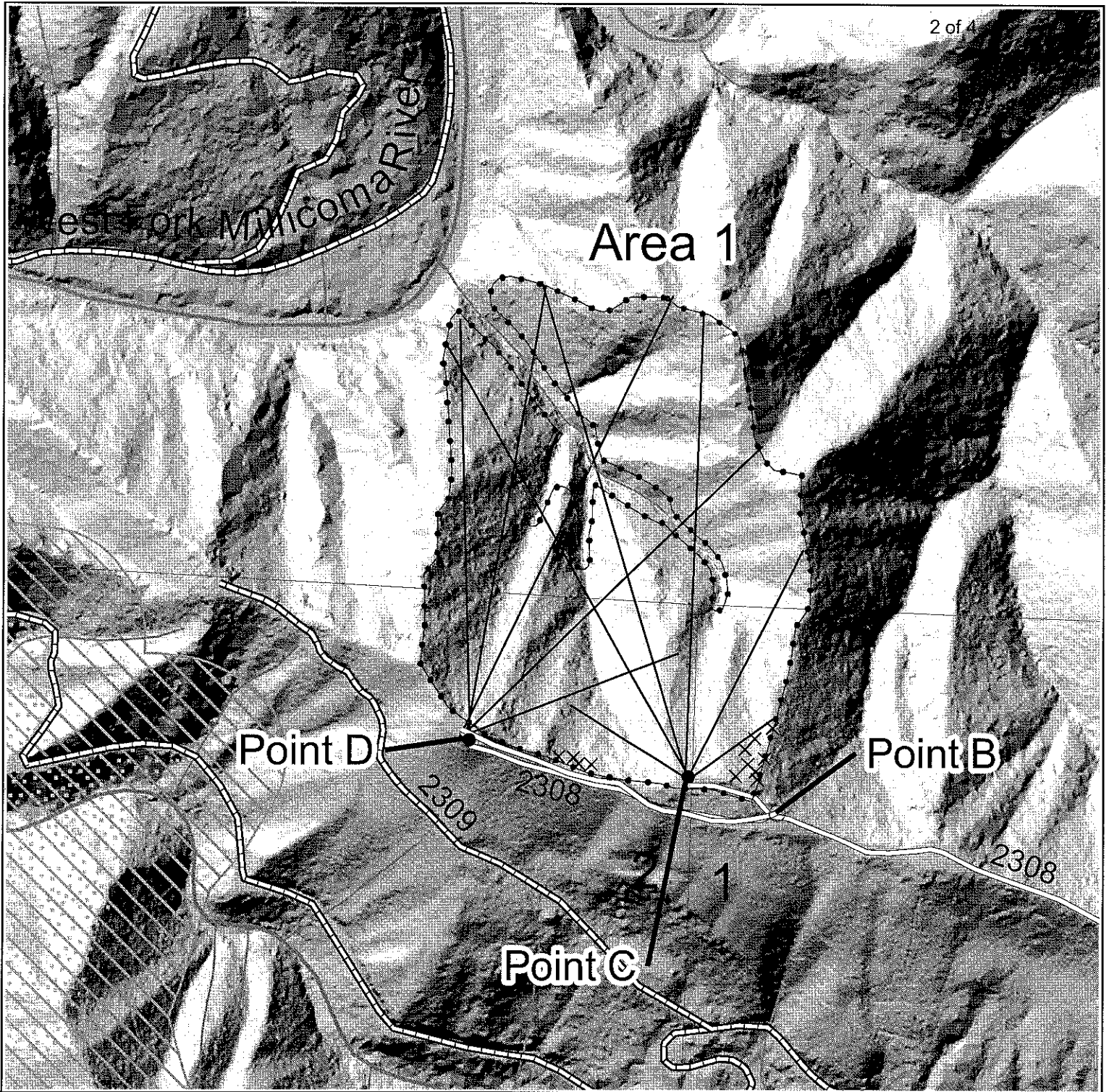
Portions of Sections 35 & 36
T23S, R11W, W.M. and
Portions of Sections 1 & 2,
T24S, R11W, W.M.
Coos County, Oregon

Sale Area	Harvest Type	Net Acres
1	clearcut	43 acres
2	clearcut	42 acres
Total - 85 harvest acres		



1:6,030
1 inch = 502.475469 feet

The information shown on this map depicts approximate locations. Exact locations of features represented by map symbols shall be determined on site and shall depend upon the conditions that exist on site. Activities will be conducted based upon features determined on site rather than features shown on this map.



Timber Sale Boundary	Streams	
Project Points	Type F	
Landing	Type N Perennial	
Road Point	Type N Seasonal	
Roads	Individual GTR	
Construct	Marbled Murrelet Management Area	
Purchaser Maintained	Seasonal Restricted Area	
State Maintained		

**LOGGING PLAN
OF TIMBER SALE NO.
341-11-18
COMADOS**

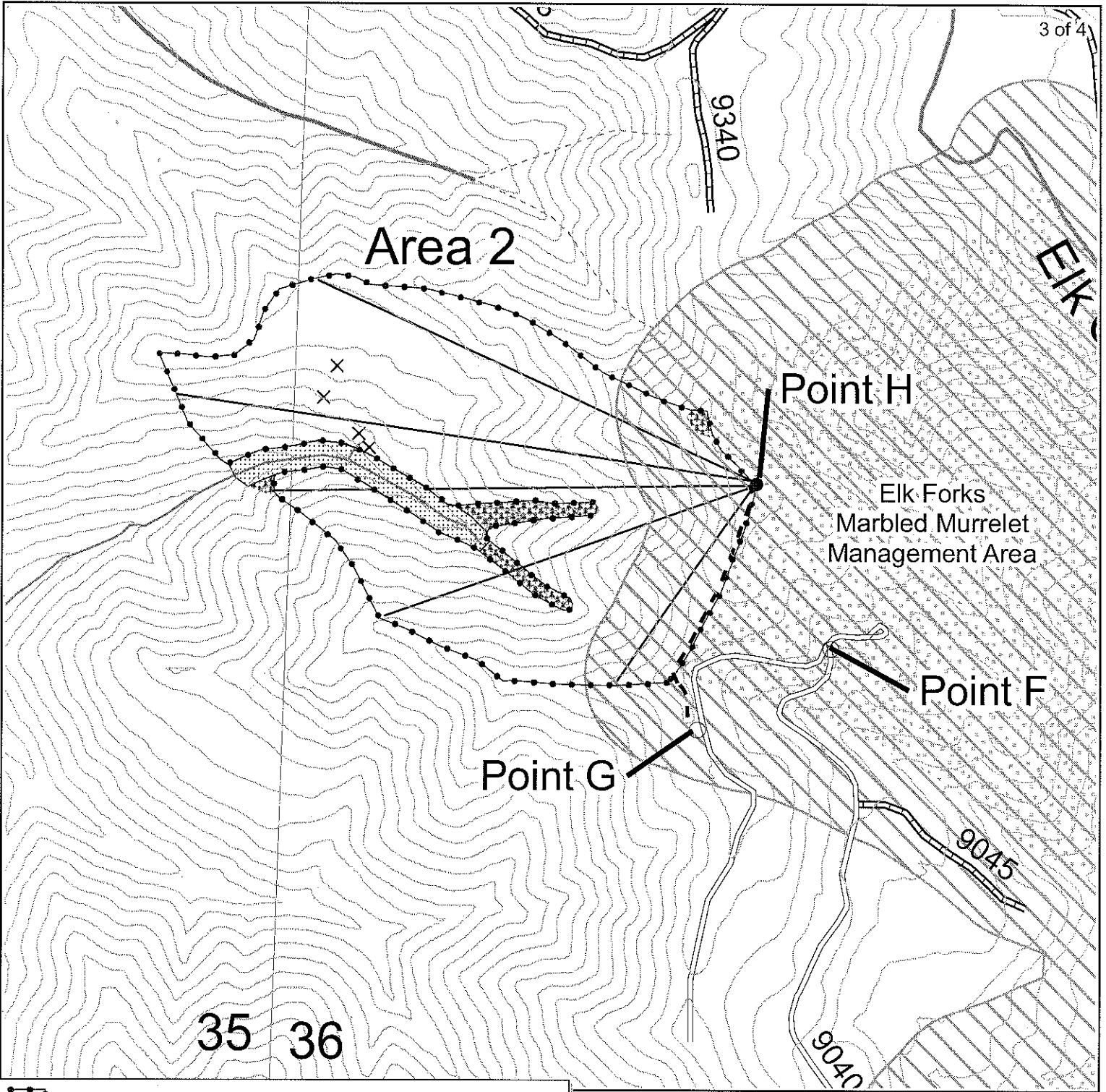
Portions of Sections 35 & 36
T23S, R11W, W.M. and
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Coos County, Oregon

Sale Area	Harvest Type	Net Acres
1	clearcut	43 acres
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Total		- 85 harvest acres

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1:6,000
1 inch = 500 feet



Timber Sale Boundary	Streams	
40' Contours	Type F	
Project Points	Type N Perennial	
Landing	Type N Seasonal	
Road Point	Individual GTR	
Roads	Grouped GTR	
Construct	Stream Buffer	
Purchaser Maintained	Marbled Murrelet Management Area	
State Maintained	Seasonal Restricted Area	

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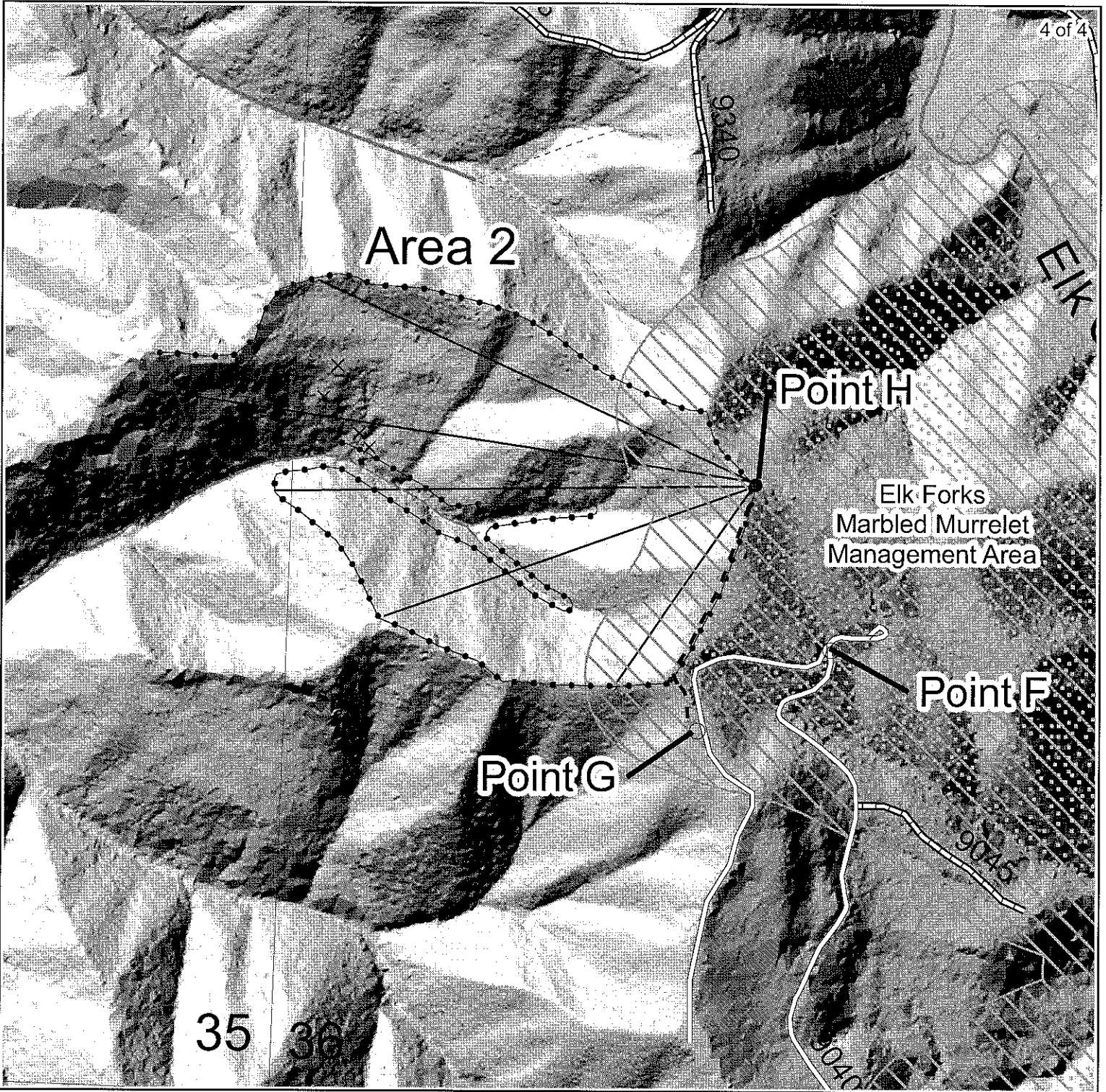
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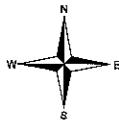


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Timber Sale Boundary	Streams	Type F
Project Points	Type N Perennial	Type N Seasonal
Landing	Individual GTR	Marbled Murrelet Management Area
Road Point	Seasonal Restricted Area	
Roads		
Construct		
Purchaser Maintained		
State Maintained		



**LOGGING PLAN
OF TIMBER SALE NO.
341-11-18
COMADOS**

Portions of Sections 35 & 36
T23S, R11W, W.M. and
Portions of Sections 1 & 2,
T24S, R11W, W.M.
Coos County, Oregon

Sale Area	Harvest Type	Net Acres
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