



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
North Buck
Sale 341-08-88

District: Coos

Date: April 11, 2008

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$1,137,696.74	\$42,006.15	\$1,179,702.89
		Project Work:	\$(75,788.00)
		Advertised Value:	\$1,103,914.89



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District: Coos

Date: April 11, 2008

timber description

Location: Portions of Sections 14, 15, 22, and 23, T23S, R11W, W.M., Coos County, Oregon.

Stand Stocking: 60%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	28	0	95
Western Hemlock / Fir	20	0	90
Red Cedar	15	0	90
Alder (Red)	15	0	85

Volume by Grade	10" - 11"	12"+	2S	3P	3S	3S 12"+	6" - 7"	8" - 9"	SM	Total
Douglas - Fir	0	0	3,048	152	305	114	0	0	190	3,809
Western Hemlock / Fir	0	0	32	0	25	0	0	0	0	57
Red Cedar	0	0	0	0	4	0	0	0	0	4
Alder (Red)	36	23	0	0	0	0	29	7	0	95
Total	36	23	3,080	152	334	114	29	7	190	3,965



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comments: Pond Values Used: 1st Quarter Calendar Year 2008.

Regeneration harvest of one unit containing approximately 63 acres of predominately 121-128 year-old mature second growth Douglas-fir saw-timber and a small component of red alder and western hemlock.

HAULING

Hauling costs equivalent to \$700 daily truck cost.

Other Costs (Profit and Risk to be added):

Directional Felling: \$2/tree x 500 trees = \$1,000

Brand & Paint Logs: \$1/MBF x 3,974 MBF = \$3,974

Loader Time for Firewood Stacking: \$75/hour x 4 hours = \$300

Cull Sorting/Slash Piling on Landings: \$125/landing x 2 landings = \$250

Tree Topping: \$100/tree x 16 trees = \$1,600

Tree Girdling (DBH): \$50/tree x 16 trees = \$800

TOTAL Other Costs (Profit and Risk to be added) = \$7,924

SPECIAL NOTE

Section 2335 - 32 snags shall be created in the timber sale area following timber sale contract specifications. For each snag fewer than 32 not required to be created, \$75 shall be paid to STATE.



"STEWARDSHIP IN FORESTRY"

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logging conditions

combination#: 1

Douglas - Fir	89.00%
Western Hemlock / Fir	89.00%
Red Cedar	89.00%
Alder (Red)	89.00%

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:** 4,900
cost / mbf: \$62.81

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

combination#: 2

Douglas - Fir	11.00%
Western Hemlock / Fir	11.00%
Red Cedar	11.00%
Alder (Red)	11.00%

yarding distance: Medium (800 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:** 4,900
cost / mbf: \$62.81

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



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District: Coos

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logging costs

Operating Seasons:	0.00	Profit Risk:	15.00%
Project Costs:	\$75,788.00	Other Costs (P/R):	\$7,924.00
Slash Disposal:	\$0.00	Other Costs:	\$0.00

Miles of Road

Road Maintenance: \$0.00

Dirt	Rock (Contractor)	Rock (State)	Paved
0.0	1.0	0.0	0.0

Hauling Costs

Species	\$ / MBF	Trips/Day	MBF / Load
Douglas - Fir	\$0.00	2.0	4.9
Western Hemlock / Fir	\$0.00	2.0	4.5
Red Cedar	\$0.00	2.0	4.0
Alder (Red)	\$0.00	2.0	3.5



Timber Sale Appraisal
North Buck
Sale 341-08-88

"STEWARDSHIP IN FORESTRY"

District: Coos

Date: April 11, 2008

logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas - Fir									
\$62.81	\$1.07	\$0.00	\$65.22	\$2.00	\$19.66	\$0.00	\$2.00	\$0.00	\$152.76
Western Hemlock / Fir									
\$62.81	\$1.12	\$0.00	\$74.39	\$2.00	\$21.05	\$0.00	\$2.00	\$0.00	\$163.37
Red Cedar									
\$62.81	\$1.12	\$0.00	\$83.70	\$2.00	\$22.44	\$0.00	\$2.00	\$0.00	\$174.07
Alder (Red)									
\$62.81	\$1.17	\$0.00	\$100.00	\$2.00	\$24.90	\$0.00	\$2.00	\$0.00	\$192.88

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$448.23	\$295.47	\$0.00
Western Hemlock / Fir	\$0.00	\$316.84	\$153.47	\$0.00
Red Cedar	\$0.00	\$1,050.00	\$875.93	\$0.00
Alder (Red)	\$0.00	\$635.05	\$442.17	\$0.00



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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	3,809	\$295.47	\$1,125,445.23
Western Hemlock / Fir	57	\$153.47	\$8,747.79
Red Cedar	4	\$875.93	\$3,503.72
Alder (Red)	95	\$442.17	\$42,006.15

Gross Timber Sale Value

Recovery: \$1,179,702.89

Prepared by: Ryan Greco

Phone: 541-267-4136

Summary of "Other Costs" for Timber Sale Appraisals

Sale Name: North Buck

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	500	\$ 2.00	\$ 1,000.00
Yarding and Loading				
Artificial tailhold	anchor		\$ 500.00	\$ -
Artificial guyline support	anchor	0	\$ 500.00	\$ -
Brand and paint logs	MBF	3974	\$ 1.00	\$ 3,974.00
Loader time for firewood stacking	Hours	4	\$ 75.00	\$ 300.00
Cull sorting/slash piling on landings	landing	2	\$ 125.00	\$ 250.00
Rig lift trees	lift tree	0	\$ 100.00	\$ -
Snag Creation				
Tree Topping	Trees	16	\$ 100.00	\$ 1,600.00
Tree Girdling (DBH)	Trees	16	\$ 50.00	\$ 800.00
Tree Girdling (Topping Height)	Trees	0	\$ 100.00	\$ -
Miscellaneous Costs				
Additional Fire Equipment	Seasons	0	\$ 1,000.00	\$ -
Maintenance rock per section 5	Cubic Yards	0	\$ 18.00	\$ -
Safety Flagging and/or signing	per day	0	\$ 150.00	\$ -
Total additional "Other Cost" with additional profit and risk to be added				\$ 7,924.00

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-quired road rocking	Cubic Yards			\$ -
Stream clearance	Feet			\$ -
Scaling (high piece count)	MBF		\$ 1.00	\$ -
Total additional "Other Cost" with no additional profit and Risk				\$ -

**SUMMARY OF CONSTRUCTION COST
North Buck**

Project 1A: Landing Construction

Points: C Length: n/a Type: n/a

Excavator	25	hrs at	\$120.00	per hour	\$3,000.00
Cat time (waste area included)	25	hrs at	\$120.00	per hour	\$3,000.00
Drill and Shoot	10	hrs at	\$250.00	per hour	\$2,500.00
Dump Truck - haul to Pt G (0.1 mi RT)	25	hrs at	\$95.00	per hour	\$2,375.00
Laborer	25	hrs at	\$30.00	per hour	\$750.00

Total Project 1A: \$11,625.00

Project 1B: Landing Construction

Points: E Length: n/a Type: n/a

Excavator	40	hrs at	\$120.00	per hour	\$4,800.00
Dump Truck - haul to Pt F (0.1 mi RT)	40	hrs at	\$95.00	per hour	\$3,800.00
Drill and Shoot	10	hrs at	\$250.00	per hour	\$2,500.00
Cat time - includes waste area prep	20	hrs at	\$120.00	per hour	\$2,400.00
Laborer	40	hrs at	\$30.00	per hour	\$1,200.00

Total Project 1B: \$14,700.00

Move-in

Equipment	Miles	hrs/RT	Lowboy Rate/hr	Total
Excavator	35	3.5	\$95.00	\$332.50
Cat	35	3.5	\$95.00	\$332.50
Grader	35	3.5	\$95.00	\$332.50
Drill & Comp	35	3.5	\$95.00	\$332.50
Dump Truck	35	3.5	\$95.00	\$332.50

Total Move-in: \$1,663.00

Project 1 Total \$27,988.00

Project 2A: Road Improvement

Points: A to B Length: 2730' Type: 14' w/ ditch

Grader time	2	hrs at	\$75.00	per hour	\$150.00
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Total Project 2A: \$150.00

Project 2B: Road Improvement

Points: B Length: n/a Type: 14' w/ ditch

Excavator	5	hrs at	\$120.00	per hour	\$600.00
Cat time	5	hrs at	\$120.00	per hour	\$600.00
Drill and Shoot	2	hrs at	\$250.00	per hour	\$500.00
Laborer	5	hrs at	\$30.00	per hour	\$150.00

Total Project 2B: \$1,850.00

**SUMMARY OF CONSTRUCTION COST
North Buck**

Project 2C: Road Improvement

Points: B to C Length: 880' Type: 14' no ditch

Excavator - remove slides, cutbank sl. and pullback	5	hrs at	\$120.00	per hour	\$600.00
Dump Truck to haul material to Pt G	5	hrs at	\$95.00	per hour	\$475.00
Cat time	5	hrs at	\$120.00	per hour	\$600.00
Grader time	2	hrs at	\$75.00	per hour	\$150.00
Laborer	5	hrs at	\$30.00	per hour	\$150.00

Total Project 2C: \$1,975.00

Project 2D: Road Improvement

Points: H to I Length: 2185' Type: 14' no ditch

Excavator - remove slide material, brush	20	hrs at	\$120.00	per hour	\$2,400.00
Dump Truck to haul material	10	hrs at	\$95.00	per hour	\$950.00
Cat time - spread material in roadbed	10	hrs at	\$120.00	per hour	\$1,200.00

Total Project 2D: \$4,550.00

Project 2E: Road Improvement - Complete after Logging

Points: C to D Length: 1590' Type: 14' no ditch

Excavator - pullback and road cleanup	20	hrs at	\$120.00	per hour	\$2,400.00
Dump Truck to haul material to Pt G	20	hrs at	\$95.00	per hour	\$1,900.00
Cat time	20	hrs at	\$120.00	per hour	\$2,400.00
Laborer	20	hrs at	\$30.00	per hour	\$600.00
Install 18" culverts	100	ft at	\$17.00	per ft	\$1,700.00
18" bands	3	bands at	\$19.00	per band	\$57.00

Move-In

Equipment	Miles	hrs/RT	Lowboy Rate/hr	Total
Excavator	35	3.5	\$95.00	\$332.50
Cat	35	3.5	\$95.00	\$332.50
Dump Truck	35	3.5	\$95.00	\$332.50

Total Move-in: \$998.00

Total Project 2E: \$10,055.00

Project 2 Total \$18,580.00

SUMMARY OF CONSTRUCTION COST
North Buck

Project 3: Elk Creek Rock Stockpile

Location: 9000/8000 road junction
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 (2.5 hrs RT):	\$11.11	per yd
Piling and shaping cost per cu yd:	\$1.00	per yd

Total cost per cu yd:	\$24.35	per yd
Total cu yds:	1200	yards

Total Cost for Stockpile rock: \$29,220.00

Project 3 Total \$29,220.00

Total Project Costs \$75,788.00

TIMBER SALE SUMMARY

North Buck

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 one unit totaling 63 acres. Sale acreage was determined from electronic digitizing using the ArcMap 9 GIS program. Interior road acres were accounted for by including in 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	4%	5%	80%	8%	3%	
Hemlock			57%	43%		
		12"+	10-11"	8-9"	6-7"	
Hardwoods		24%	38%	7%	31%	

7. Cruise: North Buck was variable plot cruised using a nested Big BAF plot method. 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 292 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 58 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 73 count plots were measured. Cruising was done in December 2007 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	62%	7.86%

B. Stand Data:

SPECIES	DBH	TREES/ACRE	BASAL AREA/AC	NET MBF/ACRE
Douglas Fir	28	56	239	60
Hemlock	20	2	5.8	1
Hardwoods	15	15	19	2
Cedar	15	0.7	0.9	<1

C. Green Tree Retention: Reserve areas consist of stream buffer extensions and trees left along seasonal and perennial drainages. The table below summarizes reserve trees whose volume has been removed from the cruise. Several trees in the northwest corner of the sale are residual topped snags remaining from an adjacent timber sale. These Stream buffers and GTR areas are mapped in Exhibit "A."

Sale Area	Douglas fir - MBF	Hemlock MBF	Hardwood MBF
1	116.5	0.2	0.9

8. Timber Description: Timber in the sale area is stocked with mature 121 to 128 year-old Douglas-fir sawtimber with minor amounts of western hemlock, red cedar and red alder. Timber quality is good.

9. Topography: The majority of this timber sale has a southerly aspect with minor areas having east or west aspects. Terrain is typically steep with some benchy areas in the southwest corner. The timber sale is bordered by the 2470 road to the north, a recent clearcut to the west, Buck Creek to the south, and reproduction to the east. Locations of stream buffers and green tree retention areas are indicated on the Exhibit "A".

10. Logging Method: All areas are designed for cable logging. 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 will be maintained where possible over the remainder of the sale. Single end suspension will be utilized where full suspension is not possible. All areas are intended for dry season operation. Purchaser must comply with winter and wet weather option if operations are conducted during the wet season. The sale has been designed to be logged from two landings situated on or near the 2470 road. Roads and landings are indicated on the Exhibit "A".

11. Access: From Coos Bay, proceed north on Highway 101 to Lakeside, turn east and follow North Lake Road to the 4000 road (Benson Ridge). Follow the 4000 road east to the 4900 and proceed south on the 2000 road for approximately 2 miles to the 2470. Head east on the 2470 until you are inside the timber sale area.

12. Projects:

Project 1: Landing Construction

Project 2: Road Improvement

Project 3: Elk Creek Rock Stockpile

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		3809		3809			0	3809	60
	Hdwd		95		95			0	95	2
	WH		57		57			0	57	1
	RC		4		4			0	4	<1

TOTAL SALE VOLUME BY SPECIES

Douglas-fir	3809	MBF
Hemlock	57	MBF
Hardwoods	95	MBF
Red Cedar	4	MBF
Total	3965	MBF

Report by: Ryan Greco

Date: 03/13/2008

Unit For. Stone Hill 3.20.2008
Date

Asst. Dist. For. Greg Krueger 3.20.2008
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 cc	Conifer pc	Hard wood	Conifer cc	Conifer pc	Hard woods	Conifer cc	Conifer pc	Hard woods	Conifer cc	Conifer pc	Hard woods		
1	63													63
SUM	63.0	0	0	0	0	0	0	0	0	0	0	0	0	63.0

cc- clearcut

pc- partial cut

BOF - Board of Forestry

CSL - Common School Land

MAKE A "SAVE AS" COPY OF THIS WORKSHEET TO DO YOUR WORK ON
 DO NOT OVERWRITE THIS MASTER SHEET UNDER PENALTY OF DEATH!!
 CHECK CELLS WITH AN "*" FOR NOTES VIA "WINDOW, SHOW INFO" OPTION
 RETURN TO DOCUMENT VIA "WINDOW, SHOW DOCUMENT" OPTION.
 DELETE UNUSED ROWS FOR FINAL PRODUCT

CRUISE VOLUME COMPUTATION REPORT

SALE NAME: North Buck DATE: 03/12/2008
 LEGAL LOCATION: Sections 14, 15, 22, 23, T23S, R11W, WM Coos Cr BY: Ryan Greco

CRUISE - NET

SPECIES>> AREA	Doug-fir	Hemlock	Hardwds	Cedar	TOTAL BY AREA
Gross	4717	65.2	113.7	5.5	4901
Less Cruise Vbar	217.0	0.0	1.4	0.0	218
Less Down Wood	5.0	2.0	2.0	1.0	10
Less GTR Vol.	116.5	0.2	0.7	0.5	118
CruiseNet	4378	63	110	4	4555

DEFECT AND BREAKAGE

ALL AREAS

Species	Doug-fir	Hemlock	Hardwds	Cedar
Hidden cull	0.08	0.06	0.08	0.08
Breakage	0.05	0.04	0.05	0.04
Total Defect %	0.13	0.10	0.13	0.12

NET VOLUME BY MBF

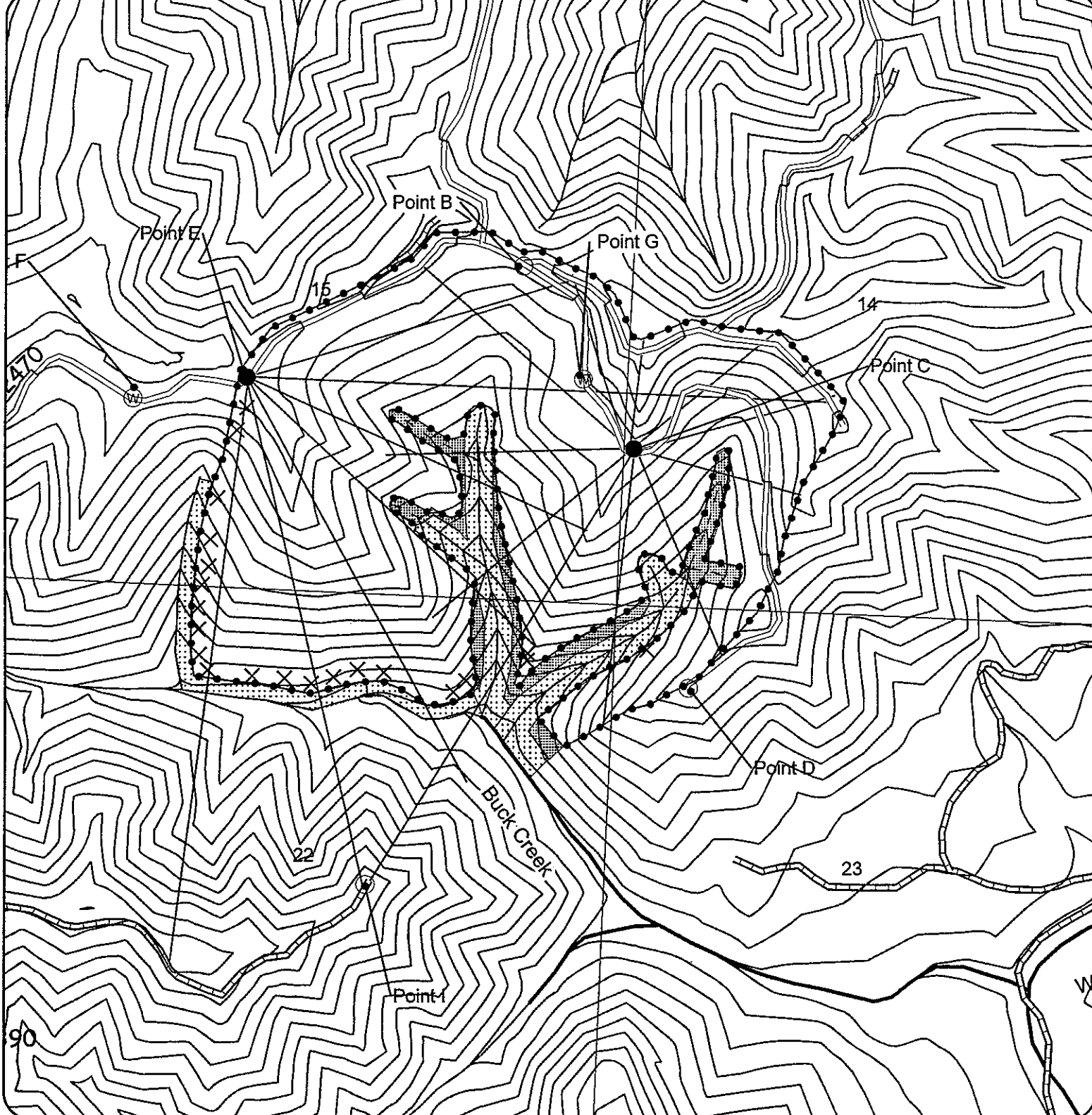
PECIES AREA	Doug-fir	Hemlock	Hardwds	Cedar	TOTALS BY AREA
1	3809	57	95	4	3965
TOTALS	3809	57	95	4	3965

NET VOLUME BY GRADE AND MBF *

Grade >>>>>>>>>>	3 PEE	SM	2 SAW	3 SAW	Big 3 SAW	4 SAW/CR	
Area	Species						
	Doug-Fir	152	190	3048	305	114	0
	Hemlock	0	0	32	25	0	0
	Cedar	0	0	0	4	0	0
	Hardwoods	0	12"+	10-11"	8-9"	6-7"	0
		0	23	36	7	29	

GRADE DISTRIBUTION BY PERCENT

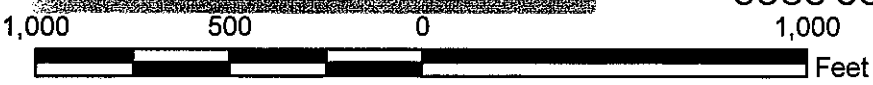
Grade >>>>>>>>>>	3 PEE	SM	2 SAW	3 SAW	Big 3 SAW	4 SAW
Doug-fir	4%	5%	80%	8%	3%	0.0%
Hemlock	0%	0%	57%	43%	0%	0%
Cedar	0%	0%	0%	100%	0%	0%
Hardwoods	0%	12"+	10-11"	8-9"	6-7"	
	0%	24%	38%	7%	31%	



Sale Boundary	Type F Perennial
40' Contours	Type N Perennial
Landing	Type N Seasonal
Road Point	Individual Green Trees
Waste Area	Stream Buffer
Purchaser Maintained	Green Tree Retention Areas
State Maintained	

LOGGING PLAN
 OF TIMBER SALE NO.
 341-08-88
 NORTH BUCK
 PORTIONS OF SECTIONS
 14, 15, 22, 23
 T23S, R11W, W.M.
 COOS COUNTY, OREGON

Approx. 63 net acres



1 inch equals 500 feet 1:6,000

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.