



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Stulls Ridge No. 3
Sale 341-10-31

District: Coos

Date: September 08, 2009

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$1,249,339.26	\$0.00	\$1,249,339.26
		Project Work:	\$(106,533.00)
		Advertised Value:	\$1,142,806.26



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timber description

Location: Portions of Sections 3 & 10, T24S, R11W, W.M., Coos County, Oregon.

Stand Stocking: 80%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	27	0	95
Western Hemlock / Fir	20	0	95

Volume by Grade	2S	3P and B	3S	3S 12"+	SM	Total
Douglas - Fir	3,807	108	506	538	419	5,378
Western Hemlock / Fir	16	0	11	0	0	27
Total	3,823	108	517	538	419	5,405



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comments: Pond Values Used: 2nd Quarter Calendar Year 2009.

Regeneration harvest of approximately 101 acres of 119 year-old predominately Douglas-fir sawtimber.

Western Red Cedar Stumpage Price = Pond Value minus Logging Cost
 $\$582.72/\text{MBF} = \$710/\text{MBF} - \$127.28/\text{MBF}$

Red Alder Stumpage Price = Pond Value minus Logging Cost
 $\$222.72/\text{MBF} = \$350/\text{MBF} - \$127.28/\text{MBF}$

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: 411 trees @ \$2/each = \$822

YARDING & LOADING

Artificial Guyline Supports: 3 anchors @ \$500/each = \$1,500

Brand and Paint Logs: 1\$/MBF x 5,405 MBF = \$5,405

Loader Time for Firewood Stacking: 8 hours @ \$75/hour = \$600

SNAG CREATION

Tree Topping: 26 trees @ \$100/each = \$2,600

Tree Girdling: 25 trees @ \$20/each = \$500

TOTAL Other Costs (with Profit & Risk to be added) = \$11,427

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

None.



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logging conditions

combination#: 1	Douglas - Fir	100.00%	
	Western Hemlock / Fir	100.00%	
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:	5,000
cost / mbf:	\$61.56		
machines:	Log Loader (A) Tower Yarder (Large)		



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logging costs

Operating Seasons:	1.00	Profit Risk:	10.00%
Project Costs:	\$106,533.00	Other Costs (P/R):	\$11,427.00
Slash Disposal:	\$0.00	Other Costs:	\$0.00

Miles of Road

Road Maintenance: \$0.00

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

Hauling Costs

Species	\$ / MBF	Trips/Day	MBF / Load
Douglas - Fir	\$0.00	3.0	5.0
Western Hemlock / Fir	\$0.00	2.0	4.0

Local Pond Values

Date	Specie	Grade	Value
7/1/09	Douglas - Fir	2S	\$390.00



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logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas - Fir									
\$61.56	\$2.14	\$0.81	\$44.54	\$2.11	\$11.12	\$0.00	\$5.00	\$0.00	\$127.28
Western Hemlock / Fir									
\$61.56	\$2.14	\$0.81	\$83.52	\$2.11	\$15.01	\$0.00	\$5.00	\$0.00	\$170.15

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$359.18	\$231.90	\$0.00
Western Hemlock / Fir	\$0.00	\$250.93	\$80.78	\$0.00



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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

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	5,378	\$231.90	\$1,247,158.20
Western Hemlock / Fir	27	\$80.78	\$2,181.06

Gross Timber Sale Value

Recovery: \$1,249,339.26

Prepared by: Norma Kline

Phone: 541-267-1759

SUMMARY OF CONSTRUCTION COST
Stulls Ridge No. 3

Project 1A: Road and Landing Construction

Points: D to E Length: 1220' Type: 14' no ditch
(includes landing at F)

Excavator	30	hrs at	\$125.00	per hour	\$3,750.00
Cat time	30	hrs at	\$120.00	per hour	\$3,600.00
Grader	2	hrs at	\$75.00	per hour	\$150.00
Laborer	30	hrs at	\$35.00	per hour	\$1,050.00

Total Project 1A: \$8,550.00

Project 1B: Road and Landing Construction

Points: G to H Length: 540' Type: 14' no ditch

Excavator	15	hrs at	\$125.00	per hour	\$1,875.00
Cat time	15	hrs at	\$120.00	per hour	\$1,800.00
Grader	1	hrs at	\$75.00	per hour	\$75.00
Laborer	15	hrs at	\$35.00	per hour	\$525.00

Total Project 1B: \$4,275.00

Project 1C: Landing Construction

Points: I Length: n/a Type: n/a

Excavator	40	hrs at	\$125.00	per hour	\$5,000.00
Cat time (includes waste area time)	20	hrs at	\$120.00	per hour	\$2,400.00
Drill & Shoot	10	hrs at	\$250.00	per hour	\$2,500.00
Dump Truck - haul to Points C to D	40	hrs at	\$95.00	per hour	\$3,800.00
Laborer	40	hrs at	\$35.00	per hour	\$1,400.00

Total Project 1C: \$15,100.00

Move-in

Equipment	Miles	hrs/RT	Lowboy Rate/hr	Walk-in time	Walk-in Rate	Total
Excavator	35	5	\$95.00	1	\$125.00	\$600.00
Cat	35	5	\$95.00	1	\$120.00	\$595.00
Drill & Comp	35	5	\$95.00	1	\$95.00	\$570.00
Grader	35	4	\$95.00			\$380.00
Dump Truck	35	4	\$95.00			\$380.00

Total Move-in: \$2,525.00

Project 1 Total \$30,450.00

Project 2A: Road Improvement

Points: A to B Length: 250' Type: 14' w/ditch

Excavator	5	hrs at	\$125.00	per hour	\$625.00
Cat time	5	hrs at	\$120.00	per hour	\$600.00
Dump Truck - haul to Point K	5	hrs at	\$95.00	per hour	\$475.00
Grader time	1	hrs at	\$75.00	per hour	\$75.00

Total Project 2A: \$1,775.00

SUMMARY OF CONSTRUCTION COST
Stulls Ridge No. 3

Project 2B: Road Improvement

Points: C to D Length: 1580' Type: 14' no ditch

Excavator	5	hrs at	\$125.00	per hour	\$625.00
Cat time	10	hrs at	\$120.00	per hour	\$1,200.00
Grader time	2	hrs at	\$75.00	per hour	\$150.00
Laborer	10	hrs at	\$35.00	per hour	\$350.00

Total Project 2B: \$2,325.00

Project 2 Total \$4,100.00

Project 3: Road Widening and Sidecast Pullback

Points: B to C Length: 3650' Type: 14' w/ditch

Excavator - pickup slough, pullback & widen	30	hrs at	\$125.00	per hour	\$3,750.00
Cat time	15	hrs at	\$120.00	per hour	\$1,800.00
Dump Truck - haul to Pts C and K	30	hrs at	\$95.00	per hour	\$2,850.00
Drill & Shoot	30	hrs at	\$250.00	per hour	\$7,500.00
Grader time	3	hrs at	\$75.00	per hour	\$225.00
Laborer	30	hrs at	\$35.00	per hour	\$1,050.00

Project 3 Total \$17,175.00

Project 4: Fill Removal and Sidecast Pullback

Points: D to J Length: 980' Type: 14' no ditch

Excavator - remove fill and pullback	20	hrs at	\$125.00	per hour	\$2,500.00
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Project 4 Total \$2,500.00

Project 5A: Rock Stockpile

Location: Trail Butte (2000/3000 jct)
 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 (1.5 hr RT):	\$6.67	per yd
Piling and shaping cost per cu yd:	\$2.00	per yd
Total cost per cu yd:	\$20.91	per yd
Total cu yds:	1200	yards

Total Cost for Stockpile rock: \$25,092.00

Total Project 5A: \$25,092.00

SUMMARY OF CONSTRUCTION COST
Stulls Ridge No. 3

Project 5B: Rock Stockpile

Location: Dry Ridge (7.5 mi on 2000 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 (1.9 hr RT):	\$8.44	per yd
Piling and shaping cost per cu yd:	\$2.00	per yd
Total cost per cu yd:	\$22.68	per yd
Total cu yds:	1200	yards

Total Cost for Stockpile rock: \$27,216.00

Total Project 5B: \$27,216.00

Project 5 Total \$52,308.00

Total Project Costs \$106,533.00

TIMBER SALE SUMMARY

Stulls Ridge No. 3

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 paint, and red flagging at locations shown on the Exhibit A.
3. **Revenue Distribution:** 100% CSL; 100% Coos County.
4. **Sale Acreage:** The total sale area is 101 acres. Buffers areas are posted outside the sale area and are not included in the net acreage calculation. The acreage was determined using orthophoto imagery on the ARCMAP Geographic Information System program.
5. **Volume by Species, Fund, and County:** See attached table.
6. **Grade by Percent:**

Species	3 Peeler	SM	2 Saw (12"+)	3Saw (12"+)	3 Saw (10-11")	4 Saw (8-9")	(6-7")
Douglas-fir	2%	8%	71%	10%	9%	-----	-----
W Hemlock	-----	-----	58%	-----	42%	-----	-----
Hardwood	-----	-----	-----	-----	-----	-----	-----

7. **Cruise:** The unit was variable plot cruised using the Big BAF cruise design, which consisted of 83 nested plots. For the mature stand each plot consists of both a full 40 BAF count plot and a full 360 BAF measure plot. The 40 BAF plot was used to tally the number of trees by species to determine the stand basal area. The 40 BAF plot was then used to select hardwoods and minor species to cruise and the 360 BAF plot to select Douglas-fir trees to cruise. Selected trees were cruised for diameter at breast height, height, grade and defect. Fifty two Douglas-fir Big BAF trees were cruised for diameter, height, grade and defect. The cruise was analyzed using the SuperACE cruising program.

A. Cruise Summary Data:

Diameter	Top Diameter	Form Point	Form Factor	CV %	SE %
D4H	Total Height	Conifer: 16' Hardwood: 16'	Estimated or measured on all trees	49.8	6.87

B. Stand Summary:

Species	D4H	Trees per Acre	Basal Area (ft ² /ac)	Net BF per acre
Douglas-fir	27.3	15	250	53,250
Hemlock	20	2	4	270
Hardwood	-----	-----	-----	-----

C. Green Tree Retention Summary: The following tree counts and tree volumes were marked for retention within the cruised portion of the sale Area. The tree volumes were deleted from the cruise results.

8. Timber Description: The timber sale is moderately stocked single age stand that is predominantly second growth Douglas-fir. It is composed of approximately 119 year-old Douglas-fir of good quality with a minor component of western hemlock. There is a small component of western red cedar, red alder and other hard woods associated with riparian areas that volume was too low to add into cruise. Conifers range from 100 to 208 feet tall (Ave ht. 147 ft) while hardwoods are about 76 feet in height.

9. Topography: The stand ranges from mild slopes of about 12% in the center part of the sale area with steep slopes of over 80% near the stream buffers and southern edge of sale area.

10. Logging Method: The sale will be cable logged uphill with single-end suspension over the unit; full suspension will be required over designated streams and RMAs. A motorized carriage will be required to obtain the necessary suspension.

11. Access: From Coos Bay, take the Coos River Highway 14 miles to Allegany; turn northward on the West Fork Millicoma County Road (#47) and drive 5 miles to the 2000 Road. Turn north onto the 2000 road and drive 6 miles up the 2000 Road to the 2175 road on the right. Worksite at end of the 2175 road (Driving access will end at landing where remains of burnt slash pile are blocking pickup traffic, proceed on foot or ATV).

12. Projects:

Project No. 1: Road and Landing Construction

Project No. 2: Road and Landing Improvement

Project No. 3: Conduct Sidecast Pullback

Project No. 4: Conduct Fill Removal and Sidecast Pullback

Project No. 5: Rock Stock Pile

CRUISE VOLUME COMPUTATION REPORT

SALE NAME: Stulls Ridge No. 3
 LEGAL LOCATION: T24S, R11W Sec. 3&10

05/19/2009
 Matthew L. Wells

CRUISE NET VOLUME MBF

SPECIES>>	Doug-fir	Hemlock	Red Cedar	Sitka Spruce	Hardwds	TOTAL
AREA	BY AREA					
GROSS	7087	33	0	0	0	7,120
Less GTR Vol.	1	0	0	0	0	1
Fish Logs	0	0	0	0	0	0
Less DWD Vol.	10	1	0	0	0	11
TOTAL	7076	32	0	0	0	7108

DEFECT AND BREAKAGE

Species	Doug-fir	Hemlock	Red Cedar	Sitka Spruce	Hardwds
CRUISE CULL	0.02				
Hidden cull	0.14	0.09	0.09	0.09	0.1
Breakage	0.08	0.07	0.07	0.07	0.07
Total	0.24	0.16	0.16	0.16	0.17

NET VOLUME BY MBF BY AREA

SPECIES	Doug-fir	Hemlock	Red Cedar	Sitka Spruce	Hardwds	TOTALS
AREA	BY AREA					
I	5378	27	0	0	0	5405
TOTALS	5378	27	0	0	0	5405

NET VOLUME BY GRADE AND MBF

Grade >>>>>>>>>	2 PEE	3 PEE	SM	2SAW(12"+)	3SAW(12"+)	3SAW(10-11")	4SAW(8-9") (RA)	(6-7") (RA)
AREA I	Species							
Doug-Fir	0	108	419	3807	538	506	0	0
Hardwood	0	0	0	0	0	0	0	0
Red Cedar	0	0	0	0	0	0	0	0
Hemlock	0	0	0	16	0	11	0	0
Sitka Spruce	0	0	0	0	0	0	0	0

GRADE DISTRIBUTION BY PERCENT

Grade >>>>>>>>>	2 PEE	3 PEE	SM	2SAW(12"+)	3SAW(12"+)	3SAW(10-11")	4SAW(8-9") (RA)	(6-7") (RA)
Doug-fir	0%	2%	8%	71%	10%	9%	0%	0%
Hardwood	0%	0%	0%	0%	0%	0%	0%	0%
Red Cedar	0%	0%	0%	0%	0%	0%	0%	0%
Hemlock	0%	0%	0%	58%	0%	42%	0%	0%
Sitka Spruce	0%	0%	0%	0%	0%	0%	0%	0%

Hard wired (no equation)

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			
I	D-fir	5378		5378	0		0	5378	53.25	
	Hdwd	0		0	0		0	0	0.00	
	Cedar			0	0		0	0	0.00	
	Spruce			0	0		0	0	0.00	
	Hemlock	27		27	0		0	27	0.27	
TOTALS			5404.6	0	5405	0	0	0	5405	

TOTAL SALE VOLUME BY SPECIES

Douglas-fir	<u>5378</u>	MBF
Hemlock	<u>27</u>	MBF
Cedar	<u>0</u>	MBF
Spruce	<u>0</u>	
Hardwoods	<u>0</u>	MBF
Total	<u>5405</u>	MBF

Report by: Stulls Ridge No. 3

Date: 04/09/2009

Unit For. Norm Shio 6/4/09
Date

Asst. Dist. For. Greg Kreininger 5.29.2009
Date

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

ACREAGE BY COUNTY (to nearest acre)

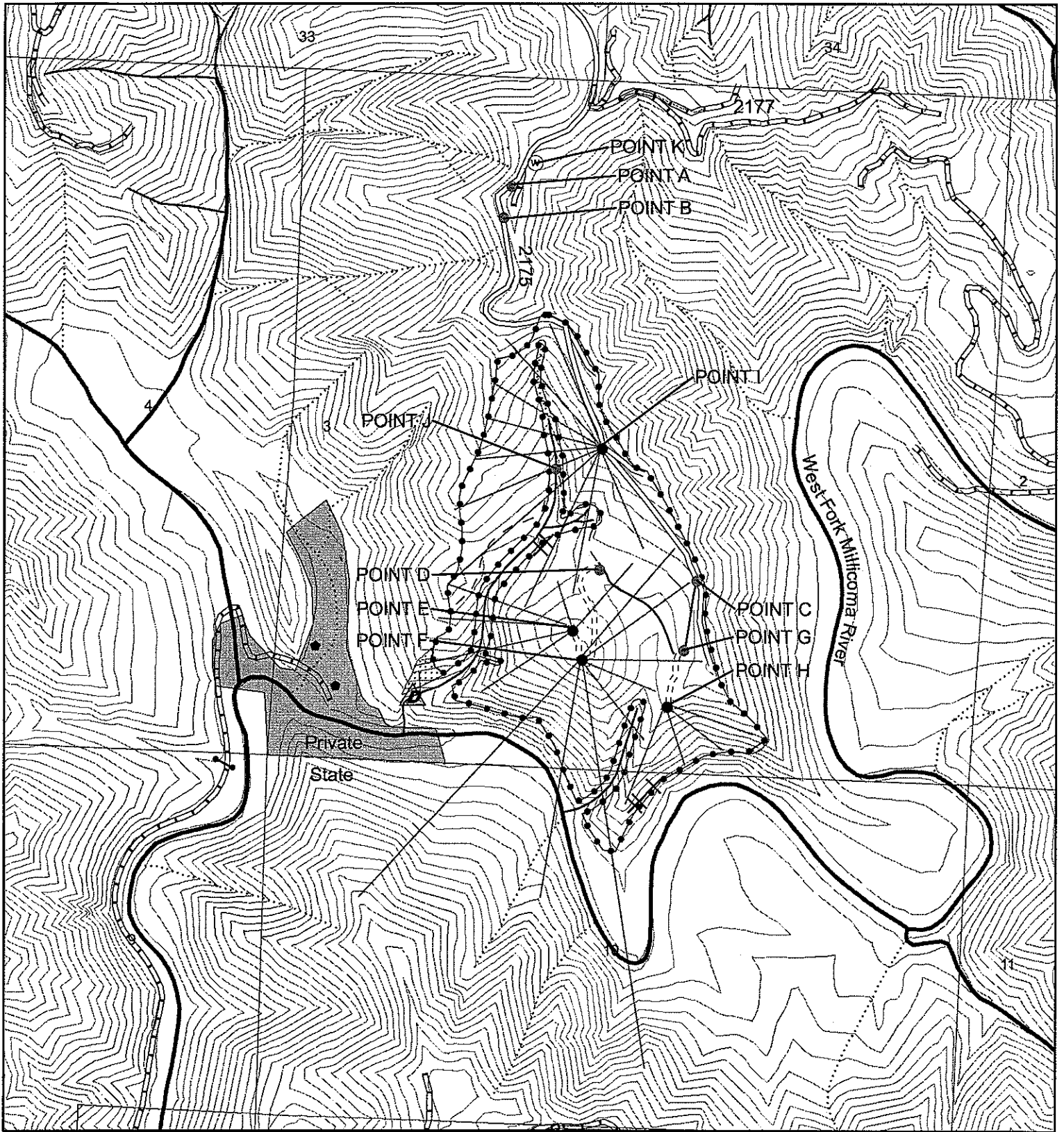
Sale Area	Coos County						Douglas County						TOTAL ACRES
	CSL			BOF			CSL			BOF			
	Conifer cc	Conifer pc	Hard wood	Conifer cc	Conifer pc	Hard woods	Conifer cc	Conifer pc	Hard woods	Conifer cc	Conifer pc	Hard woods	
I	101												101
													0
													0
													0
SUM	101	0	0	0	0	0	0	0	0	0	0	0	101

cc- clearcut

pc- partial cut

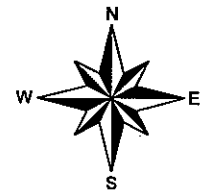
BOF - Board of Forestry

CSL - Common School Land



- ◆ Buildings
- ▲ Domestic Water Source
- ⊠ Sale Boundary
- ⊗ Individual GTR
- Streams
 - Type F
 - Type N Perennial
 - ⋯ Type N Seasonal
 - Perennial Seep
- Roads
 - - - New Construction
 - Reconstruction
 - - - Old Road Bed
 - Purchaser Maintained
 - State Maintained
 - ⊠ Green Tree Retention Areas
 - 40 ft Countours
 - ⊠ Gate

Logging Plan
 OF TIMBER SALE No.
 341-10-31
 PORTIONS OF SECTION 3 & 10
 T24S, R11W, W.M
 COOS COUNTY, OR
 APPROXIMATELY 101 NET HARVEST ACRES



Coos District GIS
 02/24/2009



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.