



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Wakefield
Sale 341-09-58

District: Tillamook

Date: May 06, 2009

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$195,822.03	\$6,349.84	\$202,171.87
		Project Work:	\$(58,820.00)
		Advertised Value:	\$143,351.87



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timber description

Location: Portions of Sections 6 & 7, T3N, R8W, W.M., Tillamook County, Oregon.

Stand Stocking: 60%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	20	0	97
Western Hemlock / Fir	15	0	97
Alder (Red)	16	0	97

Volume by Grade	2S	3S	4S	8" - 9"	Total
Douglas - Fir	1,149	642	82	0	1,873
Western Hemlock / Fir	218	203	59	0	480
Alder (Red)	0	0	0	56	56
Total	1,367	845	141	56	2,409



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comments: Pond Values Used: 1st Quarter Calendar Year 2009 + Local Pond Values for Red Alder.

Western Red Cedar Stumpage Price = Pond Value minus Logging Cost
 $\$502/\text{MBF} = \$720/\text{MBF} - \$218/\text{MBF}$

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):

Brand and Paint: $\$2/\text{MBF} \times 2,409 \text{ MBF} = \$4,818$

TOTAL Other Costs (with Profit and Risk to be added) = \$4,818

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

None.

ROAD MAINTENANCE

Interim Maintenance $\$250/\text{Mile} \times 5.4 \text{ miles} \times 1 \text{ grading}/2,409 \text{ MBF} = \$0.56/\text{MBF}$

Maintenance Rock $(\$7.30/\text{cu. yd.} \times 5.4 \text{ miles} \times 25 \text{ cu. yd./MMBF/mile} \times 2.2 \text{ MMBF})/2,409 \text{ MBF} = \$0.90/\text{MBF}$

Final maintenance

Grading $-\$500/\text{Mile} \times 5.4 \text{ miles} \times 1 \text{ grading}/2,409 \text{ MBF} = \$1.12/\text{MBF}$

Compaction - $(276 \text{ stations} \times \$11/\text{Sta} + \$111 \text{ move-in})/2409 = \1.31

TOTAL Maintenance Cost = \$3.89/MBF



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logging conditions

combination#: 1 Douglas - Fir 70.00%
 Western Hemlock / Fir 70.00%
 Alder (Red) 70.00%

yarding distance: Medium (800 ft) **downhill yarding:** No
logging system: Cable; Medium Tower >40 - <70 **Process:** Stroke Delimber
tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF
loads / day: 8.3 **bd. ft / load:** 3,950
cost / mbf: \$102.00

machines: Log Loader (A)
 Stroke Delimber (A)
 Tower Yarder (Medium)

combination#: 2 Douglas - Fir 30.00%
 Western Hemlock / Fir 30.00%
 Alder (Red) 30.00%

yarding distance: Medium (800 ft) **downhill yarding:** No
logging system: Cable; Medium Tower >40 - <70 **Process:** Stroke Delimber
tree size: Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF
loads / day: 4.2 **bd. ft / load:** 3,994
cost / mbf: \$199.35

machines: Log Loader (A)
 Stroke Delimber (A)
 Tower Yarder (Medium)



"STEWARDSHIP IN FORESTRY"

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Wakefield
Sale 341-09-58

District: Tillamook

Date: May 06, 2009

logging costs

Operating Seasons:	1.00	Profit Risk:	10.00%
Project Costs:	\$58,820.00	Other Costs (P/R):	\$4,818.00
Slash Disposal:	\$0.00	Other Costs:	\$0.00

Miles of Road

Road Maintenance: \$3.89

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

Hauling Costs

Species	\$ / MBF	Trips/Day	MBF / Load
Douglas - Fir	\$0.00	3.0	4.0
Western Hemlock / Fir	\$50.00	3.0	4.0
Alder (Red)	\$0.00	3.0	3.5

Local Pond Values

Date	Specie	Grade	Value
5/6/09	Western Hemlock / Fir	2S	\$260.00
5/6/09	Western Hemlock / Fir	3S	\$260.00
5/6/09	Western Hemlock / Fir	4S	\$260.00
5/6/09	Alder (Red)	8" - 9"	\$340.00



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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									
\$131.20	\$4.01	\$1.82	\$54.62	\$2.00	\$19.36	\$0.00	\$5.00	\$0.00	\$218.01
Western Hemlock / Fir									
\$131.20	\$4.01	\$1.82	\$51.50	\$2.00	\$19.05	\$0.00	\$5.00	\$0.00	\$214.58
Alder (Red)									
\$131.20	\$4.01	\$1.82	\$62.43	\$2.00	\$20.15	\$0.00	\$5.00	\$0.00	\$226.61

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$310.92	\$92.91	\$0.00
Western Hemlock / Fir	\$0.00	\$260.00	\$45.42	\$0.00
Alder (Red)	\$0.00	\$340.00	\$113.39	\$0.00



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Wakefield
Sale 341-09-58

District: Tillamook

Date: May 06, 2009

summary

Amortized

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

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	1,873	\$92.91	\$174,020.43
Western Hemlock / Fir	480	\$45.42	\$21,801.60
Alder (Red)	56	\$113.39	\$6,349.84

Gross Timber Sale Value

Recovery: \$202,171.87

Prepared by: Dave Luttrell

Phone: 503-815-7025



PROJECT SUMMARY SHEET

Sale: Wakefield

CONSTRUCTION

Point	C to D	18+85	stations =	\$10,408.90
SUBTOTAL CONSTRUCTION				\$10,408.90

IMPROVEMENT

Point	A to B	258+60	stations =	\$42,578.25
Point	E	0+70	stations =	\$1,651.60
SUBTOTAL IMPROVEMENT				\$44,229.85

MOVE IN **\$4,181.25**

GRAND TOTAL **\$58,820.00**

SUMMARY OF CONSTRUCTION COST

Sale: **Wakefield**

Road: **A to B**

Construction -	0+00	stations	Improvement -	258+60	stations	Reconstruction -	0+00	stations
	0.00	miles		4.90	miles		0.00	miles

IMPROVEMENT: CLEARING AND GRUBBING -

Side cast	0.053	acres @	\$660.00	per acre =	\$34.98
Widening	0.156	acres @	\$660.00	per acre =	\$102.96
Scattering	1.190	acres @	\$980.00	per acre =	\$1,166.20
TOTAL CLEARING AND GRUBBING					\$1,304.14

IMPROVEMENT: EXCAVATION -

Pullback	207	cy. @	\$1.40	per c.y. =	\$289.80
Widening	1141	cy. @	\$1.40	per c.y. =	\$1,597.40
Remove Outside Berm	103	cy. @	\$1.40	per c.y. =	\$144.20
TOTAL EXCAVATION					\$2,031.40

IMPROVEMENT: ENDBAUL -

Pullback	160+30	to	161+20	156	cy. @	\$1.15	per c.y. =	\$179.40
Pullback	185+25	to	185+35	26	cy. @	\$1.36	per c.y. =	\$35.36
Pullback	217+30	to	218+15	25	cy. @	\$1.37	per c.y. =	\$34.25
Widening	133+00	to	134+40	270	cy. @	\$1.44	per c.y. =	\$388.80
Widening	161+95	to	162+50	107	cy. @	\$1.19	per c.y. =	\$127.33
Widening	168+85	to	168+95	25	cy. @	\$1.36	per c.y. =	\$34.00
Widening	169+40	to	170+10	135	cy. @	\$1.38	per c.y. =	\$186.30
Widening	170+40	to	171+25	9	cy. @	\$1.41	per c.y. =	\$12.69
Widening	171+40	to	171+50	25	cy. @	\$1.43	per c.y. =	\$35.75
Remove Outside Berm	131+85	to	132+75	33	cy. @	\$1.48	per c.y. =	\$48.84
Remove Outside Berm	157+40	to	158+20	35	cy. @	\$1.07	per c.y. =	\$37.45
Remove Outside Berm	168+30	to	169+40	13	cy. @	\$1.36	per c.y. =	\$17.68
Spread & compact				859	cy. @	\$0.25	per c.y. =	\$214.75
TOTAL ENDBAUL								\$1,352.60

CULVERTS - MATERIALS & INSTALLATION

Culverts

66	LF of 18"	\$1,155.00	90	LF of 24"	\$2,430.00
38	LF of 30"	\$1,368.00	0	LF of 36"	\$0.00
		\$2,523.00			\$2,430.00

Culvert Stakes & Markers

0	stakes	\$0.00
6	markers	\$108.00
		\$108.00

TOTAL CULVERTS \$5,061.00

ROCK

0+00 to	153+55	2,610	cy. of	Crushed	@	\$6.47	per c.y. =	\$16,886.70
Fill at Culvert	185+10	90	cy. of	PR/RR	@	\$15.63	per c.y. =	\$1,406.70
Base Rock		135	cy. of	Crushed	@	\$8.63	per c.y. =	\$1,165.05
Junction Rock	152+80	20	cy. of	Crushed	@	\$7.59	per c.y. =	\$151.80
Energy Dissipator	(7)	35	cy. of	Riprap	@	\$16.56	per c.y. =	\$579.60
TOTAL ROCK								\$20,189.85

SPECIAL PROJECTS

Construct waste areas @ 7+10, 152+80 & 201+25 -	2.50	hours @	\$130.00	per hour	\$325.00			
Construct / clean ditchouts -	17.00	@	\$25.00	each	\$425.00			
Fill roadway @ area of 185+10 -	6.00	hours @	\$130.00	per hour	\$780.00			
Grade and shape road 0+00 to 152+80 (full) -	152.80	stations @	\$15.50	per station	\$2,368.40			
Grade and shape road 152+80 to 258+60 (light) -	105.80	stations @	\$10.00	per station	\$1,058.00			
Construct outside ditch and endhaul -	11.90	stations @	\$80.00	per station	\$952.00			
Pull ditch and endhaul -	50.00	stations @	\$60.00	each	\$3,000.00			
Roll subgrade w/ vibratory roller prior to rocking 0+00 to 152+80 -	152.80	stations @	\$13.20	per station	\$2,016.96			
Cut large stumps below subgrade @ 135+30 & 138+30 -	2.00	@	\$30.00	each	\$60.00			
Remove culverts from state lands	5.00	@	\$437.90	total	\$437.90			
Grass seed and fertilize -	3.10	acres @	\$220.00	per acre	\$682.00			
Mulching -	0.890	acres @	\$600.00	per acre	\$534.00			
TOTAL SPECIAL PROJECTS								\$12,639.26

GRAND TOTAL \$42,578.25

SUMMARY OF CONSTRUCTION COST

Sale: **Wakefield** Road: **C to D**

Construction -	18+85	stations	Improvement -	0+00	stations
	0.36	miles		0.00	miles
Reconstruction -	0+00	stations		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station			
0+00		4+75			Outslope	---	=	designed seg.	\$3,035.00
4+75		5+55	5%		Outslope	\$74	=		\$59.20
5+55		6+50	25%		Outslope	\$165	=		\$156.75
6+50		8+00	40%		Outslope	\$243	=		\$364.50
8+00		10+40	50%		Outslope	\$459	=		\$1,101.60
10+40		11+25	65%	0.2	Outslope	\$2,001	=		\$1,700.85
11+25		11+45	40%		Outslope	\$364	=		\$72.80
11+45		14+20	25%		Outslope	\$247	=		\$679.25
14+20		14+80	20%		Outslope	\$139	=		\$83.40
14+80		16+10	45%		Outslope	\$269	=		\$349.70
16+10		18+20	30%		Outslope	\$191	=		\$401.10
18+20		18+35	10%		Outslope	\$90	=		\$13.50
18+35		18+85	15%		Outslope	\$107	=		\$53.50
TOTAL									\$8,071.15

ROCK

TOTAL ROCK \$0.00

SPECIAL PROJECTS

Construct waste areas -	1.50	hours @	\$130.00	per hour	\$195.00
Fill roadway @ area of 12+80 -	3.00	hours @	\$130.00	per hour	\$390.00
Grade and shape road -	18.85	stations @	\$14.50	per station	\$273.33
Roll subgrade w/ vibratory roller prior to rocking -	18.85	stations @	\$13.20	per station	\$248.82
Remove large stumps -	1.00	lump sum @	\$1,125.00		\$1,125.00
Grass seed and fertilize -	0.48	acres @	\$220.00	per acre	\$105.60
TOTAL SPECIAL PROJECTS					\$2,337.75

GRAND TOTAL \$10,408.90

SUMMARY OF CONSTRUCTION COST

Sale: Wakefield Road: Point E

<u>Construction -</u>	<u>0+00</u>	stations	<u>Improvement -</u>	<u>0+70</u>	stations	<u>Reconstruction -</u>	<u>0+00</u>	stations
	0.00	miles		0.01	miles		0.00	miles

IMPROVEMENT: EXCAVATION - Slope Stabilization Prep.			20	cy. @	\$1.40	per c.y.=	<u>\$28.00</u>	
							TOTAL EXCAVATION	\$28.00

IMPROVEMENT: ENDHAUL - Slope Stabilization Prep. Spread & compact	0+00	to	0+00					
			20	cy. @	\$1.07	per c.y.=	<u>\$21.40</u>	
			20	cy. @	\$0.25	per c.y.=	<u>\$5.00</u>	
							TOTAL ENDHAUL	\$26.40

ROCK								
Energy Dissipator	0+00		10	cy. of	Riprap	@	\$20.32 per c.y.=	<u>\$203.20</u>
Fill at Culvert	0+00		50	cy. of	Pit-Run	@	\$19.52 per c.y.=	<u>\$976.00</u>
							TOTAL ROCK	\$1,179.20

SPECIAL PROJECTS								
Fill roadway @ area of culvert outlet -			3.00	hours @	\$130.00	per hour	<u>\$390.00</u>	
Grass seed and fertilize -			0.04	acres @	\$220.00	per acre	<u>\$8.80</u>	
Mulching -			0.032	acres @	\$600.00	per acre	<u>\$19.20</u>	
							TOTAL SPECIAL PROJECTS	\$418.00

GRAND TOTAL	\$1,651.60
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Move-In Calculations for Project Work not Involving Rocking/Pit Work

Sale: **Wakefield**

LOWBOY HAUL (Round Trip)		
DIST. (mi)	ROADWAY	AVE SPEED (mph)
50.0	Pavement	30
14.0	Main Lines	7
2.0	Steep Grades	2

No.	EQUIPMENT DESCRIPTION	Move in Cost	Pilot Cars	Within Area Move (\$/mile)	Begin Mileage	End Mileage	Total Miles	Within Area Cost	Total Cost
1	Drill & Compressor	\$676.58			0.00	0.00	0	\$0.00	\$676.58
1	Rollers (smooth/grid) & Compactors	\$678.08			0.00	0.00	0	\$0.00	\$678.08
1	Excavators (Large)	\$1,027.99	1		0.00	0.00	0	\$0.00	\$1,027.99
1	Tractor (D8)	\$980.46	2		0.00	0.00	0	\$0.00	\$980.46
2	Dump Truck (10 cy +)	\$553.33			0.00	0.00	0	\$0.00	\$553.33
1	Water Truck (2500 Gal)	\$264.81			0.00	0.00	0	\$0.00	\$264.81
TOTAL MOVE-IN COSTS:								\$4,181.25	

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Crushed Stockpile	Location:	SE 1/4, Sec. 9, T3N, R9W, W.M.
Sale:	Wakefield	Road:	2765 c.y.
Swell:	0.00	Stockpile:	c.y.
Shrinkage:	0.00	Total Truck Loads:	2765 c.y.
Drill Pct.:	0%	In Place Total:	c.y.

Pit Development & Cleanup including Clearing and grubbing of Waste Area @ adjacent to pit, place overburden in Waste Area, spread and compact. \$0.00

Load Dump Truck: \$0.70 /cu.yd. x 2765 cu.yds. = \$1,935.50

Subtotal \$1,935.50

Move in Grader	1	@	\$775.71	=	\$775.71
Move in Loader	1	@	\$761.96	=	\$761.96
Move in Trucks	2	@	\$225.29	=	\$450.58
				Subtotal	\$1,988.25

Base Cost= \$1.42 Per Cu.Yd.

TOTAL PRODUCTION COSTS \$3,923.75

Road Segment	Haul Cost \$/cu.yd.	Proc Cost \$/cu.yd.	Base Cost. \$/cu.yd.	Cost \$/cu.yd.	Number Cu. Yds	ROCK COST
A to B 0 15355 (Crushed)	3.30	1.75	1.42	6.47	2610	\$16,886.70
A to B Base Rock (Crushed)	5.46	1.75	1.42	8.63	135	\$1,165.05
A to B Junction Rock (Crushed)	4.42	1.75	1.42	7.59	20	\$151.80
				Total C.Y.	2765	Sub Total \$18,203.55

TOTAL ROCKING COSTS \$18,203.55

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Pit_run	Location:	NW 1/4 Sec. 7, T3N, R8W, W.M.
Sale:	Wakefield	Road:	185 c.y.
Swell:	1.40	Stockpile:	c.y.
Shrinkage	1.16	Total Truck Loads:	185 c.y.
Drill Pct.:	0%	In Place Total:	132 c.y.

Pit Development & Cleanup including Clearing and grubbing of Waste Area @ adjacent to pit, place overburden in Waste Area, spread and compact.	\$506.52
Rip Rock:	\$1.90 /cu.yd. x 132 cu.yds. = \$250.80
Load Dump Truck:	\$0.70 /cu.yd. x 185 cu.yds. = \$129.50

Subtotal \$886.82

Move in Excavator	1	@	\$989.66	=	\$989.66
Move in Trucks	2	@	\$225.29	=	\$450.58
Move in Water Truck	1	@	\$264.81	=	\$264.81
				Subtotal	<u>\$1,705.05</u>

TOTAL PRODUCTION COSTS \$2,591.87
 Base Cost= \$14.01 Per Cu.Yd.

Road Segment	Haul Cost \$/cu.yd.	Proc Cost \$/cu.yd.	Base Cost. \$/cu.yd.	Cost \$/cu.yd.	Number Cu. Yds	ROCK COST
A to B Fill at Culvert (PR/RR)	1.02	0.60	14.01	15.63	90	\$1,406.70
A to B Energy Dissipator (Riprap)	1.15	1.40	14.01	16.56	35	\$579.60
Point E Energy Dissipator (Riprap)	4.91	1.40	14.01	20.32	10	\$203.20
Point E Fill at Culvert (Pit-Run)	4.91	0.60	14.01	19.52	50	\$976.00
				Total C.Y.	185	Sub Total \$3,165.50

TOTAL ROCKING COSTS \$3,165.50



OREGON DEPARTMENT OF FORESTRY

CRUISE REPORT

Wakefield

1. **Type of Sale**

Thinning, Recovery

2. **Legal Description**

Portions of Section 6 & 7, T3N, R8W, W.M., Tillamook County Oregon

3. **Sale Acreage**

Sale acreage was determined by GPS and orthophotographs along with GIS.

	ACRES	
	<u>Gross</u>	<u>Net</u>
Partial Cut	136	133
<u>Gross Acres</u>		
Area within the Timber Sale Boundary signs		
<u>Net acres</u>		
<i>Used for calculating the advertised volume.</i>		
Gross acres, less green tree retention, roads, Non-required thinning areas, and riparian areas classified as Special Stewardship in LMCS inside the sale boundary.		

4. **Cruising Procedures**

A. Cruise Method

A total of 15 variable radius plots were taken on the sale area, spaced on a rectangular grid of 350' x 500'. All plots were full cruise plots. All conifers 8 inches DBH and greater containing 20 net board feet and all hardwoods 10 inches DBH and greater containing 30 net board feet were recorded on all plots. Species were recorded on all trees, and they were graded and measured for merchantable height, diameter, and form factor.

B. Plot size

A basal area factor of 62.50 was used for the Timber Sale Area. The point of observation is 4.5 feet.

C. Grading System

All trees were graded according to Columbia River Log Scaling and Grading Rules. Tree heights were recorded to a 6 inch top outside bark for all conifers and 10 inches top outside bark for hardwoods; or three tenths (0.3) of DBH for all species, whichever was greater. Log lengths all favored 40 feet for all species. Height and diameter measurement standards were to the nearest foot or inch respectively. All diameters were taken at a height of 4.5 feet on the uphill side.

5. Computation Procedure

Plot data was entered into SuperAce for computation of basal area, stand tables, and volume for each species and type. This data was then entered into the Volume Summary table to compute sale volumes. The standard error for the cruise was 9.3% and the coefficient of variation was 34.7 % based on 18 MBF per acre.

6. Hidden Defect and Breakage

5% hidden defect and breakage was taken on conifers and 10% hidden defect and breakage was taken on hardwoods.

7. Timber Description

The sale was logged in the early 1900's and naturally regenerated. There has been no stand management to this point. Burn scars on the older snags and stumps indicate past fire; however, no record of fire was found.

8. Cruiser Names/Dates

Luttrell, Wells

9. Revenue Distribution

FDF – 100%

Tax Code: 56-1

Deed Numbers: 35

10. Attachments

Stand Table (partial cut)

Volume Summaries

Log Stock Tables

Logging Plan Map

11. Stand and Log Stock Tables Species Key

DL – Douglas-fir leave

DF – Douglas-fir take

RL – Red alder leave

RA – Red alder take

RC – Western red cedar reserved

WL – Western hemlock leave

WH – Western hemlock take

TC	PSTNDSUM	Stand Table Summary										Page	2				
												Date:	4/7/2009				
T03N R08W S07 Ty001		133.00		Project				WAKEFIEL				Time:		7:44:22AM			
				Acres				133.00				Grown Year:					
S Spc	T	Sample		Tot		Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals			
		DBH	Trees	FF 16'	Av Ht				Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF	
OC		80	1	99	17	.119	4.17										
OC	Totals		9	86	111	19.988	37.50										
OH		11	1	72	48	6.314	4.17										
OH	Totals		1	72	48	6.314	4.17										
Totals			76	84	105	151.621	316.67	272.85	40.3	162.4	310.90	10,990	44,318	41,350	14,616	5,894	

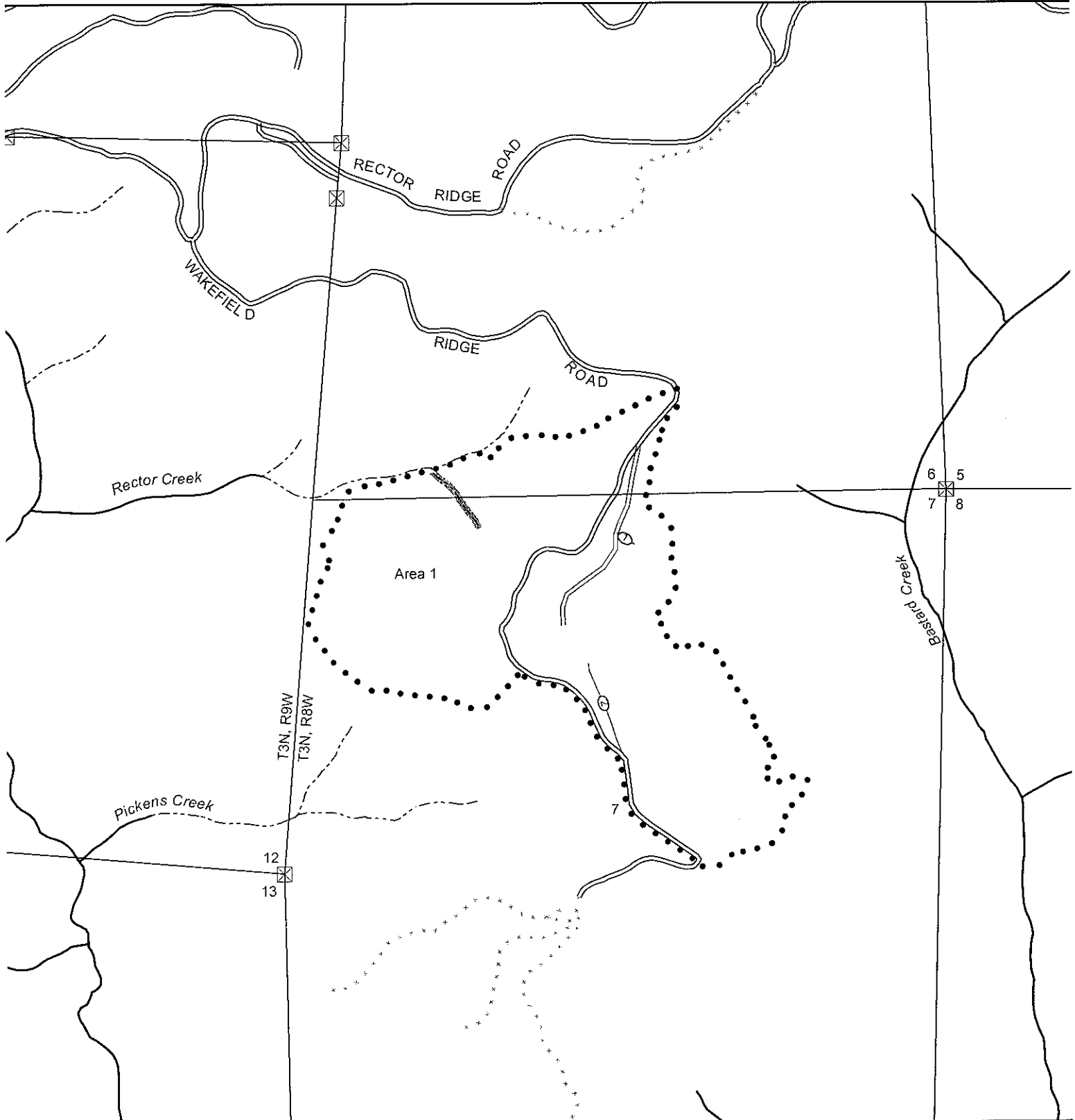
Log Stock Table - MBF

T03N R08W S07 Ty001 133.00

Project: WAKEFIEL
Acres 133.00

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Date 4/7/2009
Time 7:43:06AM

Spp	S T	So Gr rt de	Log Len	Gross MBF	Def %	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches											
								2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
DL		DO 4M	20	6		6	.2		6										
DL		DO 4M	24	4		4	.1			4									
DL		DO 4M	26	6		6	.2			6									
DL		DO 4M	30	5		5	.2		5										
DL		DO 4M	31	7		7	.2		7										
DL		DO 4M	32	6		6	.2		6										
DL		DO 4M	33	16		16	.5		16										
DL		DO 4M	35	7		7	.2		7										
DL		DO 4M	39	13		13	.4		13										
DL		DO 4M	40	13		13	.4		13										
DL		Totals		3,116	1.7	3,065	52.0		75	76	160	369	410	338	1172	402	64		
WH		DO 2M	40	230	5.0	218	45.4					60	79	80					
WH		DO 3M	40	214	5.0	203	42.4			21	87	96							
WH		DO 4M	19	17	5.0	16	3.3			16									
WH		DO 4M	21	17	5.0	16	3.3			16									
WH		DO 4M	31	28	5.0	27	5.6			27									
WH		Totals		506	5.0	480	8.2			80	87	96	60	79	80				
RL		DO 3M	31	25		25	8.8					25							
RL		DO 3M	40	124		124	43.2					124							
RL		DO 4M	15	9		9	3.1				9								
RL		DO 4M	19	13		13	4.4				13								
RL		DO 4M	40	116		116	40.5				116								
RL		Totals		287		287	4.9			138	150								
WL		DO 2M	40	84		84	63.5							84					
WL		DO 3M	40	38		38	28.6				38								
WL		DO 4M	32	10		10	7.9			10									
WL		Totals		132		132	2.2			10	38			84					
RA		DO 4M	40	62	10.0	56	100.0				56								
RA		Totals		62	10.0	56	.9				56								
Total		All Species		6,101	3.4	5,894	100.0		150	347	634	927	1080	477	1814	402	64		



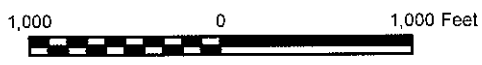
- Landing
- Ⓧ Domestic water supply intake
- Ⓜ Helicopter landing zone
- Ⓣ Truck turn-around
- ⊠ Survey corner
- ▭ Cable yarding
- ▨ Ground yarding
- ⊠ Helicopter yarding
- ▨ Downhill yarding
- ▨ Buffer (unposted)
- ▨ Non-required thinning

- - - Area boundary
- • • Sale boundary
- - - Ownership boundary
- Perennial Type-F stream
- - - Perennial Type-N stream
- == Unsurfaced road
- Surfaced road
- State/Federal highway
- County road
- Ⓣ Non-project road
- A - Swing road
- ⋯ Legacy road
- x x x Blocked road
- ⋯ OHV trail
- ⋯ Non-motorized trail
- T T T Transmission line

LOGGING PLAN

Timber Sale Contract No. 341-09-58
 Wakefield
 Portions of Sections 6 and 7,
 T3N, R8W, W.M.,
 Tillamook County, Oregon

Area	Type of Operation	Acres	
		Gross	Net
1	Partial Cut	136	133



Tillamook District GIS
 04/07/2009

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

