



"STEWARDSHIP IN FORESTRY"

# Timber Sale Appraisal Cost Summary Same Wolf Sale 341-03-87

District: Tillamook

Date: 5/14/03

	Conifer	Hardwood	Total
<b>Gross Timber Sale Value</b>	\$654,425.93	\$0.00	\$654,425.93
		<b>Project Work</b>	(\$228,493.32)
		<b>Advertised Value</b>	\$425,932.61



# Timber Sale Appraisal Timber Description Same Wolf Sale 341-03-87

"STEWARDSHIP IN FORESTRY"

**District:** Tillamook

**Location:** Portions of Sections 13, 14, 15, 22, 23 T1N, R8W, W.M., Tillamook Co., Oregon

**Date:** 5/14/03

**Stand Stocking:** 40%

Species	Avg. DBH	Amortized%	Recovery%
Douglas - Fir	14	0	95

Volume by Grade	Douglas - Fir	Total
2S	219	219
3S	1,961	1,961
4S	513	513
<b>Total</b>	<b>2,693</b>	<b>2,693</b>

**Comments:** Pond Values Used: 1st Quarter 2003 + Local Pond Values

Hardwood pond value of \$515 (1st quarter 2003), less the logging cost of Douglas-fir, was used to determine the stumpage value of hardwoods.

See additional cost sheet.



# Timber Sale Appraisal

## Logging Conditions

### Same Wolf

### Sale 341-03-87

"STEWARDSHIP IN FORESTRY"

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**Combination#:** 1      Douglas - Fir      85.36%

**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:** 7      **Bd. Ft./Load:** 3,500

**Cost/MBF:** \$133.99

**Machines:**

- Log Loader (A)
- Stroke Delimber (A)
- Tower Yarder (Medium)

**Combination#:** 2      Douglas - Fir      14.64%

**Yarding Distance:** Short (400 ft)      **Downhill Yarding:** Yes

**Logging System:** Track Skidder      **Process:** Manual Falling/Delimiting

**Tree Size:** Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF

**Loads/Day:** 9      **Bd. Ft./Load:** 3,500

**Cost/MBF:** \$103.66

**Machines:**

- Log Loader (B)
- Track Skidder



# Timber Sale Appraisal

## Logging Costs

### Same Wolf

## Sale 341-03-87

"STEWARDSHIP IN FORESTRY"

Date: 5/14/03

Operating Seasons: 2.4

Profit & Risk: 15%

Project Costs: \$228,493

Other Costs (P/R): \$37,676

Slash Disposal: \$0

Other Costs: \$7,380

Miles of Road			
Dirt	Rock (Contractor)	Rock (State)	Paved
0.0	0.0	0.0	0.0

Road Maintenance: \$1.96

#### Hauling Costs

Species	\$/MBF	Trips/Day	MBF/Load
Douglas - Fir	\$0.00	2.0	3.5

#### Local Pond Values

Date	Species	Grade	Value
5/14/03	Douglas - Fir	2S	\$530.00
5/14/03	Douglas - Fir	3S	\$505.00
5/14/03	Douglas - Fir	4S	\$455.00



"STEWARDSHIP-IN FORESTRY"

# Timber Sale Appraisal Logging Costs Breakdown Same Wolf Sale 341-03-87

Costs	Douglas - Fir
<b>Logging</b>	129.55
<b>Road Maintenance</b>	2.06
<b>Fire Protection</b>	2.42
<b>Hauling</b>	69.16
<b>Other (P/R appl.)</b>	13.99
<b>Profit &amp; Risk</b>	32.58
<b>Slash Disposal</b>	0.00
<b>Scaling</b>	2.00
<b>Other</b>	2.74
<b>Total</b>	254.50

<b>Amortization</b>	0.00
<b>Pond Value</b>	497.51
<b>Stumpage</b>	243.01
<b>Amortized</b>	0.00



"STEWARDSHIP IN FORESTRY"

# Timber Sale Appraisal Summary Same Wolf Sale 341-03-87

## Amortized

	Douglas - Fir
MBF	0.00
Value	0.00
Total	0.00

## Unamortized

	Douglas - Fir
MBF	2,693.00
Value	243.01
Total	654,425.93

## Gross Timber Sale Value

**Recovery \$654,425.93**

Prepared by: Tod Haren

Date: 5/14/03

District: Tillamook

Phone: (503) 842-2545



**Timber Sale Appraisal  
Additional Cost Worksheet  
Same Wolf  
Sale 341-03-087**

STEWARDSHIP IN FORESTRY

Cable Yarding Vol. (MBF):	2299
Ground Yarding Vol. (MBF):	394
<b>Total Sale Volume:</b>	<b>2693</b>

ADDITIONAL COSTS - PROFIT & RISK TO BE ADDED						
Yarding & Loading:	Cost / MBF		Volume (MBF)			
Brand & Paint:	\$ 2	x	2693	=		\$5,386
Truck Assist/Tractor Swing	\$ 30	x	1043	=		\$31,290
	Cost / Each					
Intermediate supports	\$ 100	x	10	=		\$1,000
<b>OTHER COSTS TOTAL</b>						<b>\$37,676</b>
ADDITIONAL COSTS - PROFIT & RISK INCLUDED						
Non-Project Roads (See Logging Plan in Cruise Report)						
Non-Proj. Rd. 1	3	Stations	x	\$ 110	=	\$330
Non-Proj. Rd. 2	7	Stations	x	\$ 110	=	\$770
Swing Road "A"	4	Stations	x	\$ -	=	\$0
Swing Road "B"	8	Stations	x	\$ 110	=	\$880
Swing Road "C"	7	Stations	x	\$ -	=	\$0
Swing Road "D"	3	Stations	x	\$ -	=	\$0
Swing Road "E"	4	Stations	x	\$ 160	=	\$640
<b>Totals</b>	36					<b>\$2,620</b>
		Stations	x	cys	x	\$/cy
Approach Rock: Pit-Run	2			50	x	6
Ditch Pulling and End Haul (per CY)				50	x	28
		Stations		acres	x	\$/ac
Grass Seeding	36			2	x	180
Mulching	36			2	x	1000
		Stations			x	\$/Sta.
OHV Trail Clearing		10	x			15
OHV Trail Work <sup>2</sup>		10	x			25
<b>OTHER COSTS TOTAL</b>						<b>\$7,380</b>
ROAD MAINTENANCE						
				\$/Cu.Yd	MMBF	Miles
				cu.yds/mile		\$/MBF
Surfacing <sup>3</sup> :	Pit-Run	\$6.00	2.7	0.5	25	\$0.08
	Crushed	\$5.00	2.7	5	25	\$0.63
				\$/Mile	MMBF	Miles
Grading <sup>4</sup>		\$ 500	2.7	5		\$1.25
<b>TOTAL ROAD MAINTENANCE COST / MBF:</b>						<b>\$1.96</b>

<sup>1</sup>Includes cost for excavating, hauling, compaction, and sediment control devices; 3 move-ins @ \$400/move-in, \$3.50/cy

<sup>2</sup>Blocking/Restricting access to non-OHV traffic, and installation of OHV dips

<sup>3</sup>Assumes 25 cys crushed rock per MMBF per mile; 25 cubic yards pit-run per MMBF/mile

<sup>4</sup>Grading two times (assumes grading portion of roads)

PROJECT SUMMARY SHEET

Sale: Same Wolf

Date: Apr. 29 2003

Improvement -

Point	A - B	259+00	stations =	\$167,592.40
Point	C - D	81+50	stations =	\$12,827.77
Point	E - F	9+50	stations =	\$7,426.69
Point			stations =	\$0.00
Point			stations =	\$0.00
SUB TOTAL				\$187,846.86

Special Projects -

<u>Develop Waste Areas</u>	\$1,000.00
<u>Construct A Stockpile: Base: 100' x 75', Hgt.: 15'</u>	\$34,789.92
<u>Construct A Stockpile: Base: 45' x 45', Hgt.: 10'</u>	\$3,386.84
	\$0.00
SUB TOTAL	\$39,176.76

Move - In -

<u>Grader, Excavator, Crawler Tractor, 2 Dump Trucks</u>	\$1,469.70
	\$0.00
	\$0.00
	\$0.00
	\$0.00
	\$0.00
	\$0.00
SUB TOTAL	\$1,469.70

GRAND TOTAL \$228,493.32



SUMMARY OF CONSTRUCTION COST

Sale: Same Wolf Road: A - B Cedar Butte

Construction - 0.00 stations miles Improvement - 259+00 stations miles  
0.00 miles 4.91 miles

CLEARING AND GRUBBING -

Scattering	0.00 acres @	\$815.00 per acre =	\$0.00	
Endhaul	0.00 acres @	\$1,500.00 per acre =	\$0.00	
TOTAL CLEARING AND GRUBBING				\$0.00

EXCAVATION -

Excavator	2 hr.s @	\$130.00 per hr. =	\$260.00	
Common	1404 cys. @	\$2.64 per c.y. =	\$3,706.56	
Common	1510 cys. @	\$3.50 per c.y. =	\$5,285.00	
Sidecast Pullback	141 cys. @	\$3.35 per c.y. =	\$472.35	
Rippable	108 cys. @	\$4.55 per c.y. =	\$491.40	
Drill & Shoot	815 cys. @	\$6.91 per c.y. =	\$5,631.65	
	0 cys. @	\$0.00 per c.y. =	\$0.00	
TOTAL EXCAVATION				\$15,846.96

CULVERT MATERIALS -

Culverts				
403	LF of 18"	\$5,944.25	182	LF of 24" \$3,230.50
74	LF of 30"	\$1,535.50	0	LF of 36" \$0.00
		\$7,479.75		\$3,230.50
Half Rounds				
80	LF of 21"	\$912.00	30	LF of 30" \$435.00
0	LF of 60"	\$0.00	0	LF of 66" \$0.00
		\$912.00		\$435.00
Culvert Stakes				
22	1/2 round stakes @	\$8.00 per stake=	\$176.00	
23	marker stakes @	\$6.00 per stake=	\$138.00	
TOTAL CULVERT MATERIALS				\$12,371.25

SURFACING- 0+00 - 259+00

6" Depth	8,547 cy. of	2"-0"Crshd @	\$11.39 per c.y.=	\$97,350.33
CrvWiden	256 cy. of	2"-0"Crshd @	\$11.39 per c.y.=	\$2,915.84
35Tmouts	385 cy. of	2"-0"Crshd @	\$11.39 per c.y.=	\$4,385.15
TOTAL SURFACING				\$104,651.32

MISCELLANEOUS-

1,566	cy. of	Riprap @	\$12.12 per c.y.=	\$18,979.92
1,177	cy. of	Pit Run @	\$7.26 per c.y.=	\$8,545.02
	cy. of	@	\$0.00 per c.y.=	\$0.00
TOTAL MISCELLANEOUS				\$27,524.94

SPECIAL PROJECTS

Remove old culverts from State land	\$415.13
Remove Old Car Junk From State Land @ Sta. 81+70	\$200.00
Cut Marked Stumps 6 inches Below Subgrade	\$350.00
Remove Old Growth Stumps @ Sta.s 16+20 AND 16+50: 1.5 Hr.s Excavator	\$195.00
Grade Road: 360+90 Stations @ \$14.20/sta.	\$3,677.80
Grass Seed, Fertilize & Mulch Areas of Disturbed Soil	\$2,360.00
TOTAL SPECIAL PROJECTS	\$7,197.93

GRAND TOTAL \$167,592.40

SUMMARY OF CONSTRUCTION COST

Sale: Same Wolf Road: Points C - D Wolf Creek Road

Construction - 0.00 stations miles Improvement - 81+50 stations miles  
0.00 miles 1.54 miles

CLEARING AND GRUBBING -

Side cast	0.00	acres	@	\$540.00	per acre =	\$0.00	
Scattering	0.00	acres	@	\$815.00	per acre =	\$0.00	
Piling	0.00	acres	@	\$905.00	per acre =	\$0.00	
Endhaul	0.00	acres	@	\$1,500.00	per acre =	\$0.00	
TOTAL CLEARING AND GRUBBING							\$0.00

EXCAVATION -

Common	514	cys.	@	\$2.80	per c.y. =	\$1,439.20	
Common	294	cys.	@	\$3.38	per c.y. =	\$993.72	
Drill & Shoot	701	cys.	@	\$6.55	per c.y. =	\$4,591.55	
	0	cys.	@	\$0.00	per c.y. =	\$0.00	
	0	cys.	@	\$0.00	per c.y. =	\$0.00	
TOTAL EXCAVATION							\$7,024.47

SURFACING- Sta.s 0+00 - 4+00

9" Depth	200	cy. of	Pit Run	@	\$4.50	per c.y.=	\$900.00
CrvWiden	30	cy. of	Pit Run	@	\$4.50	per c.y.=	\$135.00
TOTAL SURFACING							\$1,035.00

SURFACING- Spot Rock Stas. 4+00 - 81+50

9" Depth	750	cy. of	Pit Run	@	\$4.50	per c.y.=	\$3,375.00
TOTAL SURFACING							\$3,375.00

SPECIAL PROJECTS

Grade Road: 81+50 Stations @ \$14.20/sta.	\$1,157.30
Grass Seed, Fertilize & Mulch Areas of Disturbed Soil	\$236.00
	\$0.00
	\$0.00
TOTAL SPECIAL PROJECTS	\$1,393.30

GRAND TOTAL \$12,827.77

**SUMMARY OF CONSTRUCTION COST**

Sale: Same Wolf Road: Points E - F

Construction - 0.00 stations miles Improvement - 9+50 stations miles  
0.18 miles

**CLEARING AND GRUBBING -**

Side cast	0.00	acres	@	\$540.00	per acre =	\$0.00	
Scattering	0.00	acres	@	\$815.00	per acre =	\$0.00	
Piling	0.00	acres	@	\$905.00	per acre =	\$0.00	
Endhaul	0.00	acres	@	\$1,500.00	per acre =	\$0.00	
<b>TOTAL CLEARING AND GRUBBING</b>							<b>\$0.00</b>

**EXCAVATION -**

	0	hr.s	@	\$0.00	per hr. =	\$0.00	
	5.50	sta.	@	\$65.00	per sta. =	\$357.50	
	936	cys.	@	\$2.80	per c.y. =	\$2,620.80	
	0	cys.	@	\$0.00	per c.y. =	\$0.00	
	0	cys.	@	\$0.00	per c.y. =	\$0.00	
<b>TOTAL EXCAVATION</b>							<b>\$2,978.30</b>

**SURFACING-**

12" Depth	637	cy. of	Pit Run	@	\$4.91	per c.y.=	\$3,127.67
CrvWiden	30	cy. of	Pit Run	@	\$4.91	per c.y.=	\$147.30
SmTurnmd	22	cy. of	Pit Run	@	\$4.91	per c.y.=	\$108.02
<b>TOTAL SURFACING</b>							<b>\$3,382.99</b>

**SPECIAL PROJECTS**

<u>Grade Road: 9+50 Stations @ \$14.20/sta.</u>	\$134.90
<u>Grass Seed, Fertilize and Mulch Areas of Disturbed Soil</u>	\$826.00
<u>Roll Subgrade: 9+50 Stations @ \$11/Sta.</u>	\$104.50
	\$0.00
<b>TOTAL SPECIAL PROJECTS</b>	<b>\$1,065.40</b>

**GRAND TOTAL** **\$7,426.69**

**ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY**

**SALE: SAME WOLF**

Pit:	<u>OFF WOLF</u>	Location:	<u>NE1/4NE1/4Sec15T1NR8W</u>
Rock:	<u>2"-0" Crushed</u>	Road:	<u>9188 c.y.</u>
Swell:	<u>1.40</u>	Stockpile Size:	<u>3358 c.y.</u>
Shrinkage:	<u>1.16</u>	Total Truck Loads:	<u>13083 c.y.</u>
Drill Pct.:	<u>75%</u>	In Place Total:	<u>9345 c.y.</u>

Pit Development:					\$8,000.00
Drill & Shoot:	\$2.10 /cu.yd.	x	7009 cu.yds.	=	\$14,718.90
Strip Rock:	\$1.50 /cu.yd.	x	2,336 cu.yds.	=	\$3,504.00
Push Rock:	\$0.60 /cu.yd.	x	13083 cu.yds.	=	\$7,849.80
Load Crusher:	\$0.53 /cu.yd.	x	13083 cu.yds.	=	\$6,933.99
Crushing:	\$2.25 /cu.yd.	x	13083 cu.yds.	=	\$29,436.75
Load Dump Truck:	\$0.60 /cu.yd.	x	13083 cu.yds.	=	\$7,849.80
Oversize Reduction:	\$4.00 /cu.yd.	x	0 cu.yds.	=	\$0.00
			Sub Total		\$78,293.24

Move-In:		
Drill & Compressor		\$180.53
Excavator		\$469.13
2 Loaders		\$180.00
6 Dump Trucks		\$583.92
Crusher Move-In		\$1,443.62
Crusher Set-Up		\$2,520.00
Roller		\$139.78
<b>TOTAL</b>		<b>\$5,516.98</b>

Base Cost= \$6.41 Per Cu.Yd.

Road Segment	Haul Cost /cu.yd.	Proc Cost /cu.yd.	Base Cst. /cu.yd.	Cost /cu.yd.	Number Cu. Yds	ROCK COST
<b>A - B</b>	\$3.68	\$1.30	\$6.41	\$11.39	9188	\$104,651.32
	\$0.00	\$0.00	\$0.00	\$0.00	0	\$0.00
	\$0.00	\$0.00	\$0.00	\$0.00	0	\$0.00
	Total C.Y.				9188	Sub Total \$104,651.32

Stockpile #	Haul Cost /cu.yd.	Proc Cost /cu.yd.	Base Cst. /cu.yd.	Cost /cu.yd.	Number Cu.Yds.	ROCK COST
#1						
#2	\$5.02	\$0.55	\$6.41	\$11.98	2904	\$34,789.92
	\$0.50	\$0.55	\$6.41	\$7.46	454	\$3,386.84
	Total C.Y.				3358	Sub Total \$38,176.76

TOTAL ROCKING COSTS = \$142,828.08

**PIT RUN PIT DEVELOPMENT AND STRIPPING COST SUMMARY**  
**SALE: SAME WOLF**

Pit:	<u>WOLF CREEK</u>	Location:	<u>NW1/4NE1/4Sec14T1NR8W</u>
Rock:	<u>PIT RUN</u>	Road:	<u>2846 c.y.</u>
Swell:	<u>1.30</u>	Stockpile Size:	<u>c.y.</u>
Shrinkage:	<u>1.16</u>	Total Truck Loads:	<u>2846 c.y.</u>
Drill Pct.:	<u>0%</u>	In Place Total:	<u>2189 c.y.</u>

Pit Development:					\$600.00
Drill & Shoot:	<u>\$1.90 /cu.yd.</u>	x	<u>0 cu.yds.</u>	=	\$0.00
Strip Rock:	<u>\$1.50 /cu.yd.</u>	x	<u>2,189 cu.yds.</u>	=	\$3,283.50
Push Rock:	<u>\$0.60 /cu.yd.</u>	x	<u>2846 cu.yds.</u>	=	\$1,707.60
Load Dump Truck:	<u>\$0.70 /cu.yd.</u>	x	<u>2846 cu.yds.</u>	=	\$1,992.20
			Sub Total		\$7,583.30

Base Cost= \$2.66 Per Cu.Yd.

Road Segment	Haul Cost /cu.yd.	Proc Cost /cu.yd.	Base Cst. /cu.yd.	Cost /cu.yd.	Number Cu. Yds	ROCK COST
<b>SURFACING:</b>						
C - D	\$1.24	\$0.60	\$2.66	\$4.50	980	\$4,410.00
E - F	\$1.65	\$0.60	\$2.66	\$4.91	689	\$3,382.99
	\$0.00	\$0.60	\$2.66	\$3.26	0	\$0.00
<b>MISC.:</b>						
A - B	\$4.00	\$0.60	\$2.66	\$7.26	1177	\$8,545.02
	\$0.00	\$0.60	\$2.66	\$3.26	0	\$0.00
	\$0.00	\$0.60	\$2.66	\$3.26	0	\$0.00
			Total C.Y.		2846	Sub Total \$16,338.01

TOTAL ROCKING COSTS = \$16,338.01

**PIT RUN PIT DEVELOPMENT AND STRIPPING COST SUMMARY**  
**SALE: SAME WOLF**

Pit:	<u>CEDAR BUTTE/CREEK</u>	Location:	<u>NW1/4SW1/4Sec2T1NR8W</u>
Rock:	<u>RIPRAP</u>	Road:	<u>1566 c.y.</u>
Swell:	<u>1.40</u>	Stockpile Size:	<u>c.y.</u>
Shrinkage	<u>1.16</u>	Total Truck Loads:	<u>1566 c.y.</u>
Drill Pct.:	<u>75%</u>	In Place Total:	<u>1119 c.y.</u>

Pit Development:					\$600.00
Drill & Shoot:	<u>\$1.90 /cu.yd.</u>	x	<u>839 cu.yds.</u>	=	\$1,594.10
Strip Rock:	<u>\$1.50 /cu.yd.</u>	x	<u>280 cu.yds.</u>	=	\$420.00
Push Rock:	<u>\$0.00 /cu.yd.</u>	x	<u>1566 cu.yds.</u>	=	\$0.00
Load Dump Truck:	<u>\$0.90 /cu.yd.</u>	x	<u>1566 cu.yds.</u>	=	\$1,409.40
			Sub Total		<u>\$4,023.50</u>

Base Cost= \$2.57 Per Cu.Yd.

Road Segment	Haul Cost	Place Rock	Base Cst.	Cost	Number	ROCK
	/cu.yd.	/cu.yd.	/cu.yd.	/cu.yd.	Cu. Yds	COST
<b>RIPRAP:</b>						
<b>A - B</b>	<u>\$8.15</u>	<u>\$1.40</u>	<u>\$2.57</u>	<u>\$12.12</u>	<u>1566</u>	<u>\$18,979.92</u>
	<u>\$0.00</u>	<u>\$0.00</u>	<u>\$0.00</u>	<u>\$0.00</u>	<u>0</u>	<u>\$0.00</u>
	<u>\$0.00</u>	<u>\$0.00</u>	<u>\$0.00</u>	<u>\$0.00</u>	<u>0</u>	<u>\$0.00</u>
			Total C.Y.		1566	Sub Total
						<u>\$18,979.92</u>

TOTAL ROCKING COSTS = \$18,979.92



# OREGON DEPARTMENT OF FORESTRY

## CRUISE REPORT

### Same Wolf

1. **Type of Sale**

Clearcut - Recovery

2. **Legal Description**

Portions of Section 13,14,15, 22, and 23, T1N, R8W, W.M. Tillamook County, Oregon

3. **Sale Acreage**

Sale acreage was determined by plotting posted boundaries in ArcView GIS, using digital orthophotos and planimetric themes.

	<b>ACRES</b>		
	<u>Sale</u>	<u>Total</u>	<u>Net</u>
<b>Area 1 (Clearcut)</b>	52	54	51
<b>Area 2 (Clearcut)</b>	101	112	92
<b>Area 3 (Clearcut)</b>	20	16	16
<b>Area 4 (Clearcut)</b>	114	113	108
<b>Total</b>	287	295	267

Sale Acres

Area within the Timber Sale Boundary signs

Total acres

For accomplishment reporting

**Clearcut harvest** - Sale acres; plus green tree retention acres outside the sale boundary; less roads and riparian areas classified as Special Stewardship in LMCS inside the sale boundary.

Net acres

Used for calculating the advertised volume.

**Clearcut** - Sale acres, less green tree retention, unstocked acres, roads, and riparian areas classified as Special Stewardship in LMCS inside the sale boundary.

4. **Cruising Procedures**

**A. Cruise Method**

Cruise lines were established diagonally to the slopes throughout the sale to represent the timber types in each area. A total of 63 sample points were located along these lines. A ratio of two count plots per one measured plot was established. Conifer with less than 8" DBH and alder with less than 10" DBH were not recorded. On the count plots the tree count by species was recorded. On the measure plots the species; diameter at breast height; height to a 5" merchantable top for conifer and 8" for alder; form factor at 16' for conifer (averaging 81) and a form factor of 85 was used for hardwoods; grades, lengths and defect of each segment was recorded.

**B. Plot size**

A 20 BAF was used for tree selection at each point. Point of observation was at 4.5 feet.

**C. Grading System**

Trees were graded following the Columbia River Official Log Scaling and Grading Bureau rules.

**5. Computation Procedure**

The volumes and statistics were computed using Atterbury Consultants SuperAce98 program. The coefficient of variation and standard error was 33.5% and 8.6% for Area 1; 39.9% and 8.5% for Area 2; 24.9% and 10.2% for Area 3; and 45.5% and 10.2% for Area 4.

**6. Hidden Defect and Breakage**

Five percent of gross volume was subtracted to account for hidden defect and breakage.

**7. Timber Description**

The sale areas burned during the 1933 Tillamook fire and the 1939 Saddle Mountain fire and were planted or seeded between 1954 and 1963. The majority of the acres have been commercially thinned in the last 5 to 10 years. The current stands are classed UDS. There are some hard snags created from wind, snow, and bear damage as well as older snags from the burns. Down wood is composed of scattered large old logs (36+) from salvage in decay class 3 and 4 and thinning slash and recent windthrow in decay class 1 and 2. Understory vegetation consists of sword fern, salmonberry, Oregon grape, and vine maple. Swiss needle cast infection is considered to be severe in this area.

**8. Cruiser Names/Dates**

Tod Haren, Ole Buch, John Pine; April 2003

**9. Revenue Distribution**

100% FDF

Tax Code: 56

Deed Number: 161

100% Rehabilitation Obligated

**10. Attachments**

Volume Summary

Logging Plan





**Timber Sale Appraisal  
Volume Summary  
Same Wolf  
Sale 341-03-087**

"STEWARDSHIP IN FORESTRY"

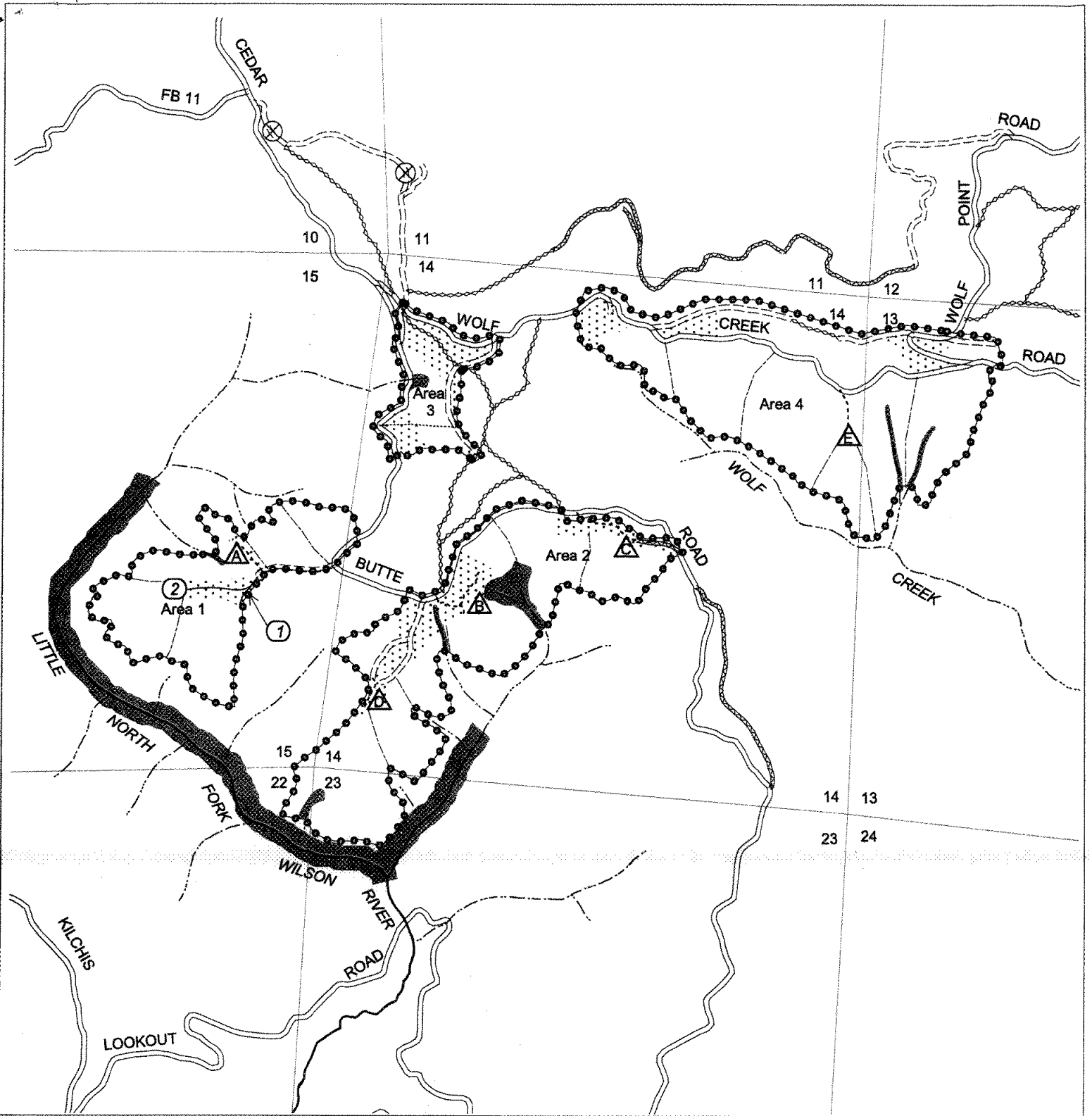
<b>Area 1</b>					
51 acres					
SPECIES	Trees Per Ac.	Vol/Acre MBF	Gross MBF	D & B	Net Vol MBF
Douglas-fir	105	11.7	597	5%	567
<b>TOTAL</b>	<b>105</b>	<b>11.7</b>	<b>597</b>		<b>567</b>

<b>Area 2</b>					
92 acres					
SPECIES	Trees Per Ac.	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	158	10.9	1003	5%	953
<b>TOTAL</b>	<b>158</b>	<b>10.9</b>	<b>1003</b>		<b>953</b>

<b>Area 3</b>					
16 acres					
SPECIES	Trees Per Ac.	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	99	9.0	144	5%	137
<b>TOTAL</b>	<b>99</b>	<b>9.0</b>	<b>144</b>		<b>137</b>

<b>Area 4</b>					
108 acres					
SPECIES	Trees Per Ac.	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	91	10.1	1091	5%	1036
<b>TOTAL</b>	<b>91</b>	<b>10.1</b>	<b>1091</b>		<b>1036</b>

<b>TOTAL SALE VOLUME</b>			
267 acres			
SPECIES	MBF	MBF NET	
Douglas-fir	2835	2693	
<b>TOTAL</b>	<b>2835</b>	<b>2693</b>	



- Tractor landing
- Cable landing
- ▲ Domestic water supply
- ⊗ Block
- Cable yarding
- ▨ Ground yarding
- ▩ Helicopter yarding
- Buffer
- Non-required thinning
- ▨ Green tree retention area
- Setting boundary
- Area boundary
- Sale boundary
- Ownership boundary
- Type-F stream
- Type-N stream
- ==== Surfaced road
- Unsurfaced road
- ==== State highway
- ==== County road
- ② Non-project road
- Swing road
- Abandoned road
- OHV trail
- Non-motorized trail

**LOGGING PLAN**  
 Timber Sale Contract No. 341-03-87  
 Same Wolf  
 Portions of sections 13, 14, 15, 22, 23  
 T1N, R8W, W. M.  
 Tillamook County, Oregon

Area	Type of Operation	Sale	Net
1	Clearcut	52	51
2	Clearcut	101	92
3	Clearcut	20	16
4	Clearcut	114	108
<b>Total</b>		<b>287</b>	<b>267</b>





## OREGON DEPARTMENT OF FORESTRY WRITTEN PLAN

**SALE NAME:** Same Wolf

**LOCATION:** Portions of Section 14,15, 22, and 23, T1N, R8W , W.M., Tillamook County, Oregon.

**ACTIVITIES:** Logging cables strung across Type F streams for deflection purposes.

**PROTECTED RESOURCES:**

**Streams:** Medium Type F Stream – Little North Fork Wilson River

**Riparian Management Area (RMA):** The area within 100 feet slope distance from the high water mark on each side of Type F streams.

**PROTECTION MEASURES:**

**YARDING and FELLING:**

- Trees felled for cable corridors within the RMA will be incidental and will not be removed. These trees will be felled away from or parallel to the aquatic area.
- When cable yarding lines are strung across RMA's they will be an average of at least 150 feet apart and they will be pulled out of RMA prior to rigging the next yarding road.
- If trees or logs fall or slide into a stream channel they will not be limbed, bucked, or removed without prior approval from State.
- Operator will minimize disturbances in the RMA and take all necessary precautions to protect RMA components.
- Ground yarding equipment will not be operated within the RMA unless otherwise approved by ODF.

**PREPARED BY:** Tona Mortensen  
Forester, Central Unit  
May 4, 2003