



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Cost Summary Anderson Point Sale 341-06-12

District: Tillamook

Date: 5/6/05

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$176,288.22	\$326,914.36	\$503,202.58
		Project Work	(\$116,651.00)
		Advertised Value	\$386,551.58



Timber Sale Appraisal Timber Description Anderson Point Sale 341-06-12

"STEWARDSHIP IN FORESTRY"

District: Tillamook

Location: Sections 2 and 3, T2N, R9W, W.M., Tillamook, Oregon.

Date: 5/6/05

Stand Stocking: 60%

Species	Avg. DBH	Amortized%	Recovery%
Douglas - Fir	13	0	95
Western Hemlock / Fir	14	0	95
Alder (Red)	14	0	95

Volume by Grade	Douglas - Fir	Western Hemlock / Fir	Alder (Red)	Total
2S	65	14	0	79
3S	408	122	0	530
4S	166	50	0	216
Camprun	0	0	1,237	1,237
Total	639	186	1,237	2,062

Comments: Pond Values Used: 1st Quarter 2005.

Cedar Stumpage: \$ 865.00/ MBF (pond value) - \$ 339.65/ MBF (logging cost)
= \$ 525.35/MBF (Pond value used 1st Quarter 2005)

Additional Costs (Profit and Risk to be added):

Brand and Paint: \$2 /MBF x 2,062 MBF = \$ 4,124
Slash piling and sorting (modified clearcut cable harvest):
Area 1: 102 acres @ 1 hour/ 50 acres x \$ 110/ hour = \$ 224
Area 2: 31 acres @ 1 hour/ 50 acres x \$110/ hour = \$ 68
Area 1 and 2 total: \$ 292

Tractor Swing:
Area 1: 265 MBF x \$ 125.00/MBF = \$ 33,125
Area 2: 249 MBF x \$ 70.12/MBF = \$ 17,460
Area 1 and 2 total: \$ 50,585

Yarder move in and out of swing landings:
Area 1: 3 hours each way with D7 dozer @ \$115/hour = \$ 690
Area 2: 2 hours each way with D7 dozer @ \$115/hour = \$ 460

Total other costs + P&R = \$ 56,151

Additional Costs (Profit and Risk Included):

Construct non-project road in Area 1: 13+08 stations @ \$ 200/station = \$ 2,616
Pull back sidecast adjacent to non-project road in Area 1: 13+08 stations @ \$100/station = \$ 1,308

Total other costs without P&R = \$ 3,924

Road Maintenance

Grading (twice during the contract)
\$ 500/ mile x 2 Gradings x 4 ½ miles / 2,062 MBF = \$ 2.18

Maintenance Rock (from commercial source) - approximately 25 yds³ / MMBF / 4 ½ haul miles
230 yards³ x \$ 21.26/ yard / 2,062 MBF = \$ 2.37

Total Maintenance Cost = \$ 4.55



Timber Sale Appraisal Logging Conditions Anderson Point Sale 341-06-12

"STEWARDSHIP IN FORESTRY"

Combination#: 1	Douglas - Fir	50.27%	
	Western Hemlock / Fir	47.30%	
	Alder (Red)	73.47%	
Yarding Distance:	Long (1,500 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:	4		Bd. Ft./Load: 3,200
Cost/MBF:	\$228.47		
Machines:	Log Loader (A)		
	Stroke Delimber (A)		
	Tower Yarder (Medium)		
Combination#: 2	Douglas - Fir	10.30%	
	Western Hemlock / Fir	9.69%	
	Alder (Red)	15.05%	
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:	4		Bd. Ft./Load: 3,200
Cost/MBF:	\$256.46		
Machines:	Log Loader (A)		
	Stroke Delimber (A)		
	Tower Yarder (Medium)		
Combination#: 3	Douglas - Fir	37.72%	
	Western Hemlock / Fir	41.40%	
	Alder (Red)	10.99%	
Yarding Distance:	Short (400 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:	5		Bd. Ft./Load: 3,200
Cost/MBF:	\$186.85		
Machines:	Log Loader (A)		
	Stroke Delimber (A)		
	Tower Yarder (Medium)		
Combination#: 4	Douglas - Fir	1.72%	
	Western Hemlock / Fir	1.61%	
	Alder (Red)	0.49%	

Yarding Distance: Short (400 ft)

Downhill Yarding: Yes

Logging System: Shovel

Process: Manual Delimiting

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

Loads/Day: 8

Bd. Ft./Load: 3,200

Cost/MBF: \$90.69

Machines:

Shovel Logger



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Logging Costs Anderson Point Sale 341-06-12

Date: 5/6/05

Operating Seasons: 1.6

Profit & Risk: 15%

Project Costs: \$116,651

Other Costs (P/R): \$56,151

Slash Disposal: \$0

Other Costs: \$3,924

Road Maintenance: \$4.55

Miles of Road			
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	2.0	3.1
Western Hemlock / Fir	\$0.00	3.0	3.5
Alder (Red)	\$0.00	3.0	3.4



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Logging Costs Breakdown Anderson Point Sale 341-06-12

Costs	Douglas - Fir	Western Hemlock / Fir	Alder (Red)
Logging	213.28	211.73	227.44
Road Maintenance	4.79	4.79	4.79
Fire Protection	2.10	2.10	2.10
Hauling	69.16	46.11	46.11
Other (P/R appl.)	27.23	27.23	27.23
Profit & Risk	47.48	43.79	46.15
Slash Disposal	0.00	0.00	0.00
Scaling	2.00	2.00	0.00
Other	1.90	1.90	1.90
Total	367.94	339.65	355.72

Amortization	0.00	0.00	0.00
Pond Value	617.24	430.97	620.00
Stumpage	249.30	91.32	264.28
Amortized	0.00	0.00	0.00



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Summary Anderson Point Sale 341-06-12

Amortized

	Douglas - Fir	Western Hemlock / Fir	Alder (Red)
MBF	0.00	0.00	0.00
Value	0.00	0.00	0.00
Total	0.00	0.00	0.00

Unamortized

	Douglas - Fir	Western Hemlock / Fir	Alder (Red)
MBF	639.00	186.00	1,237.00
Value	249.30	91.32	264.28
Total	159,302.70	16,985.52	326,914.36

Gross Timber Sale Value

Recovery \$503,202.58

Prepared by: David Wells

Date: 5/6/05

District: Tillamook

Phone: (503) 842-2545



PROJECT SUMMARY SHEET

Sale: Anderson Point

CONSTRUCTION

Point	A to B	11+75	stations =	\$7,172.41
SUBTOTAL CONSTRUCTION				\$7,172.41

IMPROVEMENT

Point	C to D	18+55	stations =	\$78,027.53
Point	E to F	6+65	stations =	\$27,512.75
SUBTOTAL IMPROVEMENT				\$105,540.28

MOVE IN				\$3,938.39
----------------	--	--	--	-------------------

GRAND TOTAL	\$116,651.08
--------------------	---------------------

SUMMARY OF CONSTRUCTION COST

Sale:	<u>Anderson Point</u>	Road:	<u>A to B</u>
Construction -	<u>11+75</u> stations <u>0.22</u> miles	Improvement -	<u>0+00</u> stations <u>0.00</u> miles
CLEARING AND GRUBBING -			
Endhaul	1.080 acres @	\$1,500.00 per acre =	<u>\$1,620.00</u>
		TOTAL CLEARING AND GRUBBING	\$1,620.00
EXCAVATION -			
Road Earthwork: 0+00 to 11+75	11.75 sta. @	\$100.00 per sta. =	\$1,175.00
Cribbing Removal: 9+60 to 9+85	1.5 Hrs. @	\$140.00 per Hour=	\$210.00
Widening: 9+60 to 9+85	2.0 Hrs. @	\$140.00 per Hour=	\$280.00
Construct Turnaround 6+90	1 @	\$75.00 each =	<u>\$75.00</u>
		TOTAL EXCAVATION	\$1,740.00
ENDHAUL -			
Cribbing Removal: 9+60 to 9+85	2.0 Hrs. @	\$60.00 per Hour=	\$120.00
Widening Material: 9+60 to 9+85	2.5 Hrs. @	\$60.00 per Hour=	\$150.00
Spread & compact	1.0 Hrs. @	\$90.00 per Hour=	<u>\$90.00</u>
		TOTAL ENDHAUL	\$360.80
CULVERTS - MATERIALS & INSTALLATION			
	<u>Culverts</u>		
	0 LF of 66"	\$0.00	
		0 LF of 72"	<u>\$0.00</u>
		TOTAL CULVERTS	\$0.00
ROCK			
0+00 to 11+75	782 cy. of Pit-Run @	\$2.43 per c.y.=	<u>\$1,900.26</u>
		TOTAL ROCK	\$1,900.26
SPECIAL PROJECTS			
Construct waste areas -	1.00 hours @	\$90.00 per hour	\$90.00
Grade and shape road -	11.75 stations @	\$14.20 per station	\$166.85
Construct Road Dip (Sta. 4+00 & 6+90)-	2.00 @	\$150.00 each	\$300.00
Proof-Roll subgrade prior to rocking	11.75 stations @	\$3.00 per station	\$35.25
Roll subgrade w/ vibratory roller prior to rocking -	11.75 stations @	\$11.00 per station	\$129.25
Remove large stumps -	lump sum		\$420.00
Grass seed and fertilize -	0.5 acres @	\$220.00 per acre	\$110.00
Mulching -	0.5 acres @	\$600.00 per acre	<u>\$300.00</u>
		TOTAL SPECIAL PROJECTS	\$1,551.35
GRAND TOTAL			\$7,172.41

SUMMARY OF CONSTRUCTION COST

Sale:	<u>Anderson Point</u>		Road: <u>C to D</u>				
Construction -	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td style="text-align: center;">0+00</td><td style="text-align: right;">stations</td></tr> <tr><td style="text-align: center;">0.00</td><td style="text-align: right;">miles</td></tr> </table>	0+00	stations	0.00	miles		Improvement -
0+00	stations						
0.00	miles						
			<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td style="text-align: center;">18+55</td><td style="text-align: right;">stations</td></tr> <tr><td style="text-align: center;">0.35</td><td style="text-align: right;">miles</td></tr> </table>	18+55	stations	0.35	miles
18+55	stations						
0.35	miles						
CLEARING AND GRUBBING -							
Endhaul		1.41 acres @	\$1,500.00 per acre = <u>\$2,115.00</u>				
			TOTAL CLEARING AND GRUBBING				
			\$2,204.10				
EXCAVATION -							
Pullback		666 cy. @	\$1.40 per c.y. = \$932.40				
Construction (Common)		5077 cy. @	\$1.15 per c.y. = \$5,838.55				
Construction (Rippable)		7343 cy. @	\$2.25 per c.y. = \$16,521.75				
Construction (Solid)		1358 cy. @	\$4.90 per c.y. = \$6,654.20				
			TOTAL EXCAVATION				
			\$29,946.90				
ENDHAUL -							
Pullback	1+00 to 1+50	89 cy. @	\$2.02 per c.y. = \$179.78				
Pullback	2+15 to 2+65	89 cy. @	\$2.05 per c.y. = \$182.45				
Pullback	3+15 to 3+65	100 cy. @	\$2.06 per c.y. = \$206.00				
Pullback	4+55 to 5+30	200 cy. @	\$2.09 per c.y. = \$418.00				
Pullback	8+55 to 9+90	188 cy. @	\$2.17 per c.y. = \$407.96				
Common		4983 cy. @	\$2.18 per c.y. = \$10,862.94				
Rippable		5421 cy. @	\$2.18 per c.y. = \$11,817.78				
Solid		1223 cy. @	\$2.18 per c.y. = \$2,666.14				
Spread & compact (Fills)		94 cy. @	\$0.35 per c.y. = \$32.90				
Spread & compact (Waste Area)		12293 cy. @	\$0.20 per c.y. = \$2,458.60				
			TOTAL ENDHAUL				
			\$29,232.55				
CULVERTS - MATERIALS & INSTALLATION							
	<u>Culverts</u>						
	64	LF of 18"	<u>\$1,024.00</u>				
		42 LF of 24"	<u>\$945.00</u>				
	<u>Culvert Stakes & Markers</u>						
	0 stakes		\$0.00				
	3 markers		<u>\$24.00</u>				
			<u>\$24.00</u>				
		<u>Installation, Band, & Culvert Sleeve</u>					
		18" Band	\$20.48				
		25' Culvert Sleeve:	\$191.42				
		1 Hour Labor:	\$28.00				
			TOTAL CULVERTS				
			\$2,232.90				
ROCK							
6+00 to 18+55	268 cy. of	Crushed	@ \$20.37 per c.y. = \$5,459.16				
Culvert Bedding/Backfill Sta. 6+40	25 cy. of	Pit-Run	@ \$2.14 per c.y. = \$53.50				
Energy Dissipator Sta. 6+15 - 6+50	60 cy. of	Riprap	@ \$3.59 per c.y. = \$215.40				
0+00 to 10+15	650 cy. of	Pit-Run	@ \$2.40 per c.y. = \$1,560.00				
10+15 to 18+55	688 cy. of	Pit-Run	@ \$6.04 per c.y. = \$4,155.52				
			TOTAL ROCK				
			\$11,443.58				
SPECIAL PROJECTS							
Construct waste areas -		2.00 hours @	\$130.00 per hour = \$260.00				
Construct ditchouts - Sta. 14+30, 15+00, 17+95		4.00 @	\$60.00 each = \$240.00				
Construct Rolling Dips - Sta. 4+90, 6+15, 10+20		3.00 @	\$150.00 each = \$450.00				
Construct Sediment Catch Basins: Sta. 6+65		1.00 @	\$35.00 per hour = \$35.00				
Straw Bales:		1.00 bale @	\$6.00 per bale = \$6.00				
Grade and shape road (ditched)- Sta. 0+00 - 1+50, 6+40 - 10+15, 10+90 - 18+55		12.99 stations @	\$14.20 per station = \$184.46				
Grade and Shape Road (outsloped)- Sta. 1+50 - 6+40 & 10+15 - 10+90		5.56 stations @	\$9.75 per station = \$54.21				
Proof-roll subgrade		18.55 stations @	\$3.00 per station = \$55.65				
Roll subgrade w/ vibratory roller prior to rocking -		18.55 stations @	\$11.00 per station = \$204.05				
Remove large stumps -		Lump Sum	\$953.33				
Grass seed and fertilize -		0.64 acres @	\$220.00 per acre = \$140.80				
Mulching -		0.64 acres @	\$600.00 per acre = \$384.00				
			TOTAL SPECIAL PROJECTS				
			\$2,967.50				
			GRAND TOTAL				
			\$78,027.53				

SUMMARY OF CONSTRUCTION COST

Sale:	<u>Anderson Point</u>		Road:	<u>E to F</u>
Construction -	<u>0+00</u> stations <u>0.00</u> miles		Improvement -	<u>6+65</u> stations <u>0.13</u> miles
CLEARING AND GRUBBING -				
Endhaul		0.58 acres @	\$1,500.00 per acre =	<u>\$870.00</u>
			TOTAL CLEARING AND GRUBBING	\$870.00
EXCAVATION -				
Pullback		167 cy. @	\$1.40 per c.y.=	\$233.80
Construction (Common)		1557 cy. @	\$1.15 per c.y.=	\$1,790.55
Construction (Rippable)		3416 cy. @	\$2.25 per c.y.=	\$7,686.00
Construction (Solid)		[REDACTED] cy. @	\$4.90 per c.y.=	<u>\$3,101.70</u>
			TOTAL EXCAVATION	\$12,812.05
ENDHAUL -				
Pullback	2+35 to 3+60	167 cy. @	\$1.46 per c.y.=	\$243.82
Common		1424 cy. @	\$1.46 per c.y.=	\$2,079.04
Rippable		3416 cy. @	\$1.46 per c.y.=	\$4,987.36
Solid		633 cy. @	\$1.46 per c.y.=	\$924.18
Spread & compact (Fills)		133 cy. @	\$0.35 per c.y.=	\$46.55
Spread & compact (Waste Area)		5640 cy. @	\$0.20 per c.y.=	<u>\$1,128.00</u>
			TOTAL ENDHAUL	\$9,408.95
CULVERTS - MATERIALS & INSTALLATION				
	<u>Culverts</u>			
	30 LF of 18"	<u>\$480.00</u>	32 LF of 24"	<u>\$720.00</u>
	<u>Culvert Stakes & Markers</u>			
	2 markers	<u>\$16.00</u>		
			TOTAL CULVERTS	\$1,216.00
ROCK				
2+60 to 4+85	43 cy. of	Crushed	@	\$20.38 per c.y.=
Culvert Backfill Sta. 3+10	20 cy. of	Pit-Run	@	\$2.34 per c.y.=
Energy Dissipater: Sta. 0+00	30 cy. of	Riprap	@	\$3.69 per c.y.=
0+00 to 6+65	445 cy. of	Pit-Run	@	\$2.53 per c.y.=
				<u>\$1,125.85</u>
			TOTAL ROCK	\$2,159.69
SPECIAL PROJECTS				
Construct waste areas -	2.00 hours @	\$130.00 per hour		\$260.00
Construct Sediment Catch Basins - Sta. 3+35	1.00 @	\$35.00 each		\$35.00
Straw Bales:	1.00 bale @	\$6.00 per bale		\$6.00
Grade and shape road -	6.65 stations @	\$14.20 per station		\$94.43
Roll subgrade w/ vibratory roller prior to rocking -	6.65 stations @	\$11.00 per station		\$73.15
Proof-Roll subgrade prior to rocking	6.65 stations @	\$3.00 per station		\$19.95
Remove large stumps -		lump sum		\$303.33
Grass seed and fertilize -	0.31 acres @	\$220.00 per acre		\$68.20
Mulching -	0.31 acres @	\$600.00 per acre		<u>\$186.00</u>
			TOTAL SPECIAL PROJECTS	\$1,046.06
GRAND TOTAL				\$27,512.75

PIT-RUN ROCK DEVELOPMENT COST SUMMARY

Pit:	Widening/Excavation	Location:	Road Segment C-D
Sale:	Anderson Point	Road:	1922 c.y.
Swell:	1.40	Stockpile:	c.y.
Shrinkage	1.16	Total Truck Loads:	1922 c.y.
Drill Pct.:	0%	In Place Total:	1373 c.y.

Load Dump Truck: \$0.60 /cu.yd. x 1922 cu.yds. = \$1,153.20
Subtotal \$1,153.20

Move in Grader within area: 0.21 miles @ \$44.80/Mile = \$9.41
 Move in D-8 within area: 0.21 miles @ \$15.10/Mile = \$3.17
 Move in Trucks within area: 0.21 miles @ \$2.85/Mile = \$1.20
Subtotal \$13.78

TOTAL PRODUCTION COSTS \$1,166.98

Base Cost= \$0.61 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
A to B	\$0.92	\$0.90	\$0.61	\$2.43	782	\$1,900.26
C to D Bedding/Backfill	\$0.93	\$0.60	\$0.61	\$2.14	25	\$53.50
C to D (0+00 to 10+15)	\$0.89	\$0.90	\$0.61	\$2.40	650	\$1,560.00
E to F Bedding/Backfill	\$1.13	\$0.60	\$0.61	\$2.34	20	\$46.80
E to F	\$1.02	\$0.90	\$0.61	\$2.53	445	\$1,125.85
Total C.Y.					1922	Sub Total \$3,460.26

	TOTAL ROCKING COSTS	\$3,460.26
--	---------------------	------------

RIPRAP ROCK PIT DEVELOPMENT COST SUMMARY

Pit:	Widening/Excavation	Location:	Road Segment C to D
Sale:	Anderson Point	Road:	135 c.y.
Swell:	1.40	Stockpile:	c.y.
Shrinkage	1.16	Total Truck Loads:	135 c.y.
Drill Pct.:	0%	In Place Total:	96 c.y.

Load RipRap: _____ \$1.40 /cu.yd. x _____ 135 cu.yds. = _____ \$189.00
Subtotal \$189.00

Final Base Cost= _____ \$1.40 _____ Per Cu.Yd.

Road Segment	Haul Cost /cu.yd.	Placement Cost /cu.yd.	Base Cst. /cu.yd.	Cost /cu.yd.	Number Cu. Yds	ROCK COST
C to D: 6+00 to 18+55	0.79	1.40	1.40	3.59	60	215.40
E to F: 2+60 to 4+85	0.89	1.40	1.40	3.69	30	110.70
Total C.Y.					135	Sub Total 447.60

TOTAL ROCKING COSTS	447.60
---------------------	--------

RIPRAP ROCK PIT DEVELOPMENT COST SUMMARY

Pit:	Widening/Excavation	Location:	Road Segment C to D
Sale:	Anderson Point	Road:	135 c.y.
Swell:	1.40	Stockpile:	c.y.
Shrinkage	1.16	Total Truck Loads:	135 c.y.
Drill Pct.:	0%	In Place Total:	96 c.y.

Load RipRap: _____ \$1.40 /cu.yd. x _____ 135 cu.yds. = _____ \$189.00
Subtotal \$189.00

Final Base Cost= \$1.40 Per Cu.Yd.

Road Segment	Haul Cost /cu.yd.	Placement Cost /cu.yd.	Base Cst. /cu.yd.	Cost /cu.yd.	Number Cu. Yds	ROCK COST
C to D: 6+00 to 18+55	0.79	1.40	1.40	3.59	60	215.40
E to F: 2+60 to 4+85	0.89	1.40	1.40	3.69	30	110.70
				Total C.Y.	135	Sub Total
						447.60

TOTAL ROCKING COSTS 447.60

CRUSHED ROCK COST SUMMARY

Pit:	Crushing Pit		Location:	Sec. , TN, RW, W.M.
Sale:	Anderson Point		Road:	311 c.y.
Swell:	1.40		Stockpile:	c.y.
Shrinkage:	1.16		Total Truck Loads:	311 c.y.
Drill Pct.:	100%		In Place Total:	222 c.y.

Move in Loader					=	\$0.00
Move in Trucks		within area:	16 miles @ \$2.85/Mile		=	\$136.80
					Subtotal	\$136.80

Mohler Sand and Gravel:	\$8.60	Per Cu.Yd.				
Other Base Cost:	\$0.44	Per Cu.Yd.			TOTAL PRODUCTION COSTS	\$136.80
Final Base Cost:	\$9.04	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
C to D: 6+00 to 18+55	10.03	1.30	9.04	20.37	268	5,459.16
E to F: 2+60 to 4+85	10.04	1.30	9.04	20.38	43	876.34
				Total C.Y.	311	Sub Total
						6,335.50

TOTAL ROCKING COSTS	6,335.50
---------------------	----------

Move-In Calculations

Sale: Anderson Point

DIST. (mi)	ROADWAY	AVE SPEED (mph)
50.0	Highway	37
14.0	Main Lines	11
4.0	Steep Grades	5

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	\$521.27		\$46.00	0.00	0.48	0.48	\$22.08	\$543.35
0	Brush Cutter	\$0.00		\$4.00	0.00	0.00	0	\$0.00	\$0.00
1	Graders	\$231.17		\$3.65	0.00	0.48	0.48	\$1.75	\$232.92
0	Loader (Small)	\$0.00	1	\$3.55	0.00	0.00	0	\$0.00	\$0.00
0	Loader (Med. & Large)	\$0.00	1	\$9.00	0.00	0.00	0	\$0.00	\$0.00
2	Rollers (grid/Smooth) & Compactors	\$1,042.54		\$5.00	0.00	0.48	0.48	\$4.80	\$1,047.34
0	Excavators (Small)	\$0.00		\$22.00	0.00	0.00	0	\$0.00	\$0.00
0	Excavators (Med.)	\$0.00		\$35.50	0.00	0.00	0	\$0.00	\$0.00
1	Excavators (Large)	\$786.53	1	\$44.80	0.00	0.48	0.48	\$21.50	\$808.03
0	Tired Backhoes/Skidders	\$0.00		\$3.00	0.00	0.00	0	\$0.00	\$0.00
0	Tractors (D6)	\$0.00	2	\$7.10	0.00	0.00	0	\$0.00	\$0.00
0	Tractors (D7)	\$0.00	2	\$11.30	0.00	0.00	0	\$0.00	\$0.00
1	Tractor (D8)	\$754.61	2	\$15.10	0.00	0.48	0.48	\$7.25	\$761.86
2	Dump Truck (10 cy +)	\$340.60		\$2.85	0.00	0.48	0.48	\$2.74	\$343.34
0	Dump Truck (Off Hiway)	\$0.00	1	\$4.75	0.00	0.00	0	\$0.00	\$0.00
0	Water Truck (1500 Gal)	\$0.00		\$2.85	0.00	0.00	0	\$0.00	\$0.00
1	Water Truck (2500 Gal)	\$200.18		\$2.85	0.00	0.48	0.48	\$1.37	\$201.55
0	Jaw	\$1,066.00							
0	2-Stage Crusher	\$1,597.00							
0	3-Stage Crusher	\$2,489.00							

	TOTAL MOVE-IN COSTS:	\$3,938.39
--	-----------------------------	-------------------



OREGON DEPARTMENT OF FORESTRY

CRUISE REPORT

Anderson Point

1. **Type of Sale**

Modified clear cut – Recovery/Cash

2. **Legal Description**

Portions of Sections 2 and 3, T2N, R9W, WM, Tillamook County, Oregon.

3. **Sale Acreage**

	ACRES			
<u>Area</u>	<u>Sale</u>	<u>Total</u>	<u>Net</u>	
1	108	102	102	
2	<u>38</u>	<u>31</u>	<u>31</u>	
Total	146	133	133	

Sale Acres: Area within the Timber Sale Boundary signs.

Total Acres: Sale acres, plus green tree retention areas outside the timber sale boundary; less roads and riparian areas classified as Special Stewardship in LMCS inside the sale boundary. For accomplishment reporting – clearcut (regeneration) harvest.

Net acres: Used for calculating the advertised volume.

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

Partial Cut - Sale acres minus areas of low stocking, hardwoods, roads, and riparian areas classified as Special Stewardship in LMCS inside the sale boundary.

4. **Cruising Procedures**

A. Cruise Method

Areas 1 and 2 were cruised using variable radius plots. 29 plots were established in Area 1 and 20 plots in Area 2 for a total of 49 plots. In Area 1 plots were 250' apart on lines spaced at 500' intervals. On Area 2 plots were 200' apart on lines spaced at 300' intervals.

The right-of-way outside the sale area boundaries was strip cruised at a 20% sampling intensity.

Diameters and species were recorded and all trees were graded and measured for merchantable height and form factor.

B. Plot size

A basal area factor of 28 was used in Areas 1 and 2. The point of observation was at 4.5 feet.

C. Grading System

All trees were graded according to Columbia River Log Scaling and Grading Rules. Douglas-fir trees and all other conifer trees were measured to a 5-inch top or 6-inch top respectively and hardwood trees were measured to an 8-inch top, both favoring 40-foot lengths. All heights were measured to the nearest foot. All diameters were measured at a height of 4.5 feet to the nearest 1-inch. Conifers less than 20 board feet and hardwoods less than 30 board feet were not recorded.

5. Computation Procedure

Sale volume was computed using the Atterbury SuperA.C.E.98 program. Residual and surplus conifer trees were designated on each cruise plot to develop a stand table, which was used to expand the volume for the sale.

6. Hidden Defect and Breakage

A 5% deduction was applied to the volume to account for the defect and breakage.

7. Timber Description

This area was burned in the 1933 Tillamook Fire and also burned in the 1945 Wilson River Fire. The timber on sale area is 50-55 years old. The area is a mixed stand of hemlock, Douglas-fir and other conifers, and alder mostly from natural regeneration. A portion of Area 2 was seeded in 1957. Conifers dominate the ridges and upper slopes with alder in the lower 1/3 of the sale. The alder within Area 2 was treated with herbicide in the 1970's and has short boles and multiple tops. The current stand condition is understory.

8. Cruiser Names/Dates

Phillips/ Wilson/ Winslow/ Wells, September and October 2004, February 2005.

9. Revenue Distribution

FDF: 100%

Tax Code: 56-1 - 100%

Deed Numbers: 15 - 100%

Rehabilitation Obligated – 12%

10. Attachments

Stand Tables

Volume Summary

Logging Plan

Stand Table Summary																
TC TSTNDSUM		Anderson point Project ANDPOINT AREA 1														
T02N R09W S02 T0120				DF & WH = TAKE TREES					T02N R09W S02 T0120							
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees		Page:	1						
02N	09W	02	1000	0120	1.00	29	195		Date:	4/28/2001						
									Time:	7:09:12AM						
S Spec	T	Sample DBH	FF Trees	Av Ht 16' Tot	Trees/ Acres	BA/ Acres	Logs Acres	Average Log		Net Tons/ Acres	Net Cu.Ft. Acres	Net Bd.Ft. Acres	Totals			
								Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF	
RA		10	4	87	50	6.995	3.83	6.99	9.1	37.1	1.76	64	259	2	1	0
RA		11	5	89	46	7.208	4.79	7.21	10.4	41.9	2.06	75	302	2	1	0
RA		12	19	90	63	23.658	18.20	24.84	15.6	63.5	10.67	388	1,577	11	4	2
RA		13	17	92	68	17.680	16.28	22.85	17.0	71.0	10.71	390	1,622	11	4	2
RA		14	14	82	81	12.760	13.41	16.45	21.1	76.4	9.56	348	1,257	10	3	1
RA		15	13	92	72	10.394	12.45	13.55	23.9	99.9	8.91	324	1,354	9	3	1
RA		16	16	93	75	10.985	15.33	14.48	28.9	116.8	11.52	419	1,691	12	4	2
RA		17	9	92	79	5.515	8.62	8.62	30.0	125.2	7.11	259	1,079	7	3	1
RA		18	5	93	70	2.761	4.79	3.32	36.7	139.3	3.35	122	462	3	1	0
RA		19	7	92	79	3.475	6.71	6.45	33.3	135.2	5.91	215	873	6	2	1
RA		20	6	92	71	2.657	5.75	4.00	39.4	159.9	4.33	157	639	4	2	1
RA		21	1	93	35	.410	.96	.41	36.7	50.0	.41	15	20	0	0	0
RA		22	1	92	65	.380	.96	.76	34.4	155.0	.72	26	118	1	0	0
RA	Totals	117	90	68		104.878	112.08	129.93	21.6	86.6	77.00	2,801	11,253	77	28	11
DF		9	2	84	48	4.436	1.92	4.44	6.5	30.2	.82	29	134	1	0	0
DF		10	3	85	46	5.580	2.87	5.58	8.1	27.0	1.29	45	151	1	0	0
DF		11	3	87	60	4.285	2.87	4.28	13.9	46.4	1.70	60	199	2	1	0
DF		12	5	87	64	6.064	4.79	7.26	13.6	49.5	2.82	99	359	3	1	0
DF		13	4	88	78	4.210	3.83	6.39	15.8	56.6	2.87	101	361	3	1	0
DF		14	4	85	80	3.640	3.83	5.50	19.4	67.2	3.04	107	369	3	1	0
DF		15	2	87	77	1.671	1.92	2.51	20.9	80.0	1.49	52	200	1	1	0
DF		16	6	88	80	4.171	5.75	6.95	23.0	75.8	4.55	160	527	5	2	1
DF		17	4	87	102	2.375	3.83	4.75	28.7	111.3	3.88	136	529	4	1	1
DF		18	4	82	106	2.237	3.83	5.02	28.2	99.0	4.04	141	497	4	1	0
DF		19	5	87	109	2.388	4.79	4.78	38.1	143.8	5.18	182	687	5	2	1
DF	Totals	42	86	71		41.057	40.23	57.46	19.3	69.9	31.68	1,112	4,014	32	11	4
DL		20	1	89	102	.453	.96	.91	40.1	150.0	1.00	36	136	1	0	0
DL		21	2	90	117	.778	1.92	1.95	40.8	180.0	2.18	79	350	2	1	0
DL		22	3	89	103	1.073	2.87	2.52	41.2	168.6	2.85	104	424	3	1	0
DL		23	2	87	112	.667	1.92	1.66	46.3	190.4	2.12	77	317	2	1	0
DL		24	1	87	118	.310	.96	.62	56.1	215.0	.96	35	133	1	0	0
DL		26	1	90	124	.256	.96	.77	55.7	243.3	1.17	43	187	1	0	0
DL		27	1	87	167	.237	.96	.71	71.4	350.0	1.40	51	249	1	1	0
DL		28	1	90	127	.218	.96	.65	67.0	323.3	1.20	44	211	1	0	0
DL	Totals	12	89	115		3.991	11.50	9.79	47.9	205.2	12.88	469	2,008	13	5	2
WH		8	1	81	17	2.744	.96									
WH		10	1	84	36	1.906	.96	1.91	6.9	30.0	.42	13	57	0	0	0
WH		11	2	83	55	2.881	1.92	2.88	14.5	40.0	1.33	42	115	1	0	0
WH		12	3	81	58	3.561	2.87	3.56	17.0	53.5	1.93	60	190	2	1	0
WH		17	2	85	90	1.223	1.92	2.45	26.0	101.5	2.03	64	248	2	1	0
WH		18	1	86	100	.524	.96	1.05	33.1	120.0	1.11	35	126	1	0	0
WH		19	2	93	113	.964	1.92	2.39	35.1	158.6	2.69	84	380	3	1	0
WH	Totals	12	83	55		13.803	11.50	14.24	20.9	78.4	9.53	298	1,117	10	3	1
WL		21	1	93	90	.398	.96	.80	43.4	165.0	1.11	35	131	1	0	0
WL		22	1	87	108	.360	.96	.72	47.0	165.0	1.08	34	119	1	0	0
WL		23	1	80	122	.347	.96	1.04	40.0	143.3	1.33	42	149	1	0	0
WL		25	1	92	109	.293	.96	.88	47.9	236.7	1.34	42	208	1	0	0
WL		27	1	87	125	.237	.96	.71	57.7	260.0	1.32	41	185	1	0	0
WL		36	1	86	121	.138	.96	.41	109.0	526.7	1.44	45	218	1	0	0

Stand Table Summary															
TC TSTNDSUM				Project ANDPOINT AREA 1											
Anderson point				T02N R09W S02 T0120											
T02N R09W S02 T0120				T02N R09W S02 T0120											
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page:	2						
02N	09W	02	1000	0120	1.00	29	195	Date:	4/28/200:						
								Time:	7:09:12AM						
S Spc	T	Sample DBH	FF Trees	Av Ht 16' Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Cu.Ft.	Net Cu.Ft.	Bd.Ft. Acre	Totals		
								Net Cu.Ft.	Bd.Ft.				Tons	Cunits	MBF
WL	Totals	6	88	110	1.773	5.75	4.56	52.2	221.5	7.62	238	1,010	8	2	1
SS	11	1	68	57	1.351	.96	1.35	15.9	30.0	.56	21	41	1	0	0
SS	13	2	72	52	2.178	1.92	2.18	18.8	35.1	1.07	41	76	1	0	0
SS	17	1	63	36	.637	.96	.64	28.0	30.0	.47	18	19	0	0	0
SS	18	1	79	60	.519	.96	.52	46.4	90.0	.63	24	47	1	0	0
SS	Totals	5	70	52	4.686	4.79	4.69	22.3	39.0	2.72	104	183	3	1	0
BM	20	1	68	38	.457	.96	.46	37.2	50.0	.45	17	23	0	0	0
BM	Totals	1	68	38	.457	.96	.46	37.2	50.0	0.45	17	23	0	0	0
Totals		195	88	69	170.645	186.80	221.11	22.8	88.7	141.88	5038	19,607	142	50	20

TC TSTNDSUM

Stand Table Summary

Anderson point

Project **ANDPOINT**

AREA 2

T02N R09W S02 T0220

DF & WH = TAKE TREES

T02N R09W S02 T0220

Twp Rge Sec Tract
02N 09W 02 1000

Type Acres Plots Sample Trees
0220 1.00 20 139

Page: 1
Date: 4/28/2001
Time: 7:09:12AM

S Spc	T	DBH	Sample Trees	FF 16'	Av Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals		
									Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF
DF		8	3	84	41	11.963	4.17	11.96	4.5	20.0	1.53	54	239	2	1	0
DF		9	1	85	41	3.215	1.39	3.22	5.8	30.0	.53	19	96	1	0	0
DF		11	4	86	74	8.351	5.56	10.49	12.0	47.7	3.58	125	500	4	1	1
DF		12	6	82	69	10.838	8.33	16.06	12.1	41.0	5.55	195	658	6	2	1
DF		13	4	86	79	6.158	5.56	9.20	16.2	54.8	4.24	149	505	4	1	1
DF		14	9	86	78	11.538	12.50	19.27	17.7	62.4	9.72	341	1,202	10	3	1
DF		15	2	87	86	2.358	2.78	4.72	17.3	69.7	2.33	82	329	2	1	0
DF		16	3	88	96	2.997	4.17	5.99	23.3	91.7	4.00	140	549	4	1	1
DF		17	3	88	93	2.648	4.17	5.30	25.7	95.0	3.88	136	503	4	1	1
DF		18	1	80	93	.832	1.39	1.66	28.4	90.0	1.35	47	150	1	0	0
DF		19	1	88	83	.721	1.39	1.44	29.6	105.0	1.22	43	151	1	0	0
DF		20	6	86	90	3.854	8.33	7.08	37.8	124.4	7.62	267	881	8	3	1
DF		21	2	87	112	1.161	2.78	2.91	38.4	157.7	3.19	112	459	3	1	0
DF		22	2	85	102	1.082	2.78	2.16	46.1	142.5	2.85	100	308	3	1	0
DF		23	3	87	103	1.428	4.17	2.86	50.0	191.1	4.07	143	546	4	1	1
DF		24	3	89	116	1.338	4.17	4.01	43.8	194.6	5.01	176	781	5	2	1
DF		31	1	89	136	.262	1.39	.78	85.2	413.3	1.91	67	324	2	1	0
DF	Totals		54	85	73	70.742	75.01	109.12	20.1	75.0	62.55	2,194	8,182	63	22	8
RA		10	3	89	48	7.850	4.17	7.85	8.6	36.5	1.86	68	286	2	1	0
RA		11	5	91	59	10.045	6.95	10.04	13.8	56.0	3.81	138	562	4	1	1
RA		12	11	91	62	19.679	15.28	21.51	15.7	64.2	9.29	338	1,381	9	3	1
RA		13	3	88	71	4.593	4.17	4.66	18.5	76.7	2.37	86	358	2	1	0
RA		14	2	54	46	2.526	2.78	2.53	14.4	45.6	1.00	36	115	1	0	0
RA		15	1	89	42	1.211	1.39	1.21	19.9	50.0	.66	24	61	1	0	0
RA		16	4	87	49	3.955	5.56	4.91	19.9	75.8	2.69	98	373	3	1	0
RA		17	6	71	56	5.289	8.33	7.08	21.9	77.8	4.26	155	551	4	2	1
RA		18	3	89	62	2.333	4.17	2.33	42.2	178.7	2.71	98	417	3	1	0
RA		19	2	87	69	1.427	2.78	1.43	48.4	151.0	1.90	69	215	2	1	0
RA		20	1	91	70	.612	1.39	.61	58.0	300.0	.98	35	184	1	0	0
RA		21	1	91	36	.572	1.39	.57	37.2	150.0	.59	21	86	1	0	0
RA		22	1	91	50	.536	1.39	.54	55.1	90.0	.81	30	48	1	0	0
RA	Totals		43	87	58	60.628	59.73	65.28	18.3	71.0	32.92	1,197	4,636	33	12	5
WH		10	2	84	44	5.250	2.78	5.25	7.3	30.0	1.24	38	158	1	0	0
WH		11	1	88	39	1.994	1.39	1.99	11.5	30.0	.74	23	60	1	0	0
WH		12	1	90	87	1.893	1.39	3.79	11.3	45.0	1.34	43	170	1	0	0
WH		14	1	91	57	1.337	1.39	1.34	17.5	40.0	.75	23	53	1	0	0
WH		15	4	90	83	4.459	5.56	7.82	21.4	81.2	5.36	167	634	5	2	1
WH		16	2	88	76	2.067	2.78	3.13	25.6	90.0	2.57	80	281	3	1	0
WH		17	4	89	89	3.549	5.56	7.10	27.4	105.8	6.22	194	751	6	2	1
WH		19	1	85	82	.736	1.39	1.47	29.9	95.0	1.40	44	140	1	0	0
WH		21	2	91	85	1.212	2.78	2.42	38.5	150.0	2.99	93	364	3	1	0
WH	Totals		18	88	69	22.498	25.00	34.30	20.6	76.1	22.60	706	2,611	23	7	3
DL		25	1	87	104	.401	1.39	.80	62.8	245.0	1.39	50	197	1	1	0
DL		27	2	88	112	.694	2.78	1.38	72.4	343.2	2.75	100	474	3	1	0
DL		28	2	89	102	.652	2.78	1.30	81.5	327.4	2.93	106	427	3	1	0
DL		32	1	89	123	.253	1.39	.76	80.7	386.7	1.69	61	294	2	1	0
DL		34	1	86	104	.220	1.39	.44	114.9	455.0	1.39	51	200	1	1	0
DL		35	1	86	134	.213	1.39	.64	102.4	483.3	1.80	65	308	2	1	0
DL	Totals		8	88	110	2.433	11.11	5.33	81.5	356.8	11.94	434	1,901	12	4	2

Stand Table Summary																
TC TSTNDSUM				Anderson point												
T02N R09W S02 T0220				T02N R09W S02 T0220												
Twp Rge Sec Tract				Type			Acres		Plots		Sample Trees		Page: 2			
02N 09W 02 1000				0220			1.00		20		139		Date: 4/28/2007			
													Time: 7:09:12AM			
S Spc	T	Sample DBH	FF Trees	Av Ht 16' Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals			
								Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF	
WL		22	1	93	94	.526	1.39	1.05	50.0	200.0	1.68	53	210	2	1	0
WL		23	3	89	100	1.461	4.17	2.92	52.4	201.7	4.90	153	589	5	2	1
WL		27	1	86	101	.357	1.39	.71	77.1	295.0	1.76	55	211	2	1	0
WL		28	1	87	112	.325	1.39	.65	85.6	345.0	1.78	56	224	2	1	0
WL		Totals	6	89	100	2.669	8.33	5.34	59.3	231.3	10.13	317	1,235	10	3	1
SS		13	1	74	65	1.462	1.39	1.46	25.3	60.0	.96	37	88	1	0	0
SS		14	1	77	44	1.263	1.39	1.26	19.9	40.0	.65	25	51	1	0	0
SS		17	1	84	58	.871	1.39	.87	34.3	40.0	.78	30	35	1	0	0
SS		18	2	82	69	1.521	2.78	2.27	33.9	100.0	2.00	77	227	2	1	0
SS		19	2	83	68	1.411	2.78	1.41	50.5	119.6	1.86	71	169	2	1	0
SS		23	1	85	35	.477	1.39	.48	46.0	80.0	.57	22	38	1	0	0
SS		26	1	86	91	.371	1.39	.74	71.8	250.0	1.39	53	185	1	1	0
SS		30	1	87	76	.289	1.39	.29	133.5	530.0	1.00	39	153	1	0	0
SS		Totals	10	81	62	7.665	13.89	8.79	40.3	107.6	9.22	354	946	9	4	1
Totals			139	86	67	166.635	193.07	228.16	22.8	85.5	149.36	5202	19,511	149	52	20

Stand Table Summary																
TC TSTNDSUM Anderson point				Project ANDPOINT <i>RIGHT-OF-WAY</i>												
T02N R09W S02 T0R0W										T02N R09W S02 T0R0						
Twp Rge Sec Tract				Type		Acres		Plots		Sample Trees		Page: 1				
02N 09W 02 1000				ORO		1.00		10		41		Date: 4/28/2001				
Time: 7:09:12AM																
S Spc	T	DBH	Sample Trees	FF 16'	Av Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals			
									Net Cu.Ft.	Net Bd.Ft.			Tons	Cunits	MBF	
DF		11	2	74	46	10.000	6.13	10.00	9.9	25.0	2.83	99	250	3	1	0
DF		12	4	76	53	20.000	15.65	20.00	14.6	40.0	8.33	291	800	8	3	1
DF		13	1	79	41	5.000	4.54	5.00	13.8	30.0	1.97	69	150	2	1	0
DF		14	1	81	77	5.000	5.58	10.00	14.8	40.0	4.21	148	400	4	1	0
DF		17	1	83	96	5.000	7.51	10.00	25.0	85.0	7.09	250	850	7	2	1
DF		18	2	84	99	10.000	16.80	20.00	29.7	107.5	16.89	594	2,150	17	6	2
DF		19	3	84	95	15.000	29.76	30.00	33.7	113.3	28.82	1,010	3,400	29	10	3
DF		22	1	86	105	5.000	13.08	10.00	48.1	180.0	13.71	481	1,800	14	5	2
DF	Totals		15	80	74	75.000	99.04	115.00	25.6	85.2	83.84	2,942	9,800	84	29	10
RA		11	2	56	46	10.000	6.36									
RA		12	8	62	58	40.000	30.39	35.00	8.6	35.7	8.30	302	1,250	8	3	1
RA		13	5	75	65	25.000	22.83	25.00	19.3	58.0	13.26	482	1,450	13	5	1
RA		14	2	87	87	10.000	10.84	20.00	15.7	67.5	8.63	314	1,350	9	3	1
RA		17	1	78	50	5.000	8.07	5.00	34.9	70.0	4.80	175	350	5	2	0
RA		18	1	89	73	5.000	8.64	10.00	24.0	95.0	6.60	240	950	7	2	1
RA		19	1	87	62	5.000	9.95	10.00	25.4	80.0	7.00	254	800	7	3	1
RA	Totals		20	71	62	100.000	97.09	105.00	16.8	58.6	48.58	1,767	6,150	49	18	6
WH		11	1	72	136	5.000	3.36	10.00	13.5	50.0	4.33	135	500	4	1	1
WH		13	1	79	62	5.000	4.75	5.00	21.8	60.0	3.49	109	300	3	1	0
WH		15	1	77	41	5.000	6.14	5.00	21.4	40.0	3.42	107	200	3	1	0
WH		16	1	84	81	5.000	7.25	10.00	22.8	85.0	7.28	228	850	7	2	1
WH		18	1	85	100	5.000	8.64	10.00	27.0	110.0	8.64	270	1,100	9	3	1
WH	Totals		5	79	84	25.000	30.13	40.00	21.2	73.8	27.15	849	2,950	27	8	3
SS		18	1	84	68	5.000	9.03	5.00	46.3	150.0	6.01	231	750	6	2	1
SS	Totals		1	84	68	5.000	9.03	5.00	46.3	150.0	6.01	231	750	6	2	1
Totals			41	75	69	205.000	235.30	265.00	21.8	74.2	165.59	5788	19,650	166	58	20



"STEWARDSHIP IN FORESTRY"

Anderson Point

Volume Summary

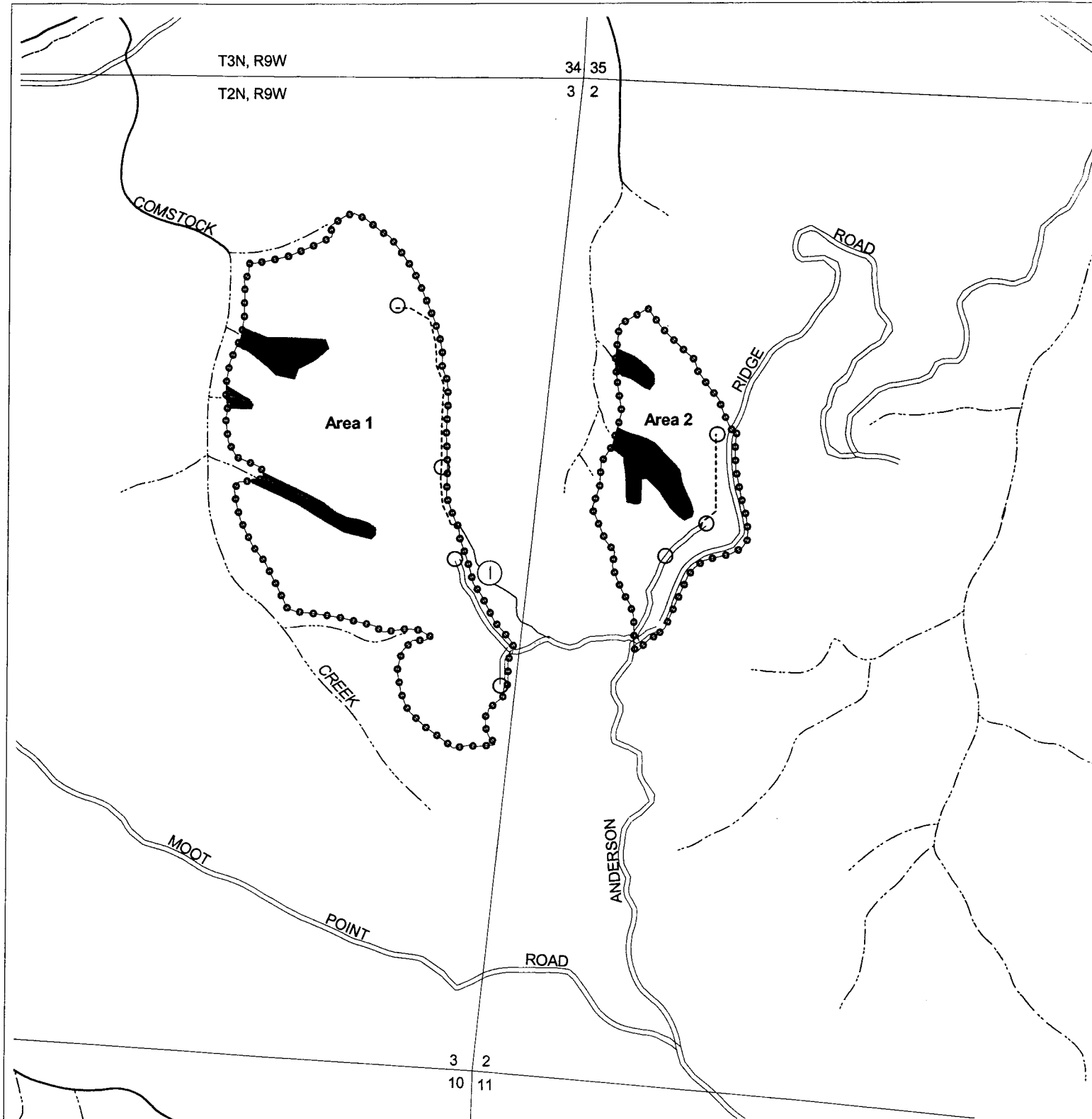
Area 1					
102 acres					
SPECIES	Gross MBF/Acre	Net MBF/Acre	Net MBF	Hidden D&B	Adj Net Vol MBF
Douglas-fir	4.0	4.0	408	5%	388
Hemlock	1.1	1.1	112	5%	106
Alder	11.3	11.4	1153	5%	1095
TOTAL	16.4	16.5	1673		1589

Area 2					
31 acres					
SPECIES	Gross MBF/Acre	Net MBF/Acre	Net MBF	Hidden D&B	Adj Net Vol MBF
Douglas-fir	8.3	8.2	254	5%	241
Hemlock	2.6	2.6	81	5%	77
Alder	4.6	4.6	143	5%	136
TOTAL	15.5	15.4	478		454

Area Right-of-Way					
SPECIES	Gross MBF	Net MBF	Hidden D&B	Adj Net Vol MBF	
Douglas-fir	10	10	5%	10	
Hemlock	3	3	5%	3	
Alder	6	6	5%	6	
TOTAL	19	19		19	

TOTAL SALE VOLUME			
SPECIES	MBF	% D&B	Net Vol (MBF)
Douglas-fir	672	5%	639
Hemlock	196	5%	186
Alder	1302	5%	1237
TOTAL	2170		2062

4/25/05



- Landing
- ▲ Domestic water supply
- ⊗ Blocked
- ▭ Cable yarding
- ▨ Ground yarding
- ▩ Helicopter yarding
- ▧ Downhill yarding
- Buffer
- Non-required thinning
- Area boundary
- Sale boundary
- Ownership boundary
- Perennial Type-F stream
- Perennial Type-N stream
- Surfaced road
- Unsurfaced road
- State highway
- County road
- ② Non-project road
- Swing road
- Abandoned road
- OHV trail
- Non-motorized trail
- T T Transmission line

LOGGING PLAN
 Timber Sale Contract No. 341-06-12
 Anderson Point
 Portions of Sections 2 and 3
 T2N, R9W, W. M.
 Tillamook County, Oregon



Area	Type of Operation	Acres	
		Sale	Net
1	Modified Clearcut	108	102
2	Modified Clearcut	38	31
Total		146	133

Tillamook District GIS
 2-28-05
 This product is for informational use and may not have been prepared for, or suitable for legal, engineering, or surveying purposes.

