



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Cost Summary Post Canyon Sale 341-04-64

District: Tillamook

Date: 11/17/03

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$177,862.72	\$45,633.60	\$223,496.32
		Project Work	(\$92,710.71)
		Advertised Value	\$130,785.61



Timber Sale Appraisal Timber Description Post Canyon Sale 341-04-64

"STEWARDSHIP IN FORESTRY"

District: Tillamook

Location: Sections 7, 8, 17, & 18, T2N, R8W, W.M., Tillamook County

Date: 11/17/03

Stand Stocking: 20%

Species	Avg. DBH	Amortized%	Recovery%
Douglas - Fir	13	0	100
Western Hemlock / Fir	14	0	100
Alder (Red)	12	0	100

Volume by Grade	Douglas - Fir	Western Hemlock / Fir	Alder (Red)	Total
3S	851	253	0	1,104
4S	219	88	0	307
Camprun	0	0	180	180
Total	1,070	341	180	1,591

Comments: Pond Values Used: 3rd Quarter 2003

Additional Costs (Profit and Risk to be added)

Brand and Paint - $\$2/\text{MBF} \times 1591 \text{ MBF} = \3182

Total Other Costs + (P/R) = \$3182

Additional Costs (Profit and Risk Included)

Non-Project Roads - (Seeding included)

Road 1 - 4 Stations x \$120 = \$ 480

Approach Rock - (first station of each road, pit-run, 9" minimum depth)

1 Station x 50 cu. yds. x \$5.50/yd = \$ 275

Total Other Costs = \$755

Road Maintenance

Grading - once per 2 MMBF

$\$500/\text{Mile} \times 1 \text{ Grading} \times 9 \text{ miles} / 1591 = \2.83

Maintenance Rock - approximately 25 cu. yds./MMBF/Mile

$40 \text{ cu. yds.} \times 9 \text{ miles} \times \$3.85/\text{yard} / 1591 = \0.87

Total Maintenance Cost = \$3.70



Timber Sale Appraisal

Logging Conditions

Post Canyon

Sale 341-04-64

"STEWARDSHIP IN FORESTRY"

Combination#: 1	Douglas - Fir	17.79%	
	Western Hemlock / Fir	26.13%	
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:	5		Bd. Ft./Load: 3,500
Cost/MBF:	\$208.42		
Machines:	Log Loader (A)		
	Stroke Delimber (A)		
	Tower Yarder (Medium)		
Combination#: 2	Douglas - Fir	14.55%	
	Western Hemlock / Fir	21.38%	
Yarding Distance:	Short (400 ft)		Downhill Yarding: Yes
Logging System:	Wheel Skidder		Process: Feller Buncher
Tree Size:	Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF		
Loads/Day:	6		Bd. Ft./Load: 3,500
Cost/MBF:	\$159.72		
Machines:	Feller Buncher w/ Delimber		
	Log Loader (B)		
	Stroke Delimber (B)		
	Tire Skidder		
Combination#: 3	Douglas - Fir	54.13%	
	Western Hemlock / Fir	41.99%	
	Alder (Red)	80.00%	
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:	6		Bd. Ft./Load: 3,000
Cost/MBF:	\$182.37		
Machines:	Log Loader (A)		
	Stroke Delimber (A)		
	Tower Yarder (Medium)		
Combination#: 4	Douglas - Fir	13.53%	
	Western Hemlock / Fir	10.50%	
	Alder (Red)	20.00%	

Yarding Distance: Medium (800 ft)

Downhill Yarding: Yes

Logging System: Track Skidder

Process: Feller Buncher

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

Loads/Day: 10

Bd. Ft./Load: 3,000

Cost/MBF: \$117.30

Machines:

Feller Buncher w/ Delimber

Log Loader (B)

Stroke Delimber (B)

Track Skidder



Timber Sale Appraisal

Logging Costs

Post Canyon

Sale 341-04-64

"STEWARDSHIP IN FORESTRY"

Date: 11/17/03

Operating Seasons: 2.0

Profit & Risk: 15%

Project Costs: \$92,711

Other Costs (P/R): \$3,182

Slash Disposal: \$0

Other Costs: \$755

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

Road Maintenance: \$3.70

Hauling Costs

Species	\$/MBF	Trips/Day	MBF/Load
Douglas - Fir	\$0.00	2.0	3.2
Western Hemlock / Fir	\$0.00	3.0	3.4
Alder (Red)	\$0.00	3.0	2.8



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Logging Costs Breakdown Post Canyon Sale 341-04-64

Costs	Douglas - Fir	Western Hemlock / Fir	Alder (Red)
Logging	174.90	177.50	169.36
Road Maintenance	3.70	3.70	3.70
Fire Protection	3.41	3.41	3.41
Hauling	65.70	43.80	51.10
Other (P/R appl.)	2.00	2.00	2.00
Profit & Risk	37.46	34.56	34.44
Slash Disposal	0.00	0.00	0.00
Scaling	2.00	2.00	2.00
Other	0.47	0.47	0.47
Total	289.64	267.44	266.48

Amortization	0.00	0.00	0.00
Pond Value	444.77	302.26	520.00
Stumpage	155.13	34.82	253.52
Amortized	0.00	0.00	0.00



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Summary Post Canyon Sale 341-04-64

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	1,070.00	341.00	180.00
Value	155.13	34.82	253.52
Total	165,989.10	11,873.62	45,633.60

Gross Timber Sale Value

Recovery \$223,496.32

Prepared by: Tim Lieske

Date: 11/17/03

District: Tillamook

Phone: (503) 842-2545



"STEWARDSHIP IN FORESTRY"

PROJECT SUMMARY SHEET

Sale: Post Canyon

CONSTRUCTION

Point	A to B	69+90	stations =	\$62,102.56
Point	C to D	9+90	stations =	\$6,492.63
SUBTOTAL CONSTRUCTION				\$68,595.19

IMPROVEMENT

Point	A to B	26+25	stations =	\$23,321.78
SUBTOTAL IMPROVEMENT				\$23,321.78

SPECIAL PROJECTS

				\$0.00
SUBTOTAL SPECIAL PROJECTS				\$0.00

MOVE IN

\$793.75

GRAND TOTAL

\$92,710.71

SUMMARY OF CONSTRUCTION COST

Sale:	<u>Post Canyon</u>		Road: <u>A to B</u>								
Construction -	<table border="0" style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: right;">69+90</td> <td style="text-align: left;">stations</td> </tr> <tr> <td style="text-align: right; border-top: 1px solid black;">1.32</td> <td style="text-align: left; border-top: 1px solid black;">miles</td> </tr> </table>	69+90	stations	1.32	miles		<table border="0" style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: right;">26+25</td> <td style="text-align: left;">stations</td> </tr> <tr> <td style="text-align: right; border-top: 1px solid black;">0.50</td> <td style="text-align: left; border-top: 1px solid black;">miles</td> </tr> </table>	26+25	stations	0.50	miles
69+90	stations										
1.32	miles										
26+25	stations										
0.50	miles										
CLEARING AND GRUBBING -											
Scattering	5.000 acres @	\$815.00 per acre =	\$4,075.00								
		TOTAL CLEARING AND GRUBBING									
			\$4,075.00								
EXCAVATION -											
Road Earthwork - 0+00 to 18+30	18.30 sta. @	\$30.00 per sta. =	\$549.00								
Road Earthwork - 18+30 to 45+50	27.20 sta. @	\$150.00 per sta. =	\$4,080.00								
Road Earthwork - 45+50 to 48+60	3.10 sta. @	\$656.00 per sta. =	\$2,033.60								
Road Earthwork - 48+60 to 49+60	1.00 sta. @	\$204.00 per sta. =	\$204.00								
Road Earthwork - 49+60 to 58+80	9.20 sta. @	\$656.00 per sta. =	\$6,035.20								
Road Earthwork - 58+80 to 62+85	4.05 sta. @	\$293.00 per sta. =	\$1,186.65								
Road Earthwork - 62+85 to 70+80	7.95 sta. @	\$65.00 per sta. =	\$516.75								
Road Earthwork - 70+80 to 96+15	25.35 sta. @	\$100.00 per sta. =	\$2,535.00								
		TOTAL EXCAVATION									
			\$17,140.20								
CULVERTS - MATERIALS & INSTALLATION											
	<u>Culverts</u>										
	244 LF of 18"	\$3,599.00									
	0 LF of 30"	\$0.00									
	0 LF of 42"	\$0.00									
	0 LF of 54"	\$0.00									
	0 LF of 66"	\$0.00									
		\$3,599.00									
	<u>Half Rounds</u>										
	80 LF of 21"	\$912.00									
	0 LF of 36"	\$0.00									
		\$912.00									
	<u>Culvert Stakes & Markers</u>										
	16 stakes	\$128.00									
	9 markers	\$54.00									
		\$182.00									
			TOTAL CULVERTS								
			\$5,474.00								
SURFACING-											
0+00 to 17+00	865 cy. of	Crushed	@								
17+00 to 64+00	2,954 cy. of	Crushed	@								
64+00 to 70+80	344 cy. of	Crushed	@								
70+80 to 96+15	934 cy. of	Crushed	@								
			\$10.29 per c.y.=								
			\$8,898.43								
			\$10.29 per c.y.=								
			\$30,388.40								
			\$10.29 per c.y.=								
			\$3,538.80								
			\$10.29 per c.y.=								
			\$9,608.25								
			TOTAL SURFACING								
			\$52,433.89								
SPECIAL PROJECTS											
Construct turnouts and turnarounds -	4.00 hours @	\$140.00 per hour	\$560.00								
Construct ditchouts -	1.20 hours @	\$140.00 per hour	\$168.00								
Construct a 10' wide x 10' long x 4' deep culvert catch basin at Sta. 74+25	0.75 hours @	\$130.00 per hour	\$97.50								
Grade and shape road - Ditch	77.85 stations @	\$14.20 per station	\$1,105.47								
Grade and shape road - Outslope	18.30 stations @	\$9.75 per station	\$178.43								
Roll subgrade w/ vibratory roller prior to rocking -	96.15 stations @	\$11.00 per station	\$1,057.65								
Remove large stumps -	3.00 hours @	\$140.00 per hour	\$420.00								
Grass seed and fertilize -	3.31 acres @	\$220.00 per acre	\$728.20								
Mulching -	3.31 acres @	\$600.00 per acre	\$1,986.00								
		TOTAL SPECIAL PROJECTS									
			\$6,301.25								
		GRAND TOTAL	\$85,424.33								

SUMMARY OF CONSTRUCTION COST

Sale:	<u>Post Canyon</u>		Road: <u>C to D</u>	
Construction -	<u>9+90</u> stations <u>0.19</u> miles		Improvement -	<u>+00</u> stations <u>0.00</u> miles
CLEARING AND GRUBBING -				
Scattering		0.950 acres @	\$815.00 per acre =	<u>\$774.25</u>
			TOTAL CLEARING AND GRUBBING	\$774.25
EXCAVATION -				
Road Earthwork		5.00 sta. @	\$65.00 per sta. =	\$325.00
Road Earthwork		4.90 sta. @	\$150.00 per sta. =	<u>\$735.00</u>
			TOTAL EXCAVATION	\$1,060.00
SURFACING-				
0+00 to 9+90	603 cy. of Pit-Run	@	\$6.31 per c.y.=	<u>\$3,804.16</u>
			TOTAL SURFACING	\$3,804.16
SPECIAL PROJECTS				
Construct turnouts and turnaround -		0.75 hours @	\$140.00 per hour	\$105.00
Grade and shape road -		9.90 stations @	\$9.75 per station	\$96.53
Roll subgrade w/ vibratory roller prior to rocking -		9.90 stations @	\$11.00 per station	\$108.90
Install waterbars		5 @	\$25.00 per waterbar	\$125.00
Remove large stumps -		1.00 hours @	\$140.00 per hour	\$140.00
Grass seed and fertilize -		0.34 acres @	\$220.00 per acre	\$74.80
Mulching -		0.34 acres @	\$600.00 per acre	<u>\$204.00</u>
			TOTAL SPECIAL PROJECTS	\$854.23
GRAND TOTAL				\$6,492.63

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Sale:	Post Canyon		
Pit:	Post Ridge FB#3	Location:	SW1/4 Sec. 17, T2N, R8W, W.M.
Rock:	2"-0"	Road:	5097 c.y.
Swell:	1.40	Stockpile:	c.y.
Shrinkage:	1.16	Total Truck Loads:	5097 c.y.
Drill Pct.:	100%	In Place Total:	3641 c.y.

Pit Development, Access Road and Cleanup including Clearing and grubbing of Waste Area near pit, drifting, placing and compacting overburden in Waste Area.	\$2,385.37
Grass Seed , fertilize and mulch waste area and pit access road.	\$82.00
Drill & Shoot:	\$2.10 /cu.yd. x 3641 cu.yds. = \$7,645.50
Push Rock:	\$0.60 /cu.yd. x 5,097 cu.yds. = \$3,058.20
Load Crusher:	\$0.60 /cu.yd. x 5,097 cu.yds. = \$3,058.20
Crushing: 2"-0"	\$2.30 /cu.yd. x 5,097 cu.yds. = \$11,723.10
Load Dump Truck:	\$0.60 /cu.yd. x 5,097 cu.yds. = \$3,058.20
Oversize Reduction:	\$4.00 /cu.yd. x 255 cu.yds. = \$1,019.40
Subtotal	\$32,029.97

Move in and set up Crusher	1	@	\$2,779.78	=	\$2,779.78
Move in and set up Drill and Compressor	1	@	\$229.23	=	\$229.23
Move in Roller and Compactor	1	@	\$229.23	=	\$229.23
Move in Grader	1	@	\$106.22	=	\$106.22
Move in Excavator from Point B	1	@	\$88.70	=	\$88.70
Move in D-8 from Point D	1	@	\$29.90	=	\$29.90
Move in Loader	1	@	\$229.69	=	\$229.69
Move in Trucks	5	@	\$73.15	=	\$365.75
Move in Water Truck	1	@	\$85.98	=	\$85.98
Subtotal					\$4,144.49

TOTAL PRODUCTION COSTS \$36,174.46

Base Cost= \$7.10 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	1.89	1.30	7.10	10.29	865	8,898.43
A to B	1.89	1.30	7.10	10.29	2954	30,388.40
A to B	1.89	1.30	7.10	10.29	344	3,538.80
A to B	1.89	1.30	7.10	10.29	934	9,608.25
					Total C.Y.	5097
					Sub Total	52,433.89

TOTAL ROCKING COSTS 52,433.89

ROCK DEVELOPMENT COST SUMMARY

Rock:	Pit-Run		
Pit:	Post Ridge - FB#3	Location:	SW1/4 Sec. 17, T2N, R8W, W.M.
Sale:	Post Canyon	Road:	603 c.y.
Swell:	1.40	Stockpile:	c.y.
Shrinkage:	1.16	Total Truck Loads:	603 c.y.
Drill Pct.:	60%	In Place Total:	431 c.y.

Pit Development, Access Road and Cleanup including Clearing and grubbing of Waste Area near pit, drifting, placing and compacting overburden in Waste Area.	\$782.65
Grass Seed , fertilize and mulch waste area and pit access road.	\$24.60
Drill & Shoot:	\$2.10 /cu.yd. x 258 cu.yds. = \$542.70
Rip Rock	\$1.75 /cu.yd. x 172 cu.yds. = \$301.50
Push Rock	\$0.60 /cu.yd. x 603 cu.yds. = \$361.80
Load Dump Truck:	\$0.60 /cu.yd. x 603 cu.yds. = \$361.80
Subtotal	\$2,375.05

Move In and set up Drill and Comp. - already @ Pit	\$0.00
Move in Roller - already @ Pit	\$0.00
Move in Grader - already @ Pit	\$0.00
Move in D-8 - already @ Pit	\$0.00
Move in Loader - already @ Pit	\$0.00
Move in Excavator - already @ Pit	\$0.00
Move in Trucks- already @ Pit	\$0.00
Subtotal	\$0.00

Base Cost=	\$3.94	Per Cu.Yd.		TOTAL PRODUCTION COSTS	\$2,375.05
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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	\$1.47	\$0.90	\$3.94	\$6.31	603	\$3,804.16
				Total C.Y.	603	Sub Total
						\$3,804.16

TOTAL ROCKING COSTS	\$3,804.16
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MOVE-IN CALCULATIONS

Sale: Post Canyon

LOWBOY HAUL (Round Trip)		
DISTANCE	ROADWAY	AVE SPEED (MPH)
21.0	Highway	40
7.1	Main Lines (Off Road)	12
2.0	Pulling 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
0	Drill & Compressor	\$0.00		\$46.00	0.00	0.00	0	\$0.00	\$0.00
0	Brush Cutter	\$0.00		\$4.00	0.00	0.00	0	\$0.00	\$0.00
0	Graders	\$0.00		\$3.65	0.00	0.00	0	\$0.00	\$0.00
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
0	Rollers & Compactors	\$0.00		\$5.00	0.00	0.00	0	\$0.00	\$0.00
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)	\$361.22	1	\$44.80	0.00	2.10	2.1	\$94.08	\$455.30
0	Rubber 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)	\$306.74	2	\$15.10	0.00	2.10	2.1	\$31.71	\$338.45
0	Dump Truck (10 cy +)	\$0.00		\$2.85	0.00	0.00	0	\$0.00	\$0.00
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
0	Water Truck (2500 Gal)	\$0.00		\$2.85	0.00	0.00	0	\$0.00	\$0.00
0	Jaw	\$1,066.00							
0	2-Stage Crusher	\$1,597.00							
0	3-Stage Crusher	\$2,489.00							

TOTAL MOVE-IN COSTS: \$793.75



OREGON DEPARTMENT OF FORESTRY CRUISE REPORT

Post Canyon

1. Type of Sale

Partial cut and Clearcut -- Recovery

2. Legal Description

Portions of Sections 7, 8, 17, and 18, T2N, R8W, WM, Tillamook County, Oregon.

3. Sale Acreage

	ACRES		
	<u>Sale</u>	<u>Total</u>	<u>Net</u>
Area 1 (Partial Cut)	97	97	77
Area 2 (Clearcut)	81	90	81
Total	178	187	158

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

A total of 32 variable radius plots were taken across the sale area. Eighteen plots were used to evaluate Area 1 and 15 plots were used to evaluate Area 2, with one plot recorded in both. Diameters and species were recorded and all trees were graded and measured for merchantable height and form factor. Plots were spaced 390' apart on a grid pattern in Areas 1 and 2. All conifers 8 inches DBH and greater and all hardwoods 10 inches DBH and greater were recorded on all plots.

B. Plot size

A basal area factor of 33.61 was used in all areas. 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. Conifer trees were measured to a 6-inch top 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

Measured trees were used to develop a volume basal area ratio (V-BAR) for each species. V-Bar for take trees was computed using the Atterbury SuperA.C.E.98 program. Residual and surplus 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 1945 Wilson River. The timber on sale area is 40-45 years old. Area 1 is a mixed stand of seeded Douglas-fir and Douglas-fir and hemlock from natural regeneration. Area 2 is predominately seeded Douglas-fir with scattered other conifers. All areas have dense conifer on the upper slopes and scattered alder and conifer in the draws and flats. The current stand condition is closed-single canopy. Douglas-fir has moderate to severe symptoms of Swiss needle cast. In Area 1, Douglas-fir crown ratios are 40% or greater, mixed with hemlock and would benefit from thinning, while poor crown ratios in a dense stand of predominately Douglas-fir lead to the decision to clearcut Area 2.

8. Cruiser Names/Dates

Wells / Bond / Lieske, September 2003.

9. Revenue Distribution

FDF: 100%	Tax Code: 56 – 45% and 56-1 – 55%
Deed Numbers: 15	81% Rehabilitation Obligated

10. Attachments

Stand Tables
Volume Summary
Logging Plan

Stand Table Summary

Project POST CAN

T02N R08W S08 T0001

T02N R08W S08 T0001

Twp Rge Sec Tract
02N 08W 08 AREA 1

Type Acres Plots Sample Trees
0001 1.00 18 118

Page: 1
Date: 9/30/03
Time: 2:49:15PM

S Spc T	DBH	FF Trees	Av Ht		Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals		
			16'	Tot				Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF
WH	10	1	88	36	3.793	1.87	3.79	9.0	30.0	1.12	34	114	1	0	0
WH	11	2	87	75	5.834	3.73	5.83	17.9	60.0	3.35	105	350	3	1	0
WH	12	3	87	70	7.005	5.60	7.01	20.5	57.0	4.53	144	399	5	1	0
WH	13	1	77	74	2.191	1.87	2.19	24.0	50.0	1.65	53	110	2	1	0
WH	14	3	82	71	5.499	5.60	9.17	17.6	50.0	4.98	161	458	5	2	0
WH	15	4	81	74	6.236	7.47	10.89	21.8	65.9	7.25	237	718	7	2	1
WH	16	3	84	66	4.034	5.60	6.64	24.5	73.6	4.92	163	489	5	2	0
WH	17	3	73	78	3.545	5.60	5.83	30.9	67.8	5.41	180	396	5	2	0
WH	19	3	81	58	2.878	5.60	3.79	35.1	81.6	3.95	133	309	4	1	0
WH	21	3	69	76	2.331	5.60	4.66	41.6	85.9	5.69	194	400	6	2	0
WH	22	2	90	80	1.408	3.73	2.82	45.3	150.0	3.72	127	423	4	1	0
WH	23	3	83	83	1.931	5.60	3.90	49.0	168.7	5.56	191	657	6	2	1
WH	24	1	91	83	.620	1.87	.62	74.0	350.0	1.33	46	217	1	0	0
WH	25	1	91	86	.531	1.87	.53	85.0	410.0	1.30	45	218	1	0	0
WH	27	1	91	91	.466	1.87	.93	73.0	260.0	1.95	68	242	2	1	0
WH	Totals	34	83	70	48.304	63.49	68.61	27.4	80.2	56.72	1,881	5,499	57	19	5
DX	8	1	81	42	5.774	1.87	5.77	3.0	10.0	.59	17	58	1	0	0
DX	10	5	77	46	16.477	9.34	16.48	10.9	41.3	5.76	179	681	6	2	1
DX	11	5	81	58	13.603	9.34	13.60	14.5	50.0	6.27	197	680	6	2	1
DX	12	6	86	70	14.024	11.20	18.78	14.4	52.3	8.51	271	982	9	3	1
DX	13	6	78	66	11.635	11.20	13.41	18.8	52.0	7.83	252	697	8	3	1
DX	14	7	80	66	12.291	13.07	15.91	18.2	48.8	8.92	289	776	9	3	1
DX	15	2	83	90	3.128	3.73	6.26	18.7	67.8	3.57	117	424	4	1	0
DX	18	1	80	98	1.081	1.87	2.16	29.1	100.0	1.88	63	216	2	1	0
DX	25	1	73	119	.570	1.87	1.71	42.3	133.3	2.10	72	228	2	1	0
DX	Totals	34	80	61	78.583	63.49	94.08	15.5	50.4	45.43	1,458	4,742	45	15	5
DF	13	2	86	67	4.021	3.73	4.02	21.1	70.0	2.63	85	281	3	1	0
DF	15	4	79	76	6.071	7.47	12.00	16.9	52.6	6.18	203	631	6	2	1
DF	16	1	83	85	1.407	1.87	2.81	18.4	75.0	1.57	52	211	2	1	0
DF	17	5	83	87	5.973	9.34	11.95	23.4	76.8	8.40	280	918	8	3	1
DF	18	4	80	89	4.337	7.47	8.67	26.4	83.9	6.84	229	728	7	2	1
DF	19	2	79	84	1.927	3.73	3.85	29.1	92.5	3.33	112	356	3	1	0
DF	20	2	82	80	1.774	3.73	3.55	25.8	64.8	2.71	92	230	3	1	0
DF	21	1	80	99	.762	1.87	1.52	43.6	130.0	1.95	66	198	2	1	0
DF	22	1	78	108	.714	1.87	1.43	49.3	150.0	2.06	70	214	2	1	0
DF	24	1	81	104	.604	1.87	1.21	55.5	180.0	1.95	67	218	2	1	0
DF	Totals	23	81	83	27.588	42.95	51.01	24.6	78.1	37.61	1,255	3,985	38	13	4
HX	7	1	91	31	7.404	1.87	7.40								
HX	9	1	87	44	4.045	1.87	4.04	10.0	30.0	1.34	40	121	1	0	0
HX	10	2	87	51	6.270	3.73	6.27	13.5	45.0	2.72	85	282	3	1	0
HX	11	2	86	45	5.982	3.73	5.98	12.5	40.2	2.41	75	240	2	1	0
HX	13	2	90	59	4.022	3.73	4.02	20.0	75.1	2.50	80	302	2	1	0
HX	14	2	90	63	3.525	3.73	3.53	22.8	89.5	2.48	81	315	2	1	0
HX	16	3	87	80	3.884	5.60	7.77	21.8	73.2	5.12	170	569	5	2	1
HX	17	2	93	64	2.385	3.73	4.77	21.5	80.0	3.09	103	382	3	1	0
HX	Totals	15	89	51	37.517	28.01	43.79	14.5	50.5	19.66	633	2,211	20	6	2
RA	9	1	80	17	4.227	1.87									
RA	11	1	91	52	3.105	1.87	3.11	11.2	50.0		35	155		0	0
RA	12	3	80	50	7.310	5.60	4.72	14.3	45.2		67	213		1	0

Stand Table Summary

Project POST CAN

T02N R08W S08 T0001

T02N R08W S08 T0001

Twp Rge Sec Tract
02N 08W 08 AREA 1

Type Acres Plots Sample Trees
0001 1.00 18 118

Page: 2
Date: 9/30/03
Time: 2:49:15PM

S Spc T	Av				Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals		
	DBH	Trees	16'	Tot				Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF
RA	14	1	80	72	1.747	1.87	1.75	24.8	80.0	43	140		0	0	
RA	15	1	79	64	1.606	1.87	1.61	26.8	70.0	43	112		0	0	
RA	19	1	79	67	.948	1.87	.95	51.1	160.0	49	152		0	0	
RA	Totals	8	82	47	18.943	14.94	12.13	19.5	63.7	237	773		2	1	
SS	14	1	69	24	1.772	1.87	1.77	13.0	20.0	23	35		0	0	
SS	17	1	84	57	1.185	1.87	1.18	38.0	80.0	45	95		0	0	
SS	26	1	68	35	.506	1.87	.51	59.0	110.0	30	56		0	0	
SS	Totals	3	74	37	3.463	5.60	3.46	28.3	53.7	98	186		1	0	
RC	18	1	59	48	1.022	1.87	1.02	42.0	50.0	43	51		0	0	
RC	Totals	1	59	48	1.022	1.87	1.02	42.0	50.0	43	51		0	0	
Totals		118	82	62	215.420	220.33	274.10	20.4	63.7	159.42	5605	17,448	159	56	17

TC TSTNDSUM		Stand Table Summary														
Project POST CAN																
T02N R08W S08 T0002										T02N R08W S08 T0002						
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page: 1								
02N	08W	08	AREA 2	0002	1.00	15	85	Date: 9/30/03								
								Time: 2:38:25PM								
S Spc	T	Sample			Av Ht	Trees/ BA/ Logs			Average Log		Net Cu.Ft.	Net Bd.Ft.	Totals			
		DBH	Trees	16'		Tot	Trees/	BA/	Logs	Net			Net	Tons/	Cu.Ft.	Bd.Ft.
DF		8	3	83	68	19.257	6.72	19.26	4.8	20.0	3.14	92	385	3	1	0
DF		9	1	83	96	5.072	2.24	5.07	12.8	60.0	2.15	65	304	2	1	0
DF		10	2	81	98	8.300	4.48	12.41	11.0	46.6	4.43	136	578	4	1	1
DF		11	3	78	101	9.952	6.72	16.74	11.8	45.9	6.28	197	769	6	2	1
DF		12	5	82	60	14.304	11.20	11.25	17.1	54.4	6.03	192	612	6	2	1
DF		13	3	82	85	7.407	6.72	9.84	18.5	64.9	5.66	182	639	6	2	1
DF		14	11	83	87	23.435	24.65	36.01	19.5	68.1	21.69	704	2,454	22	7	2
DF		15	5	83	89	8.835	11.20	15.84	21.8	75.7	10.49	345	1,199	10	3	1
DF		16	6	83	89	9.629	13.44	19.26	22.1	75.0	12.88	426	1,444	13	4	1
DF		17	3	82	102	4.352	6.72	10.13	23.0	85.4	7.00	233	865	7	2	1
DF		19	1	83	91	1.138	2.24	2.28	32.3	95.0	2.18	73	216	2	1	0
DF		Totals	43	82	84	111.679	96.35	158.08	16.7	59.9	81.92	2,644	9,467	82	26	9
WH	RESERVE	21	1	73	82	.914	2.24	1.83	42.5	105.0	2.28	78	192	2	1	0
WH		26	1	86	139	.608	2.24	1.82	49.0	223.3	2.57	89	407	3	1	0
WH		27	1	86	128	.564	2.24	1.69	58.0	253.3	2.82	98	428	3	1	0
WH		29	1	86	129	.488	2.24	1.47	62.7	276.7	2.62	92	405	3	1	0
WH		30	2	87	122	.913	4.48	2.74	77.7	328.3	6.06	213	899	6	2	1
WH		39	1	86	127	.270	2.24	.81	99.3	450.0	2.26	80	365	2	1	0
WH		40	1	87	128	.257	2.24	.77	146.7	703.3	3.16	113	542	3	1	1
WH		Totals	8	83	118	4.014	17.93	11.13	68.6	291.1	21.77	763	3,238	22	8	3
RA		9	1	80	17	5.072	2.24	5.07	4.8	20.0		24	101		0	0
RA		10	3	83	26	12.577	6.72	12.58	6.2	23.4		78	294		1	0
RA		11	6	80	25	20.963	13.44	20.96	7.7	23.5		161	493		2	0
RA		12	3	79	31	8.559	6.72	8.56	11.9	36.7		102	314		1	0
RA		13	2	79	37	4.862	4.48	4.86	14.5	35.0		71	170		1	0
RA		14	3	80	60	6.201	6.72	6.20	23.3	79.3		145	492		1	0
RA		15	3	80	43	5.582	6.72	5.58	19.9	50.0		111	279		1	0
RA		16	1	80	70	1.625	2.24	1.63	35.8	120.0		58	195		1	0
RA		17	1	79	23	1.422	2.24	1.42								
RA		Totals	23	80	32	66.862	51.54	66.86	11.2	35.0		749	2,339		7	2
HX		10	1	74	17	4.552	2.24	4.55	6.0	20.0	.90	27	91	1	0	0
HX		11	2	82	45	6.863	4.48	6.86	13.2	39.1	2.90	91	268	3	1	0
HX		12	2	86	88	5.906	4.48	8.76	17.7	60.0	4.89	155	526	5	2	1
HX		14	1	90	87	1.981	2.24	3.96	21.5	75.0	2.61	85	297	3	1	0
HX		15	1	86	81	1.954	2.24	3.91	20.5	70.0	2.45	80	274	2	1	0
HX		16	1	68	74	1.527	2.24	1.53	35.0	70.0	1.61	53	107	2	1	0
HX		18	2	84	69	2.568	4.48	5.14	26.6	74.8	4.08	137	384	4	1	0
HX		19	1	86	112	1.138	2.24	2.28	44.5	150.0	3.00	101	341	3	1	0
HX		Totals	11	82	62	26.490	24.65	36.98	19.7	61.9	22.46	730	2,288	22	7	2
Totals			85	82	65	209.045	190.46	273.05	17.9	63.5	126.16	4887	17,332	126	49	17



Post Canyon

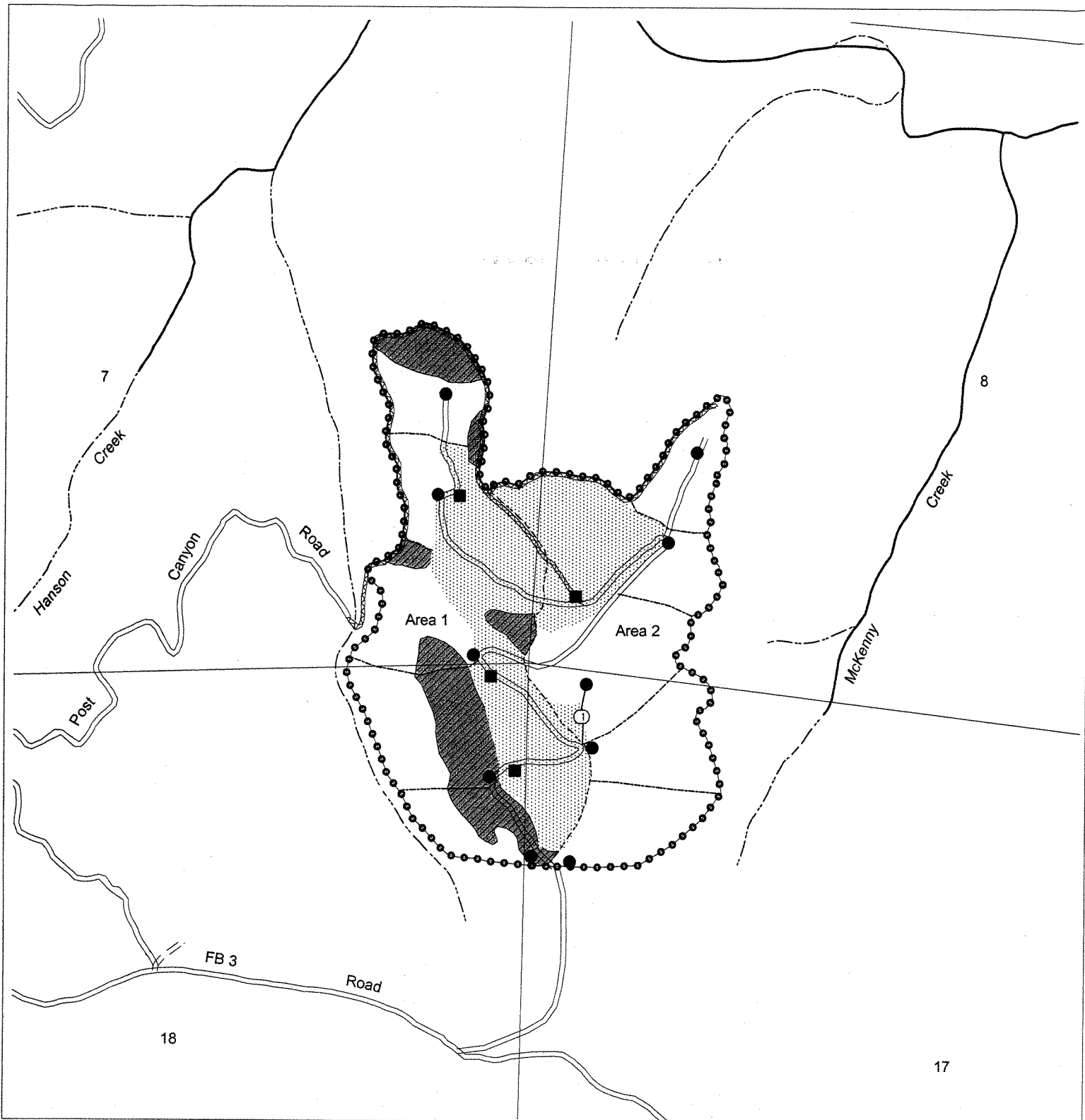
Volume Summary

"STEWARDSHIP IN FORESTRY"

Area 1						
						Acres: 77
Species	Basal Area Per Acre	VBAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	63	75	4.73	364.21	5%	346
W. Hemlock	28	79	2.21	170.17	5%	162
TOTAL				534.38		508

Area 2						
						Acres: 81
Species	Basal Area Per Acre	VBAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	96	98	9.41	762.21	5%	724
W. Hemlock	25	93	2.33	188.73	5%	179
Alder	52	45	2.34	189.54	5%	180
TOTAL				1140.48		1083

TOTAL SALE VOLUME			
			Total Acres: 158
SPECIES	MBF	NET VOL. (MBF)	NET MBF/ACRE
Douglas-fir	1126	1070	6.8
W. Hemlock	359	341	2.2
Alder	190	180	1.1
TOTAL	1675	1591	10.1



- Tractor landing
- Cable landing
- ▲ Domestic water supply
- ⊗ Block
- Cable yarding
- ▨ Ground yarding
- ▩ Helicopter yarding
- Buffer zone
- 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. 341-04-64
 Post Canyon
 Portions of sections 7, 8, 17, & 18,
 T2N, R8W, W. M.
 Tillamook County, Oregon

Area	Type of Operation	Acres	
		Gross	Net
1	Partial Cut	97	77
2	Clearcut	81	81
Total		178	158

