



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Electric Point
Sale 341-08-43

District: Tillamook

Date: June 29, 2007

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sales Value	\$390,651.89	\$35,887.04	\$426,538.93
		Project Work:	\$(49,290.00)
		Advertised Value:	\$377,248.93



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Timber Description

Location: Portions of Sections 23, 26, 27, and 34, T1N, R10W, W.M., Tillamook County, Oregon.

Stand Stocking: 80%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Western Hemlock / Fir	18	0	95
Sitka Spruce	21	0	95
Alder (Red)	13	0	75

Volume by Grade	2S	3S	3S 10" -	4S	4S 8" - 9'	Total
Western Hemlock / Fir	1,198	899	0	161	0	2,258
Sitka Spruce	170	227	0	42	0	439
Alder (Red)	0	0	24	0	50	74
Total	1,368	1,126	24	203	50	2,771



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Comments: Pond Values Used: 2nd Quarter Calendar Year 2007.

Western Red Cedar Stumpage Price = Pond Value minus Logging Cost
\$790/MBF = \$1,025/MBF - \$235/MBF

Douglas-fir Stumpage Price = Pond Value minus Logging Cost
\$285/MBF = \$520/MBF - \$235/MBF

HAULING

Hauling costs equivalent to \$700 daily truck cost.

Other Costs (Profit and Risk to be added):

Brand and Paint: \$2/MBF x 2,771 MBF = \$ 5,542

TOTAL Other Costs (Profit and Risk to be added) = \$5,542

OTHER COSTS (No Profit and Risk added):

Landing slash piling and sorting: (45 acres of cable harvest /
50acres/hour) x \$125/hr = \$113

Non-project Road #1 - 5 stations x \$165/station = \$825

Approach rock (pit run) ...2 stations x 50 yds³ x \$7.00 = \$700

Landing rock - 4 landings x 20yd³ /landings x \$7.00/ yd³ = \$560

Tank Trap installation - 7 traps x \$75/trap = \$ 525

Installed on all spurs, non-project roads, and as shown on Exhibit
A.

Water Bar installation - 10 water bars x \$25/bar = \$250

Move in for Tank Trap & Water Bar installation - \$200

Temporary Culvert removal (as shown on Exhibit A):

3 culverts x 1.5hrs x \$140/hr + \$60 (\$1 per foot) = \$720

TOTAL Other Costs (No Profit and Risk added) = \$3,893

ROAD MAINTENANCE:

Electric Creek Road:

Final Grading: \$500/mile x 1.9 miles / 2771 = \$.34/MBF

Compaction: ((100 stations x \$18/station)/2771MBF = \$.65/MBF

***Water is required for final surfacing and compaction.

Maintenance rock (\$15/cy x 3.2Miles x 20cy/MMBF/Mile x

2.8MMBF)/2771MBF = \$.97/MBF

Move in for Roller (\$200/2771) = \$.07

Move in for Grader (\$200/2771) = \$.07

Patterson Creek Road:

Spot rock only no grading or compaction for this road.

Larson Creek Road:

Final Grading: \$500/mile x .69 miles / 2771 MBF = \$.12/MBF

No surfacing or compaction for this road.

Total Road Maintenance = .34 + .65 + .97 + .07 + .07 + .12 =

\$2.22/MBF

TOTAL ROAD MAINTENANCE COST: \$ 2.22/MBF



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Logging Conditions

Combination#: 1 Western Hemlock / Fir 35.86%
 Sitka Spruce 46.57%
 Alder (Red) 76.76%

Yarding Distance: Medium (800 ft) **Downhill Yarding:** No
Logging System: Cable: Medium Tower >40 - <70 **Process:** Manual Delimiting
Tree Size: Mature / Partial Cut (900 Bft/tree), 3-5 logs/MBF
Loads / Day: 7.0 **Bd. Ft / Load:** 3,400
Cost / MBF: \$145.38

Machines: Log Loader (A)
 Tower Yarder (Medium)

Combination#: 2 Western Hemlock / Fir 58.45%
 Sitka Spruce 47.24%

Yarding Distance: Short (400 ft) **Downhill Yarding:** No
Logging System: Track Skidder **Process:** Manual Falling/Delimiting
Tree Size: Mature / Partial Cut (900 Bft/tree), 3-5 logs/MBF
Loads / Day: 9.0 **Bd. Ft / Load:** 3,400
Cost / MBF: \$112.43

Machines: Log Loader (B)
 Track Skidder

Combination#: 3 Western Hemlock / Fir 5.69%
 Sitka Spruce 6.18%
 Alder (Red) 23.24%

Yarding Distance: Medium (800 ft) **Downhill Yarding:** No
Logging System: Track Skidder **Process:** Manual Falling/Delimiting
Tree Size: Small / Thinning 9in (70 Bft/tree), 20+ logs/MBF
Loads / Day: 4.0 **Bd. Ft / Load:** 3,200
Cost / MBF: \$268.78

Machines: Log Loader (B)
 Track Skidder



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Logging Costs

Operating Seasons:	2.00	Profit Risk:	15.00%
Project Costs:	\$49,290.00	Other Costs (P/R):	\$5,542.00
Slash Disposal:	\$0.00	Other Costs:	\$3,893.00

Miles of Road

Road Maintenance: \$2.22

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

Hauling Costs

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



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Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Western Hemlock / Fir									
\$133.14	\$2.33	\$3.16	\$62.66	\$2.00	\$30.49	\$0.00	\$2.00	\$1.40	\$237.18
Sitka Spruce									
\$137.45	\$2.33	\$3.16	\$93.99	\$2.00	\$35.84	\$0.00	\$2.00	\$1.40	\$278.17
Alder (Red)									
\$174.06	\$2.78	\$3.16	\$135.88	\$2.00	\$47.68	\$0.00	\$2.00	\$1.40	\$368.96

Specie	Amortization	Pond Value	Stumpage	Amortized
Western Hemlock / Fir	\$0.00	\$387.19	\$150.01	\$0.00
Sitka Spruce	\$0.00	\$396.46	\$118.29	\$0.00
Alder (Red)	\$0.00	\$853.92	\$484.96	\$0.00



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Summary

Amortized

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

Unamortized

Specie	MBF	Value	Total
Western Hemlock / Fir	2,258	\$150.01	\$338,722.58
Sitka Spruce	439	\$118.29	\$51,929.31
Alder (Red)	74	\$484.96	\$35,887.04

Gross Timber Sale Value

Recovery: \$426,538.93

Prepared by: Nick Stumpf

Phone: 503-842-2545



PROJECT SUMMARY SHEET

Sale: Electric Point

CONSTRUCTION

Point	E to F	1+85	stations =	\$3,587.12
Point	G to H	15+90	stations =	\$23,463.01
SUBTOTAL CONSTRUCTION				\$27,050.13

IMPROVEMENT

Point	A to B	37+50	stations =	\$6,947.11
Point	I to J	4+50	stations =	\$2,100.50
SUBTOTAL IMPROVEMENT				\$9,047.61

RECONSTRUCTION

Point	C to D	10+50	stations =	\$11,772.09
SUBTOTAL RECONSTRUCTION				\$11,772.09

SPECIAL PROJECTS

SUBTOTAL SPECIAL PROJECTS \$0.00

MOVE IN

\$1,420.17

GRAND TOTAL **\$49,290.00**

SUMMARY OF CONSTRUCTION COST

Sale:	<u>Electric Point</u>		Road: <u>A to B</u>
Construction -	0+00 stations 0.00 miles		Improvement - 37+50 stations 0.71 miles
CLEARING AND GRUBBING -			TOTAL CLEARING AND GRUBBING \$0.00
EXCAVATION - Road Earthwork	37.50	sta. @	\$10.00 per sta. = <u>\$375.00</u> TOTAL EXCAVATION \$375.00
ENDHAUL -			TOTAL ENDHAUL \$0.00
CULVERTS - MATERIALS & INSTALLATION			
	<u>Culverts</u>		
	26	LF of 18"	\$442.00
	0	LF of 30"	\$0.00
	0	LF of 42"	\$0.00
	0	LF of 54"	\$0.00
	0	LF of 66"	\$0.00
			<u>\$442.00</u>
	<u>Half Rounds</u>		
	0	LF of 21"	\$0.00
	0	LF of 36"	\$0.00
			<u>\$0.00</u>
	<u>Culvert Stakes & Markers</u>		
	0	stakes	\$0.00
	1	markers	\$8.00
			<u>\$8.00</u>
			TOTAL CULVERTS \$450.00
ROCK			
0+00 to	37+50	609	cy. of Crushed
Junction Rock	0+00	10	cy. of Crushed
			@ \$7.64 per c.y. = \$4,652.76
			@ \$7.31 per c.y. = <u>\$73.10</u>
			TOTAL ROCK \$4,725.86
SPECIAL PROJECTS			
Re-shape dented culvert inlet at 0+00 -	0.50	hours @	\$28.00 per hour \$14.00
Reconstruct ditchouts -	2.00	@	\$60.00 each \$120.00
Grade and shape road -	37.50	stations @	\$15.50 per station \$581.25
Roll subgrade w/ vibratory roller prior to rocking -	37.50	stations @	\$13.20 per station \$495.00
Grass seed and fertilize -	0.30	acres @	\$220.00 per acre \$66.00
Mulching -	0.200	acres @	\$600.00 per acre \$120.00
			TOTAL SPECIAL PROJECTS \$1,396.25
GRAND TOTAL			\$6,947.11

SUMMARY OF CONSTRUCTION COST

Sale:	<u>Electric Point</u>			Road: <u>C to D</u>
Construction -	<u>0+00</u> stations <u>0.00</u> miles			Reconstruction - <u>10+50</u> stations <u>0.20</u> miles
 CLEARING AND GRUBBING - Scattering		0.340 acres @	\$980.00 per acre =	<u>\$333.20</u>
			TOTAL CLEARING AND GRUBBING	\$333.20
 EXCAVATION - Road Earthwork		10.50 sta. @	\$140.00 per sta. =	<u>\$1,470.00</u>
			TOTAL EXCAVATION	\$1,470.00
 ENDHAUL -				<u>TOTAL ENDHAUL</u> \$0.00
 CULVERTS - MATERIALS & INSTALLATION				
	<u>Culverts</u>			
	40 LF of 18"		\$680.00	
	0 LF of 30"		\$0.00	
	0 LF of 42"		\$0.00	
	0 LF of 54"		\$0.00	
	0 LF of 66"		\$0.00	
			\$680.00	
	<u>Half Rounds</u>			
	0 LF of 21"		\$0.00	
	0 LF of 36"		\$0.00	
			\$0.00	
	<u>Culvert Stakes & Markers</u>			
	0 stakes		\$0.00	
	1 markers		\$8.00	
			\$8.00	
				<u>TOTAL CULVERTS</u> \$688.00
 ROCK				
0+00 to 10+50	751 cy. of	Pit-Run	@ \$9.94 per c.y. =	\$7,464.94
Junction Rock 0+00	40 cy. of	Pit-Run	@ \$9.85 per c.y. =	\$394.00
Landing Rock 10+50	80 cy. of	Pit-Run	@ \$10.04 per c.y. =	<u>\$803.20</u>
				<u>TOTAL ROCK</u> \$8,662.14
 SPECIAL PROJECTS				
Construct ditchouts -	2.00	@	\$60.00 each	\$120.00
Grade and shape road -	10.50	stations @	\$15.50 per station	\$162.75
Roll subgrade w/ vibratory roller prior to rocking -	10.50	stations @	\$13.20 per station	\$138.60
Grass seed and fertilize -	0.24	acres @	\$220.00 per acre	\$52.80
Mulching -	0.241	acres @	\$600.00 per acre	\$144.60
				<u>TOTAL SPECIAL PROJECTS</u> \$618.75
			GRAND TOTAL	\$11,772.09

SUMMARY OF CONSTRUCTION COST

Sale:	Electric Point				Road:	E to F			
Construction -	1+85		stations		Improvement -	0+00		stations	
	0.04		miles			0.00		miles	
CLEARING AND GRUBBING - Scattering				0.170 acres @	\$980.00	per acre =	\$166.60		\$166.60
						TOTAL CLEARING AND GRUBBING			
EXCAVATION - Road Earthwork				1.85 sta. @	\$140.00	per sta. =	\$259.00		\$259.00
						TOTAL EXCAVATION			
ENDHAUL -						TOTAL ENDHAUL			\$0.00
CULVERTS - MATERIALS & INSTALLATION					\$0.00	TOTAL CULVERTS			\$0.00
ROCK									
0+00 to	1+85	146	cy. of	Pit-Run	@	\$10.27 per c.y. =	\$1,499.42		
Junction Rock	0+00	40	cy. of	Pit-Run	@	\$10.25 per c.y. =	\$410.00		
Landing Rock	1+85	80	cy. of	Pit-Run	@	\$10.28 per c.y. =	\$822.40		\$2,731.82
						TOTAL ROCK			
SPECIAL PROJECTS									
Construct landing -				1.00 @	\$250.00	each	\$250.00		
Grade and shape road -				1.85 stations @	\$15.50	per station	\$28.68		
Roll subgrade w/ vibratory roller prior to rocking -				1.85 stations @	\$13.20	per station	\$24.42		
Remove large stumps -				1.00 lump sum @	\$75.00		\$75.00		
Grass seed and fertilize -				0.12 acres @	\$220.00	per acre	\$26.40		
Mulching -				0.042 acres @	\$600.00	per acre	\$25.20		
						TOTAL SPECIAL PROJECTS			\$429.70
GRAND TOTAL								\$3,587.12	

SUMMARY OF CONSTRUCTION COST

Sale:	<u>Electric Point</u>		Road: <u>G to H</u>	
Construction -	<u>15+90</u> stations <u>0.30</u> miles		Improvement -	<u>0+00</u> stations <u>0.00</u> miles
CLEARING AND GRUBBING - Scattering		1.460 acres @	\$980.00 per acre =	<u>\$1,430.80</u>
			TOTAL CLEARING AND GRUBBING	\$1,430.80
EXCAVATION - Road Earthwork		15.90 sta. @	\$140.00 per sta. =	<u>\$2,226.00</u>
			TOTAL EXCAVATION	\$2,226.00
ENDHAUL -			TOTAL ENDHAUL	\$0.00
CULVERTS - MATERIALS & INSTALLATION		\$0.00	TOTAL CULVERTS	\$0.00
ROCK				
0+00 to 15+90	1,171	cy. of	Pit-Run @ \$7.38 per c.y. =	\$8,641.98
Junction Rock 0+00	40	cy. of	Pit-Run @ \$7.21 per c.y. =	\$288.40
Landing Rock 15+90	80	cy. of	Pit-Run @ \$7.54 per c.y. =	\$603.20
Gate Protection 0+50	20	cy. of	Riprap @ \$6.07 per c.y. =	<u>\$121.40</u>
			TOTAL ROCK	\$9,654.98
SPECIAL PROJECTS				
Gate Acquisition & Shipment	1.00	gate @	\$6,221.50 per gate	\$6,221.50
Concrete Bases For Gate Posts	6.00	c.y. @	\$100.00 per c.y.	\$600.00
Gate Installation	4.00	hr.s @	\$187.50 per hr.	\$750.00
Construct turnaround at station 11+20 -	1.00	@	\$75.00 each	\$75.00
Construct landing -	1.00	@	\$250.00 each	\$250.00
Fill roadway from station 0+00 to 0+90 -	2.00	hours @	\$145.00 per hour	\$290.00
Fill roadway @ station 3+45 -	2.00	hours @	\$145.00 per hour	\$290.00
Grade and shape road -	15.90	stations @	\$15.50 per station	\$246.45
Construct waterbar on powerline road above station 3+45 -	1.00	@	\$25.00 each	\$25.00
Roll subgrade w/ vibratory roller prior to rocking -	15.90	stations @	\$13.20 per station	\$209.88
Remove large stumps -	10.00	lump sum @	\$75.00	\$750.00
Grass seed and fertilize -	1.02	acres @	\$220.00 per acre	\$224.40
Mulching -	0.365	acres @	\$600.00 per acre	<u>\$219.00</u>
			TOTAL SPECIAL PROJECTS	\$10,151.23
			GRAND TOTAL	\$23,463.01

SUMMARY OF CONSTRUCTION COST

Sale:	<u>Electric Point</u>					Road: <u>I to J</u>	
Construction -	<u>0+00</u> stations <u>0.00</u> miles					Improvement -	<u>4+50</u> stations <u>0.09</u> miles
CLEARING AND GRUBBING - Scattering		0.040	acres @	\$980.00	per acre =	\$39.20	
						<u>TOTAL CLEARING AND GRUBBING</u>	\$39.20
EXCAVATION - Road Earthwork		4.50	sta. @	\$140.00	per sta. =	\$630.00	
						<u>TOTAL EXCAVATION</u>	\$630.00
ENDHAUL -						<u>TOTAL ENDHAUL</u>	\$0.00
		\$0.00				<u>TOTAL CULVERTS</u>	\$0.00
ROCK							
0+00 to	4+50	325	cy. of	Pit-Run	@	\$2.63 per c.y.=	\$854.75
Junction Rock	0+00	40	cy. of	Pit-Run	@	\$1.53 per c.y.=	\$61.20
Landing Rock	4+50	80	cy. of	Pit-Run	@	\$1.53 per c.y.=	\$122.40
						<u>TOTAL ROCK</u>	\$1,038.35
SPECIAL PROJECTS							
Construct ditchouts -		3.00	@	\$60.00	each		\$180.00
Grade and shape road -		4.50	stations @	\$15.50	per station		\$69.75
Roll subgrade w/ vibratory roller prior to rocking -		4.50	stations @	\$13.20	per station		\$59.40
Grass seed and fertilize -		0.10	acres @	\$220.00	per acre		\$22.00
Mulching -		0.103	acres @	\$600.00	per acre		\$61.80
						<u>TOTAL SPECIAL PROJECTS</u>	\$392.95
						GRAND TOTAL	\$2,100.50

ROCK DEVELOPMENT COST SUMMARY

Pit:	Pit Run	Location:	NE1/4 SW1/4 Sec.23, T1N, R10W, W.M.
Sale:	Electric Point	Road:	2893 c.y.
Swell:	1.40	Stockpile:	c.y.
Shrinkage	1.16	Total Truck Loads:	2893 c.y.
Drill Pct.:	25%	In Place Total:	2066 c.y.

Pit Development & Cleanup including Clearing and grubbing of Waste Area @ adjacent to pit, place overburden in Waste Area, spread and compact.	\$1,604.80
Drill & Shoot:	\$2.50 /cu.yd. x 517 cu.yds. = \$1,292.50
Rip Rock	\$1.90 /cu.yd. x 1549 cu.yds. = \$2,943.10
Load Dump Truck:	\$0.70 /cu.yd. x 2893 cu.yds. = \$2,025.10

Subtotal \$7,865.50

				Local Move		
Move In and set up Drill and Compressor	1	@	\$284.05	\$0.00	=	\$284.05
Move in Roller	1	@	\$284.05	\$134.40	=	\$418.45
Move in Grader	1	@	\$272.57	\$60.00	=	\$332.57
Move in D-8	1	@	\$368.39	\$0.00	=	\$368.39
Move in Excavator	1	@	\$396.26	\$0.00	=	\$396.26
Move in Trucks	2	@	\$86.31	\$0.00	=	\$172.62
Move in Water Truck	1	@	\$101.46	\$0.00	=	\$101.46
					Subtotal	\$2,073.80

TOTAL PRODUCTION COSTS \$9,939.30

Base Cost= \$3.44 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	\$4.80	\$1.70	\$3.44	\$9.94	751	\$7,464.94
C to D Junction Rock	\$4.71	\$1.70	\$3.44	\$9.85	40	\$394.00
C to D Landing Rock	\$4.90	\$1.70	\$3.44	\$10.04	80	\$803.20
E to F	\$5.13	\$1.70	\$3.44	\$10.27	146	\$1,499.42
E to F Junction Rock	\$5.11	\$1.70	\$3.44	\$10.25	40	\$410.00
E to F Landing Rock	\$5.14	\$1.70	\$3.44	\$10.28	80	\$822.40
G to H	\$2.24	\$1.70	\$3.44	\$7.38	1171	\$8,641.98
G to H Junction Rock	\$2.07	\$1.70	\$3.44	\$7.21	40	\$288.40
G to H Landing Rock	\$2.40	\$1.70	\$3.44	\$7.54	80	\$603.20
G to H Gate Protection	\$0.93	\$1.70	\$3.44	\$6.07	20	\$121.40
I to J	\$1.65	\$1.70	\$3.44	\$6.79	325	\$2,206.75
I to J Junction Rock	\$1.61	\$1.70	\$3.44	\$6.75	40	\$270.00
I to J Landing Rock	\$1.70	\$1.70	\$3.44	\$6.84	80	\$547.20
				Total C.Y.	2893	Sub Total \$24,072.89

TOTAL ROCKING COSTS \$24,072.89

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Crushed Rock Stockpile	Location:	SW1/4 SW1/4 Sec.23, T1N, R10W, W.M.
Sale:	Electric Point	Road:	619 c.y.
Swell:	1.40	Stockpile:	c.y.
Shrinkage	1.16	Total Truck Loads:	619 c.y.
Drill Pct.:	0%	In Place Total:	442 c.y.

Load Dump Truck: \$0.70 /cu.yd. x 619 cu.yds. = \$433.30

Subtotal \$433.30

Move in Loader 1 @ \$266.44 = \$266.44

Subtotal \$266.44

Base Cost= \$1.13 Per Cu.Yd.

TOTAL PRODUCTION COSTS \$699.74

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	4.06	2.45	1.13	7.64	609	4,652.76
A to B Junction Rock	3.73	2.45	1.13	7.31	10	73.10
				Total C.Y.	619	Sub Total 4,725.86

TOTAL ROCKING COSTS 4,725.86

Move-In Calculations

Sale: Electric Point

LOWBOY HAUL (Round Trip)		
DIST. (mi)	ROADWAY	AVE SPEED (mph)
24.0	Pavement	30
5.0	Main Lines	7
0.0	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	Excavators (Large)	\$414.66	1	\$44.80	0.00	3.00	3	\$134.40	\$549.06
1	Tractor (D8)	\$405.19	2	\$44.80	0.00	3.00	3	\$134.40	\$539.59
2	Dump Truck (10 cy +)	\$212.00		\$2.85	0.00	3.00	3	\$17.10	\$229.10
1	Water Truck (1500 Gal)	\$93.87		\$2.85	0.00	3.00	3	\$8.55	\$102.42
TOTAL MOVE-IN COSTS:									\$1,420.17



CRUISE REPORT

Electric Point

1. **Type of Sale:** Modified Clear-Cut, and Partial Cut – Recovery
2. **Legal Description:** Portions of Sections 23, 26, 27, and 34, T1N, R10W, W.M., Tillamook County, Oregon.
3. **Sale Acreage:** The sale boundary was plotted on a digital orthophotograph and the acreage was calculated with GIS.

Area	Harvest Type	Sale	Net
1	Partial Cut	144	127
2	Partial Cut	19	18
3	Modified Clear-Cut	17	17
4	Modified Clear-Cut	2	2
Total		182	164

Sale Acres

Area within the Timber Sale Boundary signs

Net acres for calculating the advertised volume

Sale acres, less areas of low stocking, less roads, and less riparian areas classified as Special Stewardship in LMCS inside the sale boundary.

4. **Cruising Procedures:**
 - A. **Cruise Method:** A total of 53 variable radius plots were taken. Cruise lines and plots were placed to obtain representative sampling intensities throughout the four sale areas on a 300' x 300' square grid. All trees were recorded by species, merchantable height, form, and diameter class. Diameters were measured to the nearest inch and heights to the nearest foot. Conifers less than 8" DBH and hardwood less than 10" DBH were not sampled.
 - B. **Plot size:** A basal area factor of 54.40 was used for conifers and a basal area of 40 was used for Alder. The point of tree observation was 4.5 feet.
 - C. **Grading System:** Tree heights were measured to a 6" merchantable top for Douglas-fir, 7" for Hemlock, and 8" for hardwoods outside bark. Conifer was graded using

Columbia River rules favoring a 40' log. Alder was graded to the top end diameter for determining sort while still favoring a 40' log. Hardwood grade were as follows: 2S equals 12" and greater, 3S equals 10" and 11", and 4S equals 8" and 9".

D. **Defect and Breakage:** A 5% defect and breakage reduction was applied to conifers and a 10% reduction to hardwood volumes for hidden defect. This was in addition to visual defect deducted during the cruise.

E. **Cruiser Names / Dates:** Wells, Yau, Goetz, Savage, Luttrell, Lee, Wallmark and Stumpf, March 2007

5. **Computation Procedures:** Plot data was entered into SuperAce for computation of stand tables. Take and leave trees were determined by reviewing diameters and defect on each plot and SuperAce was rerun to compute basal area, V-BAR, stand tables and diameters. Each Area was individually computed for volume then summarized for total sale volume. This data was entered into a volume summary worksheet to compute final sale volumes.

Area	S.E. (%)	C.V. (%)
A1/A4	6.3	40
A2	13	33
A3	30	61

6. **Timber Description:** The sale contains 70 year old Hemlock, Spruce, Douglas-fir and Alder. The stand is natural regeneration. Red alder and Douglas-fir are a small component throughout Areas 1 and 2. Red alder is a component of Area 3.

7. **Revenue Distribution:**

100% FDF

Tax Code: 56 = 1834 Net conifer MBF (74%)

56-8 = 845 Net conifer MBF (26%)

Deed No. 186, 495

8. **Appendices:**

- Volume Summary Tables
- Super Ace Stand Table
- Log Stock Table
- Logging Plan Exhibit

Electric Point

Area 1 Partial cut						
127 acres						
SPECIES	Basal Area Per Acre	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Hemlock	78	167	13.0	1651	5%	1568
Spruce	17	116	2.0	254	5%	241
TOTAL			15.0	1905		1809

Area 2 Partial Cut						
18 acres						
SPECIES	Basal Area Per Acre	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Hemlock	78	178	13.9	250	5%	238
Spruce	86	123	10.6	191	5%	181
Alder	17	49	0.8	14	10%	13
TOTAL			25.3	455		432

Area 3 Modified Clear-Cut						
17 acres						
SPECIES	Basal Area Per Acre	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Hemlock	152	151	23.0	391	5%	371
Alder	80	50	4.0	68	10%	61
TOTAL			27.0	459		432

Area 4 Modified Clear-Cut

2 acres at 51,400 Net BdFt/Acre = 103 net Volume MBF 100% ground
 Hemlock Volume = 85 MBF x 5% D & B = 81
 Spruce Volume = 18 MBF x 5% D & B = 17

Total 98 MBF

TOTAL SALE VOLUME			
SPECIES	Gross Vol (MBF)		Net Vol (MBF)
Hemlock	2292		2258
Spruce	445		439
Alder	82		74
TOTAL	2819		2771

Total Acres 164

TC TSTNDSUM		Stand Table Summary														
Project EP																
T001 R010 S22 T0001										T001 R010 S22 T0001						
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page:	1							
001	010	22	AREA1	0001	127.00	41	221	Date:	06/06/201							
								Time:	12:54:49PM							
Spc	S T	DBH	Sample Trees	FF 16'	Av Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Cu.Ft.	Net Cu.Ft.	Net Bd.Ft.	Totals		
									Net Cu.Ft.	Net Bd.Ft.				Tons Acre	Tons	Cunits
WL		20	2	85	95	1.217	2.66	2.43	40.7	147.5	3.17	99	359	403	126	46
WL		21	1	86	101	.552	1.33	1.10	47.4	175.0	1.67	52	193	213	66	25
WL		22	3	82	120	1.509	3.98	4.02	41.6	160.0	5.35	167	644	680	212	82
WL		23	1	85	138	.460	1.33	1.38	48.2	213.3	2.13	67	295	270	84	37
WL		24	4	86	115	1.691	5.31	4.23	54.6	243.0	7.38	231	1,027	937	293	130
WL		25	6	84	118	2.338	7.97	6.62	52.9	231.2	11.22	351	1,531	1,425	445	194
WL		26	9	85	127	3.242	11.95	9.37	59.2	278.5	17.74	554	2,608	2,253	704	331
WL		27	6	85	115	2.004	7.97	5.01	68.8	284.7	11.04	345	1,426	1,402	438	181
WL		28	7	84	124	2.174	9.30	6.21	64.8	282.5	12.88	403	1,755	1,636	511	223
WL		29	2	88	148	.579	2.66	2.03	66.6	378.6	4.32	135	767	548	171	97
WL		30	12	86	125	3.247	15.94	9.74	75.2	355.8	23.42	732	3,466	2,975	930	440
WL		31	3	83	143	.760	3.98	2.79	73.5	369.1	6.56	205	1,029	833	260	131
WL		32	7	85	123	1.665	9.30	4.99	86.0	392.4	13.75	429	1,959	1,746	545	249
WL		33	2	86	143	.447	2.66	1.57	91.0	452.9	4.56	142	709	579	181	90
WL		34	5	86	134	1.053	6.64	3.16	105.0	512.0	10.61	332	1,618	1,348	421	205
WL		35	2	85	138	.398	2.66	1.19	105.5	501.7	4.02	126	598	511	160	76
WL		36	10	84	115	1.879	13.28	5.07	104.9	497.8	17.03	532	2,525	2,163	676	321
WL		37	3	84	124	.534	3.98	1.42	127.0	593.8	5.78	181	845	735	230	107
WL		38	6	86	132	1.012	7.97	2.70	122.7	650.6	10.60	331	1,755	1,346	420	223
WL		40	2	84	127	.304	2.66	.76	148.7	702.0	3.62	113	534	460	144	68
WL		42	1	86	120	.138	1.33	.41	148.9	696.7	1.97	62	288	251	78	37
WL		43	1	82	136	.132	1.33	.40	163.4	673.3	2.06	65	266	262	82	34
WL		44	4	85	104	.503	5.31	1.13	186.4	895.6	6.75	211	1,014	857	268	129
WL		46	1	85	151	.115	1.33	.35	150.0	866.7	1.66	52	299	211	66	38
WL		48	3	80	126	.317	3.98	.74	233.6	972.9	5.53	173	720	702	219	91
WL		50	2	84	132	.195	2.66	.58	217.4	1073.3	4.07	127	627	516	161	80
WL		52	1	83	134	.090	1.33	.27	254.5	1320.0	2.20	69	357	279	87	45
WL		59	1	84	107	.070	1.33									
WL	Totals		107	85	123	28.624	142.10	79.68	78.9	366.6	201.10	6,284	29,214	25,540	7,981	3,710
WH		10	2	84	50	4.870	2.66	4.87	9.8	40.0	1.53	48	195	195	61	25
WH		14	2	85	104	2.485	2.66	4.97	19.6	77.5	3.10	97	385	394	123	49
WH		15	3	86	107	3.247	3.98	7.58	21.7	98.6	5.26	164	747	668	209	95
WH		16	5	81	94	4.756	6.64	10.46	22.3	82.7	7.48	234	866	949	297	110
WH		17	3	85	99	2.528	3.98	5.90	21.9	84.3	4.14	129	497	526	164	63
WH		18	3	86	110	2.255	3.98	5.26	28.4	110.0	4.78	149	579	608	190	73
WH		19	4	84	105	2.698	5.31	6.74	30.0	114.0	6.49	203	769	824	257	98
WH		20	4	82	109	2.435	5.31	6.09	35.4	127.0	6.90	216	773	876	274	98
WH		21	4	81	111	2.209	5.31	5.52	39.0	143.0	6.89	215	790	874	273	100
WH		22	3	85	121	1.509	3.98	4.02	37.5	160.0	4.83	151	644	613	192	82
WH		23	6	86	117	2.762	7.97	7.36	48.0	217.5	11.32	354	1,602	1,437	449	203
WH		24	5	85	131	2.114	6.64	6.34	48.2	217.3	9.79	306	1,378	1,243	388	175
WH		25	4	86	120	1.558	5.31	4.29	56.5	249.1	7.75	242	1,067	984	308	136
WH		26	2	82	83	.720	2.66	1.08	70.6	233.3	2.44	76	252	310	97	32
WH		27	2	83	103	.668	2.66	1.67	58.5	232.0	3.12	98	387	397	124	49
WH		28	2	85	146	.621	2.66	1.86	73.0	345.0	4.36	136	643	553	173	82
WH		29	1	86	134	.290	1.33	.87	75.4	363.3	2.10	66	316	266	83	40
WH		30	3	86	121	.812	3.98	2.16	85.4	398.8	5.91	185	863	751	235	110
WH		31	1	86	150	.253	1.33	.76	85.0	413.3	2.07	65	314	263	82	40
WH	Totals		59	84	102	38.788	78.35	87.81	35.7	148.8	100.24	3,133	13,066	12,731	3,979	1,659
SL		18	1	67	92	.752	1.33	1.50	31.7	70.0	1.24	48	105	157	60	13
SL		19	1	85	105	.674	1.33	.67	44.1	160.0	.77	30	108	98	38	14

TC TSTNDSUM		Stand Table Summary														
Project EP																
T001 R010 S22 T0001										T001 R010 S22 T0001						
Twtp	Rge	Sec	Tract		Type	Acres	Plots	Sample Trees			Page:					
001	010	22	AREA1		0001	127.00	41	221			2	Date:	06/06/201			
											Time:	12:54:49PM				
S Spec	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	
SL		22	1	79	86	.503	1.33	.50	57.6	250.0	.75	29	126	96	37	16
SL		23	1	81	111	.460	1.33	1.38	40.4	166.7	1.45	56	230	184	71	29
SL		28	2	86	128	.621	2.66	1.86	69.3	315.0	3.36	129	587	426	164	75
SL		30	4	82	106	1.082	5.31	2.16	93.6	375.0	5.27	203	812	669	257	103
SL		31	2	81	108	.507	2.66	1.27	86.2	344.0	2.84	109	436	361	139	55
SL		32	1	84	105	.238	1.33	.48	81.8	330.0	1.01	39	157	129	49	20
SL		33	1	83	139	.224	1.33	.67	89.8	403.3	1.57	60	271	199	76	34
SL		34	3	83	114	.632	3.98	1.69	102.9	452.5	4.51	173	762	572	220	97
SL		35	1	85	58	.199	1.33	.20	162.0	320.0	.83	32	64	106	41	8
SL		36	4	78	116	.752	5.31	1.69	113.8	457.8	5.00	192	774	635	244	98
SL		37	1	80	74	.178	1.33	.36	60.7	285.0	.56	22	101	71	27	13
SL		38	3	82	108	.506	3.98	1.18	120.2	511.4	3.69	142	604	468	180	77
SL		39	1	82	81	.160	1.33	.32	113.2	365.0	.94	36	117	120	46	15
SL		40	3	83	130	.457	3.98	1.07	151.2	628.6	4.19	161	670	532	205	85
SL		43	1	80	137	.132	1.33	.40	144.9	680.0	1.49	57	269	189	73	34
SL		44	2	87	160	.252	2.66	.63	224.1	1240.0	3.66	141	780	465	179	99
SL	Totals		33	81	109	8.327	43.83	18.02	92.0	386.8	43.14	1,659	6,971	5,479	2,107	885
DL		27	2	83	136	.668	2.66	2.00	61.7	271.7	3.40	124	544	432	157	69
DL		28	1	87	111	.311	1.33	.62	84.6	375.0	1.45	53	233	184	67	30
DL		30	1	91	146	.271	1.33	.81	84.1	433.3	1.88	68	352	238	87	45
DL		32	1	78	145	.238	1.33	.71	81.5	343.3	1.60	58	245	203	74	31
DL		34	1	85	153	.211	1.33	.63	100.8	490.0	1.75	64	310	222	81	39
DL		37	1	87	170	.178	1.33	.71	110.1	640.0	2.15	78	455	274	99	58
DL		42	1	88	179	.138	1.33	.55	143.4	850.0	2.18	79	469	277	101	60
DL	Totals		8	85	142	2.013	10.62	6.05	86.6	431.4	14.40	524	2,608	1,829	665	331
SS		17	1	79	70	.843	1.33	1.69	21.8	70.0	.96	37	118	122	47	15
SS		18	3	76	95	2.255	3.98	3.76	37.2	108.0	3.63	140	406	461	177	52
SS		19	2	82	83	1.349	2.66	2.70	33.0	115.0	2.31	89	310	294	113	39
SS		21	2	77	86	1.104	2.66	2.21	38.2	97.5	2.20	84	215	279	107	27
SS		22	2	84	112	1.006	2.66	2.52	41.4	158.0	2.70	104	397	344	132	50
SS		23	1	80	69	.460	1.33	.92	43.0	110.0	1.03	40	101	131	50	13
SS		24	1	86	106	.423	1.33	.85	55.1	205.0	1.21	47	173	154	59	22
SS		25	1	83	133	.390	1.33	1.17	54.4	233.3	1.65	64	273	210	81	35
SS	Totals		13	80	92	7.829	17.26	15.80	38.2	126.2	15.70	604	1,994	1,994	767	253
RL		21	1	79	104	.552	1.33	1.10	45.8	155.0	1.39	51	171	177	64	22
RL	Totals		1	79	104	.552	1.33	1.10	45.8	155.0	1.39	51	171	177	64	22
Totals			221	84	109	86.133	293.50	208.47	58.8	259.2	375.97	12254	54,025	47,748	15,563	6,861

TC TSTNDSUM															Stand Table Summary																													
Project															EP																													
T001 R010 S22 T0002															T001 R010 S22 T0002																													
Twp Rge Sec Tract															Type Acres Plots Sample Trees															Page: 1														
001 010 22 AREA2															0002 18.00 7 53															Date: 06/06/2011														
																														Time: 11:47:16AM														
S Spc	T	Sample		Av		Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals																														
		DBH	Trees	FF 16'	Ht Tot				Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF																												
SL		30	3	90	120	4.754	23.34	12.68	80.1	376.3	26.40	1,015	4,770	475	183	86																												
SL		38	1	85	88	.988	7.78	1.98	142.9	570.0	7.34	282	1,126	132	51	20																												
SL		40	1	89	137	.891	7.78	2.67	154.0	843.3	10.71	412	2,255	193	74	41																												
SL		42	3	88	122	2.425	23.34	5.66	172.3	815.7	25.35	975	4,616	456	176	83																												
SL		43	1	85	102	.771	7.78	1.54	206.5	880.0	8.28	319	1,358	149	57	24																												
SL		45	1	86	137	.704	7.78	1.41	224.3	965.0	8.21	316	1,359	148	57	24																												
SL		46	1	86	108	.674	7.78	1.35	239.3	1090.0	8.39	323	1,469	151	58	26																												
SL		50	1	81	112	.570	7.78	1.14	289.7	1245.0	8.59	330	1,420	155	59	26																												
SL		54	1	89	148	.489	7.78	1.47	238.4	1323.3	9.09	350	1,942	164	63	35																												
SL		65	1	82	170	.338	7.78	.68	363.6	1290.0	6.38	245	871	115	44	16																												
SL		66	1	91	166	.327	7.78	.98	440.5	2183.3	11.25	433	2,145	202	78	39																												
SL	Totals	15	88	122		12.933	116.68	31.55	158.5	739.5	130.00	5,000	23,331	2,340	900	420																												
WL		31	1	86	131	1.484	7.78	2.97	106.0	455.0	10.07	315	1,350	181	57	24																												
WL		34	3	89	140	3.701	23.34	11.10	98.6	523.3	35.03	1,095	5,811	631	197	105																												
WL		35	2	88	143	2.328	15.56	6.99	108.0	563.3	24.15	755	3,935	435	136	71																												
WL		37	2	85	120	2.084	15.56	5.21	129.3	612.0	21.55	673	3,188	388	121	57																												
WL		41	2	90	120	1.697	15.56	5.09	143.4	773.3	23.36	730	3,937	421	131	71																												
WL		42	1	93	170	.808	7.78	2.43	171.3	986.7	13.30	415	2,393	239	75	43																												
WL		51	1	92	129	.548	7.78	1.64	245.7	1406.7	12.93	404	2,314	233	73	42																												
WL		52	1	81	74	.527	7.78																																					
WL	Totals	13	88	133		13.178	101.12	35.43	123.8	647.2	140.38	4,387	22,928	2,527	790	413																												
WH		9	1	81	21	17.607	7.78	17.61	5.1	20.0	2.88	90	352	52	16	6																												
WH		15	1	86	70	6.339	7.78	12.68	18.1	75.0	7.33	229	951	132	41	17																												
WH		20	1	92	125	3.565	7.78	10.70	33.1	166.7	11.33	354	1,783	204	64	32																												
WH		22	1	85	100	2.947	7.78	5.89	49.7	175.0	9.38	293	1,031	169	53	19																												
WH		24	1	92	125	2.476	7.78	7.43	49.5	226.7	11.77	368	1,684	212	66	30																												
WH		30	1	87	120	1.585	7.78	4.75	64.1	306.7	9.76	305	1,458	176	55	26																												
WH		32	3	88	120	4.178	23.34	11.14	94.7	460.0	33.76	1,055	5,125	608	190	92																												
WH		40	1	86	103	.891	7.78	1.78	176.0	805.0	10.04	314	1,435	181	56	26																												
WH	Totals	10	85	67		39.588	77.79	71.98	41.8	192.0	96.26	3,008	13,819	1,733	541	249																												
SS		14	1	88	43	7.276	7.78	7.28	21.0	50.0	3.95	153	364	71	28	7																												
SS		19	1	85	100	3.951	7.78	7.90	36.1	125.0	7.42	286	988	134	51	18																												
SS		20	1	86	68	3.565	7.78	3.57	52.5	120.0	4.86	187	428	88	34	8																												
SS		22	1	88	69	2.947	7.78	2.95	66.0	140.0	5.06	194	413	91	35	7																												
SS		26	1	85	109	2.110	7.78	6.33	54.0	243.3	8.89	342	1,540	160	62	28																												
SS		27	1	91	120	1.956	7.78	3.91	76.7	330.0	7.80	300	1,291	140	54	23																												
SS		28	2	88	94	3.638	15.56	3.64	90.7	375.0	8.58	330	1,364	154	59	25																												
SS		29	2	88	105	3.392	15.56	8.48	76.2	342.0	16.79	646	2,900	302	116	52																												
SS		30	1	86	97	1.585	7.78	3.17	98.3	390.0	8.10	311	1,236	146	56	22																												
SS	Totals	11	87	81		30.420	85.56	47.22	58.2	222.9	71.45	2,749	10,523	1,286	495	189																												
RA		12	1	79	55	7.276	5.71	7.28	13.6	40.0	2.72	99	291	49	18	5																												
RA		13	1	80	51	6.199	5.71	6.20	17.2	50.0	2.92	106	310	53	19	6																												
RA		16	1	80	44	4.093	5.71	4.09	26.2	60.0	2.95	107	246	53	19	4																												
RA	Totals	3	80	51		17.568	17.14	17.57	17.8	48.2	8.60	313	847	155	56	15																												
RL		27	1	79	48	1.437	5.71	1.44	93.0	60.0	3.66	134	86	66	24	2																												
RL	Totals	1	79	48		1.437	5.71	1.44	93.0	60.0	3.66	134	86	66	24	2																												
Totals		53	85	82		115.123	404.01	205.18	76.0	348.6	450.33	15590	71,534	8,106	2,806	1,288																												

Stand Table Summary

Project EP

T001 R010 S22 T0003

T001 R010 S22 T0003

Twp Rge Sec Tract
001 010 22 AREA3

Type Acres Plots Sample Trees
0003 17.00 5 27

Page: 1
Date: 06/06/2006
Time: 12:55:29PM

Spc	S T	Sample		Av		Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals		
		DBH	Trees	FF 16'	Ht Tot				Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF
WH		8	1	87	65	31.198	10.89	31.20	8.5	40.0	8.48	265	1,248	144	45	21
WH		12	2	88	100	27.731	21.78	55.46	14.3	60.0	25.46	796	3,328	433	135	57
WH		13	1	88	95	11.814	10.89	23.63	17.8	75.0	13.45	420	1,772	229	71	30
WH		14	1	88	106	10.187	10.89	20.37	19.9	80.0	12.97	405	1,630	220	69	28
WH		16	1	87	100	7.799	10.89	15.60	27.4	115.0	13.68	428	1,794	233	73	30
WH		17	2	87	106	13.818	21.78	27.64	31.8	125.0	28.11	878	3,454	478	149	59
WH		18	1	87	110	6.162	10.89	12.32	34.9	130.0	13.75	430	1,602	234	73	27
WH		19	1	88	105	5.531	10.89	11.06	40.1	150.0	14.19	443	1,659	241	75	28
WH		21	1	88	98	4.528	10.89	9.06	45.5	170.0	13.18	412	1,539	224	70	26
WH		23	2	88	102	7.549	21.78	15.10	57.8	227.5	27.93	873	3,435	475	148	58
WH		24	1	88	106	3.466	10.89	6.93	59.7	230.0	13.25	414	1,595	225	70	27
WH	Totals		14	88	93	129.783	152.46	228.37	25.2	101.0	184.45	5,764	23,056	3,136	980	392
SL		29	1	87	106	2.374	10.89	4.75	84.6	335.0	10.45	402	1,591	178	68	27
SL		47	1	84	182	.904	10.89	1.81	307.3	1645.0	14.45	555	2,974	246	94	51
SL	Totals		2	86	127	3.278	21.78	6.56	146.0	696.2	24.90	957	4,564	423	163	78
RA		11	4	80	49	48.488	32.00	48.49	9.3	32.5	12.45	453	1,576	212	77	27
RA		12	1	80	68	10.186	8.00	10.19	16.4	50.0	4.61	168	509	78	28	9
RA		13	1	80	48	8.679	8.00	8.68	15.2	40.0	3.64	132	347	62	23	6
RA		16	2	79	51	11.459	16.00	11.46	27.9	85.0	8.78	319	974	149	54	17
RA		17	2	80	46	10.151	16.00	10.15	29.5	60.0	8.31	299	609	141	51	10
RA	Totals		10	80	51	88.963	80.00	88.96	15.4	45.1	37.78	1,371	4,015	642	233	68
WL		25	1	74	75	3.195	10.89	6.39	55.2	135.0	11.29	353	863	192	60	15
WL	Totals		1	74	75	3.195	10.89	6.39	55.2	135.0	11.29	353	863	192	60	15
Totals			27	84	77	225.219	265.13	330.28	25.6	98.4	258.42	8445	32,498	4,393	1,436	552

Log Stock Table - MBF

Project: EP

T001 R010 S22 T0001

T001 R010 S22 T0001

Twp Rge Sec Tract Type Acres Plots Sample Trees
 001 010 22 AREA1 0001 127.00 41 221

Page 3
 Date 6/6/2007
 Time 12:55:11PM

Spp	T	S	So	Gr	Log	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+		
SL		DO	4M	26		2		2	.2				2										
SL		Totals				906	2.3	885	12.9				3	22	39	39	79	144	276	222	61		
SS		DO	2M	40		61	1.0	60	23.9					15	22	23							
SS		DO	3M	32		36		36	14.2				25	11									
SS		DO	3M	36		5		5	2.0			5											
SS		DO	3M	40		133	1.1	131	51.9			13	44	55	19								
SS		DO	4M	15		1		1	.5			1											
SS		DO	4M	18		3		3	1.3			3											
SS		DO	4M	19		2		2	.8					2									
SS		DO	4M	20		3		3	1.2			3											
SS		DO	4M	21		4		4	1.6			4											
SS		DO	4M	31		4		4	1.5			4											
SS		DO	4M	32		3		3	1.1			3											
SS		Totals				255		253	3.7			37	2	69	81	42	23						
DL		DO	2M	40		280		280	84.5						9	95	94	51	31				
DL		DO	3M	29		2		2	.6			2											
DL		DO	3M	31		2		2	.6			2											
DL		DO	3M	40		39		39	11.9				14		19	7							
DL		DO	4M	16		3		3	.8				3										
DL		DO	4M	21		1		1	.4			1											
DL		DO	4M	24		1		1	.4				1										
DL		DO	4M	37		3		3	.9			3											
DL		Totals				331		331	4.8			4	5	16		28	102	94	51	31			
RL		DO	CR	32		5		5	22.6			5											
RL		DO	CR	40		17		17	77.4					17									
RL		Totals				22		22	.3			5		17									
Total All Species						6,958	1.4	6,861	100.0			252	239	528	650	697	1698	1424	1088	284			

TC TLOGSTVB

Log Stock Table - MBF

Project: EP

T001 R010 S22 T0002

T001 R010 S22 T0002

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	2
001	010	22	AREA2	0002	18.00	7	53	Date	6/6/2007
								Time	12:54:15PM

Spp	T	S	So	Gr	Log	Gross	% Def	Net	% Spc	Net Volume by Scaling Diameter in Inches											
										MBF	MBF	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29
WH		DO	3M	40		51	4.4	49	19.7			3	3	8		35					
WH		DO	4M	15		1		1	.4			1									
WH		DO	4M	16		6		6	2.5			6									
WH		DO	4M	19		1		1	.5			1									
WH		DO	4M	21		3		3	1.4			3									
WH		DO	4M	32		2		2	.9				2								
WH		Totals				251		249	19.3			15	6	31	4	51	35	60	47		
RA		DO	4M	24		5		5	34.4			5									
RA		DO	4M	27		6		6	36.6			6									
RA		DO	4M	30		4		4	29.0			4									
RA		Totals				15		15	1.2			15									
RL		DO	4M	40		2	33.3	2	100.0			2									
RL		Totals				2	33.3	2	.1			2									
Total All Species						1,301		1,288	100.0			30	39	60	47	77	192	241	336	240	26

Log Stock Table - MBF

Project: EP

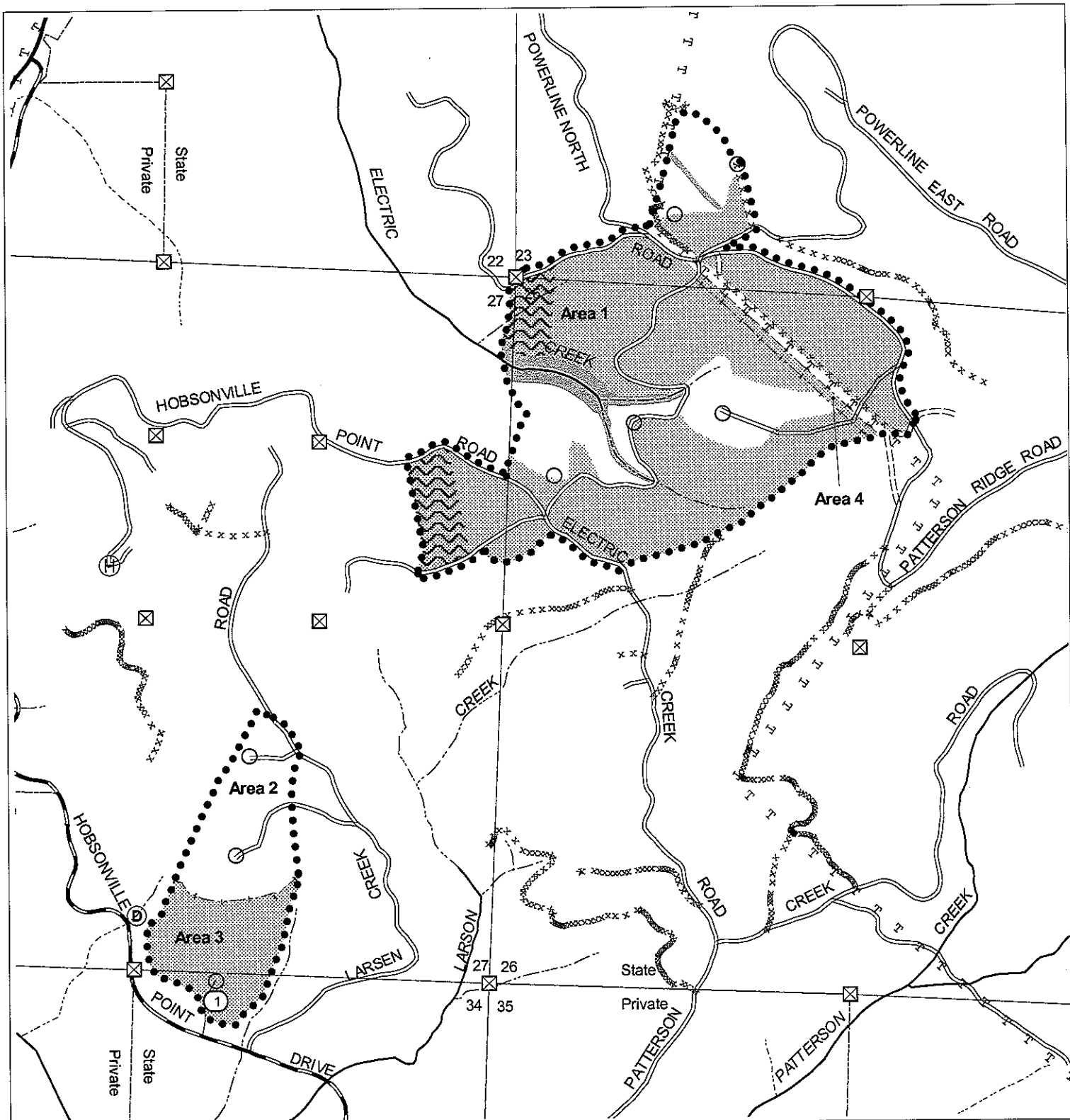
T001 R010 S22 T0003

T001 R010 S22 T0003

Twp Rge Sec Tract Type Acres Plots Sample Trees
 001 010 22 AREA3 0003 17.00 5 27

Page 1
 Date 6/6/2007
 Time 12:55:47PM

Spp	T	S	So	Gr	Log	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
WH		DO	2M	40		162		162	41.2				67	45	49					
WH		DO	3M	32		7		7	1.7			7								
WH		DO	3M	33		6		6	1.5			6								
WH		DO	3M	34		4		4	1.0			4								
WH		DO	3M	36		4		4	.9			4								
WH		DO	3M	38		6		6	1.6			6								
WH		DO	3M	40		156		156	39.8			18	93	45						
WH		DO	4M	21		7		7	1.8			7								
WH		DO	4M	23		7		7	1.8			7								
WH		DO	4M	26		6		6	1.5			6								
WH		DO	4M	30		7		7	1.8			7								
WH		DO	4M	35		21		21	5.4			21								
WH		Totals				392		392	70.9			21	71	93	45	67	45	49		
RA		DO	3M	26		6		6	8.6			6								
RA		DO	3M	29		6	14.3	5	7.6			5								
RA		DO	3M	30		17	5.1	16	23.3			5	11							
RA		DO	4M	18		19		19	27.2			19								
RA		DO	4M	20		8		8	12.1			8								
RA		DO	4M	24		6		6	8.6			6								
RA		DO	4M	29		9		9	12.7			9								
RA		Totals				70	2.5	68	12.4			58	11							
SL		DO	2M	40		58		58	74.6						24				34	
SL		DO	4M	33		3		3	3.6			3								
SL		DO	4M	40		22	24.7	17	21.8									17		
SL		Totals				83	6.7	78	14.0			3			24			17	34	
WL		DO	4M	21		2		2	11.1			2								
WL		DO	4M	40		13		13	88.9				13							
WL		Totals				15		15	2.7			2		13						
Total All Species						560	1.3	552	100.0		21	73	153	56	80	45	73		17	34



- Landing
- Ⓧ Domestic water supply intake
- Ⓜ Helicopter landing zone
- Ⓣ Truck turn-around
- ⓧ Survey corner
- Cable yarding
- ▨ Ground yarding
- ▩ Helicopter yarding
- ⋯ Seasonal Restriction
- ▨ Buffer
- ▨ Non-required thinning
- - - Area boundary
- Sale boundary
- Ownership boundary
- Perennial Type-F stream
- - - Perennial Type-N stream
- Surfaced road
- Unsurfaced road
- State/Federal highway
- County road
- Ⓧ Non-project road
- - - Swing road
- Legacy road
- xxx Blocked road
- ⋯ OHV trail
- ⋯ Non-motorized trail
- T T Transmission line

LOGGING PLAN

Timber Sale Contract No. 341-08-43
 Electric Point
 Portions of Sections 23, 26, 27,
 and 34, T1N, R10W, W. M.
 Tillamook County, Oregon

Area	Type of Operation	Acres	
		Gross	Net
1	Partial Cut	144	127
2	Partial Cut	19	18
3	Modified ClearCut	17	17
4	Modified ClearCut	2	2
Total		182	164



Tillamook District GIS
 May 23, 2007

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