



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Blue Potato
Sale 341-07-78

District: Tillamook

Date: May 16, 2007

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sales Value	\$228,706.24	\$572,086.20	\$800,792.44
		Project Work:	\$(110,120.00)
		Advertised Value:	\$690,672.44



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Timber Description

Location: Portions of Sections 10, 11, 13, 14, and 15, T1S, R8W, W.M., Tillamook County, Oregon.

Stand Stocking: 60%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	12	0	95
Western Hemlock / Fir	14	0	95
Sitka Spruce	14	0	95
Alder (Red)	15	0	90

Volume by Grade	2S	2S 12"+	3S	3S 10" - "	4S	4S 8" - 9'	Total
Douglas - Fir	55	0	387	0	384	0	826
Western Hemlock / Fir	0	0	31	0	147	0	178
Sitka Spruce	0	0	10	0	101	0	111
Alder (Red)	0	5	0	64	0	1,204	1,273
Total	55	5	428	64	632	1,204	2,388



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Comments: Pond Values Used: 1st Quarter Calendar Year 2007 + Local Pond Values

Western Red Cedar Stumpage Price = Pond Value minus Logging Cost
 $\$835/\text{MBF} = \$1,150/\text{MBF} - \$315/\text{MBF}$

Hauling cost equivalent to \$700 daily truck cost.

Slash Disposal:

Machine Piling: 40 hrs @ \$140/hr + 111 move in = \$5,711

Pile Covering: 40 hrs @ \$10/hr = \$400

TOTAL Slash Disposal = \$6,111

Other Costs (Profit and Risk to be added):

Brand and Paint-\$2/MBF x 2388 MBF = \$4,776

Snag creation-girdle at base- \$10/tree x 250 = \$2,500

Temporary Culvert removal:

(2 culverts at Project point B) 6hrs @ \$140/hr + \$60 (\$1 per foot)
=\$900

Move in excavator (for culvert removal and tank traps) = \$500

Tractor Swing: (Area 1)...18 acres x \$50/mbf x 5.7mbf = \$5,130

TOTAL Other Costs (Profit and Risk to be added) = \$13,806

Other Costs (No Profit and Risk added):

Landing slash piling and sorting: (88 acres of cable harvest /
50acres/hour) x \$125/hr = \$220

Tank Trap installation (Within Points E to F)- 3 traps... 2 Hrs @
140/hr = \$280

(Excavator move in done with culvert removal)

Water Bars \$25/bar x 8 = \$200

Non-project Road # 1.... 24 stations x \$110/station = \$2,640

Non-project Road # 2.... 78 stations x \$110/station = \$8,580

Non-project Road # 3.... 31 stations x \$110/station = \$3,410

Non-project Road # 4.... 11 stations x \$110/station = \$1,210

Approach rock (pit run) Area 1...1 station x 50 yds³ x \$7.00 = \$350

TOTAL Other Costs (No Profit and Risk to be added) = \$16,890

Road Maintenance: Fawn Holly Road, Kansas Creek Road, Potato Ridge
Road, and Blue Ridge Road: \$ 3.50

Final Grading: \$500/mile x 3.4 miles / 2388 MBF = \$.71/MBF

Surfacing and Compaction: ((364 stations x \$18/station) + \$111
move-in)/2388MBF = \$ 2.79/MBF

Water is required for final surfacing and compaction on Kansas
Creek Road and Blue Ridge Road.

\$.71 + \$2.79 = \$3.50



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Logging Conditions

Combination#: 1

	Douglas - Fir	12.76%
	Western Hemlock / Fir	74.72%
	Sitka Spruce	38.20%
	Alder (Red)	30.66%
Yarding Distance	Medium (800 ft)	Downhill Yarding: No
Logging System:	Cable: Small Tower <=40	Process: Stroke Delimber
Tree Size:	Small / Thinning 9in (70 Bft/tree), 20+ logs/MBF	
Loads / Day:	4.0	Bd. Ft / Load: 3,400
Cost / MBF:	\$208.40	
Machines:	Log Loader (A) Stroke Delimber (A) Tower Yarder (Small)	

Combination#: 2

	Douglas - Fir	87.24%
	Western Hemlock / Fir	25.28%
	Sitka Spruce	61.80%
	Alder (Red)	69.34%
Yarding Distance	Medium (800 ft)	Downhill Yarding: No
Logging System:	Wheel Skidder	Process: Manual Falling/Delimiting
Tree Size:	Small / Thinning 9in (70 Bft/tree), 20+ logs/MBF	
Loads / Day:	6.0	Bd. Ft / Load: 3,400
Cost / MBF:	\$155.68	
Machines:	Log Loader (B) Tire Skidder	



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Logging Costs

Operating Seasons:	2.00	Profit Risk:	12.00%
Project Costs:	\$110,120.00	Other Costs (P/R):	\$13,806.00
Slash Disposal:	\$6,111.00	Other Costs:	\$16,890.00

Miles of Road

Road Maintenance: \$3.50

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	3.4
Western Hemlock / Fir	\$0.00	3.0	3.3
Sitka Spruce	\$0.00	3.0	3.3
Alder (Red)	\$0.00	3.0	3.2

Local Pond Values

Date	Specie	Grade	Value
5/16/07	Douglas - Fir	2S	\$555.00
5/16/07	Douglas - Fir	3S	\$555.00
5/16/07	Douglas - Fir	4S	\$555.00
5/16/07	Western Hemlock / Fir	3S	\$420.00
5/16/07	Western Hemlock / Fir	4S	\$420.00
5/16/07	Sitka Spruce	3S	\$420.00
5/16/07	Sitka Spruce	4S	\$420.00
5/16/07	Alder (Red)	4S 8" - 9"	\$740.00



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Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas - Fir									
\$162.41	\$3.68	\$3.67	\$96.51	\$5.78	\$32.65	\$2.56	\$2.00	\$7.07	\$316.33
Western Hemlock / Fir									
\$195.07	\$3.68	\$3.67	\$66.29	\$5.78	\$32.94	\$2.56	\$2.00	\$7.07	\$319.06
Sitka Spruce									
\$175.82	\$3.68	\$3.67	\$66.29	\$5.78	\$30.63	\$2.56	\$2.00	\$7.07	\$297.50
Alder (Red)									
\$171.85	\$3.85	\$3.67	\$71.61	\$5.78	\$30.81	\$2.56	\$2.00	\$7.07	\$299.20

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$555.00	\$238.67	\$0.00
Western Hemlock / Fir	\$0.00	\$420.00	\$100.94	\$0.00
Sitka Spruce	\$0.00	\$420.00	\$122.50	\$0.00
Alder (Red)	\$0.00	\$748.60	\$449.40	\$0.00



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Summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00
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
Douglas - Fir	826	\$238.67	\$197,141.42
Western Hemlock / Fir	178	\$100.94	\$17,967.32
Sitka Spruce	111	\$122.50	\$13,597.50
Alder (Red)	1,273	\$449.40	\$572,086.20

Gross Timber Sale Value

Recovery: \$800,792.44

Prepared by: Nick Stumpf

Phone: 503-842-2545



PROJECT SUMMARY SHEET

Sale: Blue Potato

IMPROVEMENT

Point	E to F	3+00	stations =	\$3,538.11
Point	G to H	5+00	stations =	\$5,812.75
Point	I to J	1+00	stations =	\$6,330.08
Point	K to L	69+00	stations =	\$21,526.25
SUBTOTAL IMPROVEMENT				\$37,207.19

RECONSTRUCTION

Point	A to B	22+00	stations =	\$27,328.31
Point	C to D	39+75	stations =	\$43,435.97
SUBTOTAL IMPROVEMENT				\$70,764.28

MOVE IN

\$2,148.53

GRAND TOTAL

\$110,120.00

SUMMARY OF CONSTRUCTION COST

Sale:	<u>Blue Potato</u>		Road: <u>A to B</u>
Construction -	0+00 stations <u>0.00</u> miles		Reconstruction - 22+00 stations <u>0.42</u> miles
CLEARING AND GRUBBING - Scattering	0.510 acres @		\$980.00 per acre = <u>\$499.80</u> TOTAL CLEARING AND GRUBBING \$499.80
EXCAVATION - Road Earthwork	22.00 sta. @		\$140.00 per sta. = <u>\$3,080.00</u> TOTAL EXCAVATION \$3,080.00
 CULVERTS - MATERIALS & INSTALLATION			
	<u>Culverts</u>		
	40 LF of 18"	\$680.00	30 LF of 24" \$720.00
	72 LF of 30"	\$2,376.00	0 LF of 36" \$0.00
	0 LF of 42"	\$0.00	0 LF of 48" \$0.00
	0 LF of 54"	\$0.00	0 LF of 60" \$0.00
	0 LF of 66"	<u>\$0.00</u>	0 LF of 72" <u>\$0.00</u>
		\$3,056.00	\$720.00
	<u>Half Rounds</u>		
	0 LF of 21"	\$0.00	0 LF of 30" \$0.00
	0 LF of 36"	<u>\$0.00</u>	0 LF of 42" <u>\$0.00</u>
		\$0.00	\$0.00
	<u>Culvert Stakes & Markers</u>		
	0 stakes	\$0.00	
	4 markers	<u>\$32.00</u>	
		\$32.00	TOTAL CULVERTS \$3,808.00
 ROCK			
0+00 to	22+00	1,581 cy. of	Pit-Run @ \$11.65 per c.y. = <u>\$18,418.65</u>
JCT Rock	0+00	40 cy. of	Pit-Run @ \$11.65 per c.y. = <u>\$466.00</u>
			TOTAL ROCK \$18,884.65
 SPECIAL PROJECTS			
Grade and shape road -	22.00	stations @	\$15.50 per station \$341.00
Roll subgrade w/ vibratory roller prior to rocking -	22.00	stations @	\$13.20 per station \$290.40
Grass seed and fertilize -	0.51	acres @	\$220.00 per acre \$121.46
Mulching -	0.505	acres @	\$600.00 per acre \$303.00
			TOTAL SPECIAL PROJECTS \$1,055.86
GRAND TOTAL			\$27,328.31

SUMMARY OF CONSTRUCTION COST

Sale:	<u>Blue Potato</u>					Road:	<u>C to D</u>
Construction -	<u>0+00</u> stations <u>0.00</u> miles					Reconstruction -	<u>39+75</u> stations <u>0.75</u> miles
CLEARING AND GRUBBING - Scattering		1.280	acres @	\$980.00	per acre =	\$1,254.40	
						<u>TOTAL CLEARING AND GRUBBING</u>	\$1,254.40
EXCAVATION - Road Earthwork		39.75	sta. @	\$140.00	per sta. =	\$5,565.00	
						<u>TOTAL EXCAVATION</u>	\$5,565.00
 CULVERTS - MATERIALS & INSTALLATION							
	<u>Culverts</u>						
	100	LF of 18"		\$1,700.00		40	LF of 24" \$960.00
	0	LF of 30"		\$0.00		0	LF of 36" \$0.00
	0	LF of 42"		\$0.00		0	LF of 48" \$0.00
	0	LF of 54"		\$0.00		0	LF of 60" \$0.00
	0	LF of 66"		\$0.00		0	LF of 72" \$0.00
				<u>\$1,700.00</u>			<u>\$960.00</u>
	<u>Half Rounds</u>						
	0	LF of 21"		\$0.00		0	LF of 30" \$0.00
	0	LF of 36"		\$0.00		0	LF of 42" \$0.00
				<u>\$0.00</u>			<u>\$0.00</u>
	<u>Culvert Stakes & Markers</u>						
	0	stakes		\$0.00			
	4	markers		\$32.00			
				<u>\$32.00</u>			
						TOTAL CULVERTS	\$2,692.00
ROCK							
0+00 to	39+75	2,876	cy. of	Pit-Run	@	\$10.53 per c.y. =	\$30,284.28
JCT Rock	0+00	50	cy. of	Pit-Run	@	\$10.53 per c.y. =	\$526.50
						<u>TOTAL ROCK</u>	\$30,810.78
 SPECIAL PROJECTS							
Construct waste areas -		2.00	hours @	\$130.00	per hour	\$260.00	
Construct ditchouts -		5.00	@	\$60.00	each	\$300.00	
Grade and shape road -		39.75	stations @	\$15.50	per station	\$616.13	
Roll subgrade w/ vibratory roller prior to rocking -		39.75	stations @	\$13.20	per station	\$524.70	
Remove large stumps -		5.00	lump sum @	\$130.00		\$650.00	
Grass seed and fertilize -		0.91	acres @	\$220.00	per acre	\$212.48	
Mulching -		0.913	acres @	\$600.00	per acre	\$550.48	
						<u>TOTAL SPECIAL PROJECTS</u>	\$3,113.79
						GRAND TOTAL	\$43,435.97

SUMMARY OF CONSTRUCTION COST

Sale:	Blue Potato	Road:	E to F														
Construction -	<table border="0" style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: right;">0+00</td> <td style="text-align: left;">stations</td> </tr> <tr> <td style="text-align: right; border-top: 1px solid black;">0.00</td> <td style="text-align: left; border-top: 1px solid black;">miles</td> </tr> </table>	0+00	stations	0.00	miles	Improvement -	<table border="0" style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: right;">3+00</td> <td style="text-align: left;">stations</td> </tr> <tr> <td style="text-align: right; border-top: 1px solid black;">0.06</td> <td style="text-align: left; border-top: 1px solid black;">miles</td> </tr> </table>	3+00	stations	0.06	miles						
0+00	stations																
0.00	miles																
3+00	stations																
0.06	miles																
CLEARING AND GRUBBING - Scattering	0.040 acres @	\$980.00 per acre =	\$39.20														
		TOTAL CLEARING AND GRUBBING	\$39.20														
EXCAVATION - Road Earthwork	3.00 sta. @	\$100.00 per sta. =	\$300.00														
		TOTAL EXCAVATION	\$300.00														
ROCK 0+00 to JCT Rock	<table border="0" style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: right;">3+00</td> <td style="text-align: left;">259 cy. of</td> <td style="text-align: left;">Pit-Run</td> <td style="text-align: left;">@</td> </tr> <tr> <td style="text-align: right;">0+00</td> <td style="text-align: left;">50 cy. of</td> <td style="text-align: left;">Pit-Run</td> <td style="text-align: left;">@</td> </tr> </table>	3+00	259 cy. of	Pit-Run	@	0+00	50 cy. of	Pit-Run	@	<table border="0" style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: right;">\$9.89 per c.y. =</td> <td style="text-align: right;">\$2,561.51</td> </tr> <tr> <td style="text-align: right;">\$9.89 per c.y. =</td> <td style="text-align: right; border-top: 1px solid black;">\$494.50</td> </tr> <tr> <td></td> <td style="text-align: right;">TOTAL ROCK</td> </tr> </table>	\$9.89 per c.y. =	\$2,561.51	\$9.89 per c.y. =	\$494.50		TOTAL ROCK	\$3,056.01
3+00	259 cy. of	Pit-Run	@														
0+00	50 cy. of	Pit-Run	@														
\$9.89 per c.y. =	\$2,561.51																
\$9.89 per c.y. =	\$494.50																
	TOTAL ROCK																
SPECIAL PROJECTS																	
Grade and shape road -	3.00 stations @	\$15.50 per station	\$46.50														
Roll subgrade w/ vibratory roller prior to rocking -	3.00 stations @	\$13.20 per station	\$39.60														
Grass seed and fertilize -	0.07 acres @	\$220.00 per acre	\$15.40														
Mulching -	0.069 acres @	\$600.00 per acre	\$41.40														
		TOTAL SPECIAL PROJECTS	\$142.90														
GRAND TOTAL			\$3,538.11														

SUMMARY OF CONSTRUCTION COST

Sale:	<u>Blue Potato</u>					Road:	<u>G to H</u>
Construction -	<u>0+00</u> stations <u>0.00</u> miles					Improvement -	<u>5+00</u> stations <u>0.09</u> miles
CLEARING AND GRUBBING - Scattering		0.050 acres @		\$980.00 per acre =			<u>\$49.00</u>
						TOTAL CLEARING AND GRUBBING	\$49.00
EXCAVATION - Road Earthwork		5.00 sta. @		\$90.00 per sta. =			<u>\$450.00</u>
						TOTAL EXCAVATION	\$450.00
ROCK							
0+00 to	5+00	393 cy. of	Pit-Run	@	\$9.35 per c.y. =		\$3,674.55
JCT Rock	0+00	50 cy. of	Pit-Run	@	\$9.35 per c.y. =		\$467.50
Landing Rock	5+00	100 cy. of	Pit-Run	@	\$9.35 per c.y. =		<u>\$935.00</u>
						TOTAL ROCK	\$5,077.05
SPECIAL PROJECTS							
Grade and shape road -		5.00 stations @		\$15.50 per station			\$77.50
Roll subgrade w/ vibratory roller prior to rocking -		5.00 stations @		\$13.20 per station			\$66.00
Grass seed and fertilize -		0.11 acres @		\$220.00 per acre			\$24.20
Mulching -		0.115 acres @		\$600.00 per acre			\$69.00
						TOTAL SPECIAL PROJECTS	\$236.70
GRAND TOTAL							\$5,812.75

SUMMARY OF CONSTRUCTION COST

Sale:	Blue Potato				Road:	I to J			
Construction -	0+00	stations			Improvement -	1+00	stations		
	0.00	miles				0.02	miles		
CLEARING AND GRUBBING - Scattering			0.010	acres @	\$980.00	per acre =	\$9.80		
							TOTAL CLEARING AND GRUBBING	\$9.80	
EXCAVATION - Road Earthwork			1.00	sta. @	\$90.00	per sta. =	\$90.00		
							TOTAL EXCAVATION	\$90.00	
ENDHAUL - Remove large berm Spread & compact	0+50	to	1+00		700	cy. @	\$3.00	per c.y. =	\$2,100.00
					700	cy. @	\$0.25	per c.y. =	\$175.00
							TOTAL ENDHAUL	\$2,275.00	
ROCK 0+00 to Heli Port	1+00		124	cy. of	Pit-Run	@	\$9.47	per c.y. =	\$1,174.28
	0+50		200	cy. of	Pit-Run	@	\$9.47	per c.y. =	\$1,894.00
							TOTAL ROCK	\$3,068.28	
SPECIAL PROJECTS									
Construct waste areas -			4.00	hours @	\$130.00	per hour	\$520.00		
Grade and shape			1.00	stations @	\$140.00	per station	\$140.00		
Roll subgrade w/ vibratory roller prior to rocking -			1.00	stations @	\$85.00	per station	\$85.00		
Grass seed and fertilize -			0.10	acres @	\$220.00	per acre	\$22.00		
Mulching -			0.200	acres @	\$600.00	per acre	\$120.00		
							TOTAL SPECIAL PROJECTS	\$887.00	
GRAND TOTAL								\$6,330.08	

SUMMARY OF CONSTRUCTION COST

Sale:	<u>Blue Potato</u>		Road:	<u>K to L</u>								
Construction -	<table style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: right;">0+00</td> <td style="text-align: left;">stations</td> </tr> <tr> <td style="text-align: right;"><u>0.00</u></td> <td style="text-align: left;">miles</td> </tr> </table>	0+00	stations	<u>0.00</u>	miles		Improvement -	<table style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: right;">69+00</td> <td style="text-align: left;">stations</td> </tr> <tr> <td style="text-align: right;"><u>1.31</u></td> <td style="text-align: left;">miles</td> </tr> </table>	69+00	stations	<u>1.31</u>	miles
0+00	stations											
<u>0.00</u>	miles											
69+00	stations											
<u>1.31</u>	miles											
ROCK												
0+00 to 69+00	1,499 cy. of	Crushed	@	\$7.05 per c.y. =								
				<u>\$10,567.95</u>								
				TOTAL ROCK								
				\$10,567.95								
SPECIAL PROJECTS												
Construct waste areas -	6.00	hours @	\$130.00	per hour								
				\$780.00								
Grade and shape road -	69.00	stations @	\$15.50	per station								
				\$1,069.50								
Pull ditch & endhaul waste material	69.00	stations @	\$100.00	per station								
				\$6,900.00								
Roll subgrade w/ vibratory roller prior to rocking -	69.00	stations @	\$13.20	per station								
				\$910.80								
Grass seed and fertilize -	1.58	acres @	\$220.00	per acre								
				\$347.60								
Mulching -	1.584	acres @	\$600.00	per acre								
				\$950.40								
				TOTAL SPECIAL PROJECTS								
				\$10,958.30								
				 GRAND TOTAL								
				\$21,526.25								

ROCK DEVELOPMENT COST SUMMARY

Pit:	Pit Run	Location:	Sec.19 , T1N, R7W, W.M.
Sale:	Blue Potato	Road:	5723 c.y.
Swell:	1.40	Stockpile:	c.y.
Shrinkage	1.16	Total Truck Loads:	5723 c.y.
Drill Pct.:	50%	In Place Total:	4088 c.y.

Pit Development & Cleanup including Clearing and grubbing of Waste Area @ adjacent to pit, place overburden in Waste Area, spread and compact.	\$9,321.61
Drill & Shoot:	\$2.50 /cu.yd. x 2044 cu.yds. = \$5,110.00
Rip Rock	\$1.90 /cu.yd. x 2044 cu.yds. = \$3,883.60
Load Dump Truck:	\$0.70 /cu.yd. x 5723 cu.yds. = \$4,006.10

Subtotal \$22,321.31

Move In and set up Drill and Compressor	1	@	\$279.96	=	\$279.96
Move in Roller and Compactor	0	@	\$279.96	=	\$0.00
Move in Grader	0	@	\$111.93	=	\$0.00
Move in D-8	1	@	\$476.96	=	\$476.96
Move in Loader	0	@	\$361.77	=	\$0.00
Move in Excavator	1	@	\$524.07	=	\$524.07
Move in Trucks	4	@	\$84.87	=	\$339.48
Move in Water Truck	1	@	\$99.76	=	\$99.76

Subtotal \$1,720.23

TOTAL PRODUCTION COSTS \$24,041.54

Base Cost= \$4.20 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	\$5.75	\$1.70	\$4.20	\$11.65	1581	\$18,418.65
A to B JCT Rock	\$5.75	\$1.70	\$4.20	\$11.65	40	\$466.00
C to D	\$4.63	\$1.70	\$4.20	\$10.53	2876	\$30,284.28
C to D JCT Rock	\$4.63	\$1.70	\$4.20	\$10.53	50	\$526.50
E to F	\$3.99	\$1.70	\$4.20	\$9.89	259	\$2,561.51
E to F	\$0.93	\$1.70	\$4.20	\$6.83	0	\$0.00
E to F JCT Rock	\$3.99	\$1.70	\$4.20	\$9.89	50	\$494.50
G to H	\$3.45	\$1.70	\$4.20	\$9.35	393	\$3,674.55
G to H JCT Rock	\$3.45	\$1.70	\$4.20	\$9.35	50	\$467.50
G to H Landing Rock	\$3.45	\$1.70	\$4.20	\$9.35	100	\$935.00
I to J	\$3.57	\$1.70	\$4.20	\$9.47	124	\$1,174.28
I to J Heli Port	\$3.57	\$1.70	\$4.20	\$9.47	200	\$1,894.00
					Total C.Y. 5723	Sub Total \$60,896.77

	TOTAL ROCKING COSTS	\$60,896.77
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Stock Pile Rock for K to L

Pit:	Muesial Stock Pile	Location:	Sec.25 , T1N, R8W, W.M.
Sale:	Blue Potato	Road:	1499 c.y.
Swell:	1.40	Stockpile:	c.y.
Shrinkage	1.16	Total Truck Loads:	1499 c.y.
Drill Pct.:	0%	In Place Total:	c.y.

Load Rock: \$0.60 /cu.yd. x 1499 cu.yds. = \$899.40

Subtotal \$899.40

Move in Loader	1	@	\$361.77	=	\$361.77
Move in Trucks	4	@	\$84.87	=	\$339.48
Move in Water Truck	1	@	\$99.76	=	\$99.76
				Subtotal	\$801.01

TOTAL PRODUCTION COSTS \$1,700.41

Base Cost= \$1.13 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
K to L	3.47	2.45	1.13	7.05	1499	10,567.95
				Total C.Y.	1499	Sub Total 10,567.95

TOTAL ROCKING COSTS 10,567.95

Move-In Calculations

Sale: **Blue Potato**

LOWBOY HAUL (Round Trip)		
DIST. (mi)	ROADWAY	AVE SPEED (mph)
22.0	Pavement	45
4.0	Main Lines	7
3.0	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	Graders	\$364.43		\$3.65	0.00	0.00	0	\$0.00	\$364.43
1	Rollers (smooth/grid) & Compactors	\$279.96		\$5.00	0.00	0.00	0	\$0.00	\$279.96
1	Excavators (Large)	\$535.32	1	\$44.80	0.00	0.00	0	\$0.00	\$535.32
1	Tractors (D7)	\$467.06	2	\$11.30	0.00	0.00	0	\$0.00	\$467.06
4	Dump Truck (10 cy +)	\$416.89		\$2.85	0.00	0.00	0	\$0.00	\$416.89
1	Water Truck (1500 Gal)	\$84.87		\$2.85	0.00	0.00	0	\$0.00	\$84.87
TOTAL MOVE-IN COSTS:								\$2,148.53	



CRUISE REPORT

Blue Potato

1. **Type of Sale:** Modified Clear-Cut, and Partial Cut – Thin Conifer, remove Alder–recovery.
2. **Legal Description:** Portions of Sections 10, 11, 13, 14, and 15, T1S, R8W, 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	Modified Clear-Cut	93	89
2	Modified Clear-Cut	69	69
3	Modified Clear-Cut	103	93
4	Partial Cut	45	45
Total		310	296

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 80 various radial plots were taken. Cruise lines and plots were placed to obtain representative sampling intensities throughout the four sale areas on an east/west 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 40 was used for conifers and a basal area of 20 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 7" 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. 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.

D. **Cruiser Names / Dates:** Sale Prep. Staff, November 2006

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.

The statistics for the *entire timber sale* were 74% coefficient of variation and 8% standard error net board feet/acre for the total sale area. Area 1: 61% and 11%, Area 2: 87% and 21%, Area 3: 57% and 12%, Area 4: 81% and 25%.

6. **Timber Description:** The sale contains 40 year old Hemlock, Douglas-fir, Spruce, and Alder. Portions of the stand are natural regeneration with areas of planted Douglas-fir after the Burn and scarification. Red alder is a large component throughout the sale.

7. **Revenue Distribution:**

100% FDF

Tax Code: 76% in 9-1: Net Conifer MBF = 847 MBF

24% in 9-2: Net Conifer MBF = 277 MBF

Deed No. 169, 194

8. **Appendices:**

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

Stand Table Summary

Project BLUPOTAT

TO1N RO1W S01 T001

TO1N RO1W S01 T001

Twp Rge Sec Tract
O1N O1W 01 AREA 1

Type Acres Plots Sample Trees
001 89.00 28 136

Page: 1
Date: 03/29/201
Time: 9:20:19AM

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
DF		8	3	83	44	11.409	4.29	11.41	5.5	23.3	1.79	63	265	159	56	24
DF		9	2	84	44	6.397	2.86	6.40	6.2	24.9	1.13	40	160	100	35	14
DF		10	5	84	54	12.805	7.14	15.27	8.5	34.9	3.71	131	533	330	116	47
DF		11	6	85	53	13.289	8.57	15.45	10.3	35.4	4.55	160	547	405	142	49
DF		12	7	83	58	12.470	10.00	15.99	12.3	41.1	5.61	197	658	499	175	59
DF		13	4	85	66	6.303	5.71	10.93	11.9	42.7	3.70	130	467	329	115	42
DF		14	3	85	79	3.972	4.29	6.64	18.5	69.7	3.50	123	463	311	109	41
DF		16	1	85	48	1.076	1.43	1.08	25.9	40.0	.79	28	43	71	25	4
DF		17	1	84	71	.906	1.43	1.81	19.5	70.0	1.00	35	127	89	31	11
DF		18	1	84	103	.827	1.43	1.65	30.3	110.0	1.43	50	182	127	45	16
DF		20	2	84	90	1.297	2.86	2.59	36.2	124.8	2.68	94	324	238	84	29
DF		21	1	86	106	.623	1.43	1.25	42.2	150.0	1.50	53	187	133	47	17
DF	Totals		36	84	56	71.374	51.43	90.48	12.2	43.7	31.37	1,101	3,955	2,792	980	352
RA		10	5	81	48	6.497	3.57	6.50	5.7	20.0	1.01	37	130	90	33	12
RA		11	5	80	68	5.321	3.57	5.32	12.9	47.6	1.88	69	253	167	61	23
RA		12	6	79	60	5.499	4.29	5.50	15.4	48.5	2.33	85	267	208	75	24
RA		13	9	79	69	7.194	6.43	7.19	20.7	65.4	4.09	149	471	364	132	42
RA		14	7	80	75	4.691	5.00	6.69	18.9	64.1	3.49	126	428	310	112	38
RA		15	5	80	73	2.904	3.57	3.47	28.7	86.7	2.74	100	301	244	89	27
RA		16	7	79	53	3.584	5.00	3.58	30.6	73.9	3.02	110	265	269	98	24
RA		17	3	80	69	1.349	2.14	1.80	32.9	82.6	1.64	59	149	146	53	13
RA		18	2	80	57	.813	1.43	.81	43.7	85.0	.98	35	69	87	32	6
RA		19	2	79	63	.703	1.43	1.05	35.4	86.5	1.02	37	91	91	33	8
RA		20	3	79	50	.999	2.14	1.00	46.6	89.0	1.28	47	89	114	41	8
RA		21	1	80	86	.297	.71	.59	39.9	120.0	.65	24	71	58	21	6
RA		22	1	80	71	.271	.71	.54	36.8	115.0	.55	20	62	49	18	6
RA		23	3	80	66	.732	2.14	1.22	50.3	110.2	1.69	61	135	150	55	12
RA		27	1	79	71	.180	.71	.36	61.7	195.0	.61	22	70	54	20	6
RA	Totals		60	80	63	41.033	42.86	45.63	21.5	62.5	26.96	980	2,851	2,400	873	254
SL		22	1	82	76	.541	1.43	1.08	41.4	100.0	1.17	45	108	104	40	10
SL		23	1	85	78	.495	1.43	.99	46.8	160.0	1.21	46	158	107	41	14
SL		26	2	84	78	.772	2.86	1.54	60.3	197.5	2.42	93	305	215	83	27
SL		30	2	85	74	.582	2.86	1.16	77.0	245.0	2.33	90	285	207	80	25
SL		32	2	85	70	.505	2.86	1.01	87.2	262.2	2.29	88	265	204	78	24
SL		35	1	84	61	.214	1.43	.43	86.4	320.0	.96	37	137	85	33	12
SL		40	1	84	90	.160	1.43	.32	166.3	600.0	1.39	53	193	124	48	17
SL		50	1	84	74	.105	1.43	.21	220.8	775.0	1.20	46	162	107	41	14
SL		54	1	86	87	.090	1.43	.18	300.6	1125.0	1.40	54	202	125	48	18
SL		56	1	86	96	.084	1.43	.25	230.2	1083.3	1.50	58	271	133	51	24
SL	Totals		13	84	76	3.548	18.57	7.18	85.0	290.7	15.88	610	2,087	1,413	543	186
DL		24	1	85	86	.447	1.43	.89	52.4	200.0	1.29	47	179	115	42	16
DL		26	1	86	101	.387	1.43	.77	68.3	265.0	1.46	53	205	130	47	18
DL		27	1	85	96	.359	1.43	.72	72.4	270.0	1.43	52	194	127	46	17
DL		28	1	87	108	.346	1.43	.69	79.5	325.0	1.51	55	225	135	49	20
DL		29	1	84	104	.311	1.43	.62	85.6	325.0	1.47	53	202	131	47	18
DL		33	2	85	98	.481	2.86	.96	106.8	450.0	2.83	103	433	252	91	39
DL		35	1	84	105	.214	1.43	.43	126.2	510.0	1.48	54	218	132	48	19
DL		36	1	86	98	.202	1.43	.40	128.5	555.0	1.43	52	224	127	46	20
DL	Totals		9	85	99	2.749	12.86	5.50	85.3	342.2	12.89	469	1,881	1,148	417	167

Stand Table Summary

Project **BLUPOTAT**

TO1N RO1W S01 T001

TO1N RO1W S01 T001

Twp Rge Sec Tract
O1N O1W 01 AREA 1

Type Acres Plots Sample Trees
001 89.00 28 136

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Date: 03/29/2001
Time: 9:20:19AM

Spc	S T	Sample			Av Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Cu.Ft. Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals				
		DBH	Trees	16'					Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF		
WL		26	1	84	99	.387	1.43	.77	71.1	265.0	1.76	55	205	157	49	18		
WL		29	1	88	108	.311	1.43	.93	64.9	303.3	1.94	61	283	173	54	25		
WL		36	1	88	111	.202	1.43	.61	102.0	526.7	1.98	62	319	176	55	28		
WL		37	2	88	92	.380	2.86	.76	141.8	604.8	3.45	108	459	307	96	41		
WL		39	1	85	90	.172	1.43	.34	157.4	605.0	1.73	54	208	154	48	19		
WL		Totals			6	87	100	1.453	8.57	3.42	99.3	431.6	10.86	339	1,476	967	302	131
SS		9	1	85	44	3.163	1.43	3.16	6.7	30.0	.55	21	95	49	19	8		
SS		13	2	82	45	3.127	2.86	3.13	17.0	39.6	1.38	53	124	123	47	11		
SS		14	2	85	32	2.692	2.86	2.69	17.2	55.0	1.20	46	148	107	41	13		
SS		16	1	84	51	1.063	1.43	1.06	24.2	70.0	.67	26	74	60	23	7		
SS		19	1	87	75	.696	1.43											
SS		20	1	72	33	.655	1.43	.65	35.1	30.0	.60	23	20	53	20	2		
SS		21	1	81	37	.594	1.43	.59	38.3	100.0	.59	23	59	53	20	5		
SS		Totals			9	83	43	11.989	12.86	11.29	17.0	46.1	4.99	192	520	444	171	46
WH		13	1	84	63	1.676	1.43	1.68	19.6	60.0	1.05	33	101	94	29	9		
WH		Totals			1	84	63	1.676	1.43	1.68	19.6	60.0	1.05	33	101	94	29	9
BM		10	2	80	47	2.815	1.43											
BM		Totals			2	80	47	2.815	1.43									
Totals		136	83	59		136.637	150.00	165.18	22.6	77.9	104.01	3725	12,870	9,257	3,315	1,145		

Stand Table Summary																
TC TSTNDSUM																
Project BLUPOTAT																
T01N R01W S02 T0002										T01N R01W S02 T0002						
Twp Rge Sec Tract				Type		Acres		Plots		Sample Trees			Page: 1			
01N 01W 02 AREA 2				0002		69.00		18		110			Date: 03/29/201			
Time: 9:20:19AM																
Spc	S T	Sample		Av	Trees/	BA/	Logs	Average Log		Tons/	Net	Net	Totals			
		DBH	Trees	FF				Ht	16'				Tot	Acres	Acres	Acres
RA		10	4	80	35	8.149	4.44	8.15	5.5	20.0	1.23	45	163	85	31	11
RA		11	3	80	61	5.051	3.33	5.05	10.9	40.0	1.52	55	202	105	38	14
RA		12	7	79	65	9.903	7.78	9.90	15.6	54.3	4.26	155	538	294	107	37
RA		13	9	80	58	10.849	10.00	12.05	16.6	53.0	5.52	200	639	381	138	44
RA		14	11	79	77	11.433	12.22	15.59	20.4	66.0	8.73	317	1,029	602	219	71
RA		15	7	79	88	6.338	7.78	10.86	22.0	78.3	6.59	240	851	454	165	59
RA		16	11	80	71	8.754	12.22	11.94	27.3	82.7	8.96	326	987	619	225	68
RA		17	10	80	79	7.049	11.11	11.98	27.3	94.1	8.98	327	1,128	620	225	78
RA		18	8	80	76	5.030	8.89	7.55	33.3	109.2	6.90	251	824	476	173	57
RA		19	1	80	97	.564	1.11	1.13	37.0	125.0	1.15	42	141	79	29	10
RA		20	4	80	55	2.037	4.44	2.04	53.3	102.5	2.99	109	209	206	75	14
RA		21	6	80	78	2.772	6.67	5.08	40.6	134.5	5.67	206	684	392	142	47
RA		23	1	80	65	.385	1.11	.77	40.1	130.0	.85	31	100	59	21	7
RA		24	1	79	68	.354	1.11	.71	45.4	160.0	.88	32	113	61	22	8
RA		26	1	80	80	.301	1.11	.60	61.1	200.0	1.01	37	121	70	25	8
RA	Totals		84	80	67	78.969	93.33	103.41	22.9	74.7	65.24	2,372	7,727	4,502	1,637	533
DL		22	1	84	111	.842	2.22	2.53	34.5	133.3	2.40	87	337	165	60	23
DL		23	4	87	107	3.081	8.89	6.93	49.7	205.6	9.47	344	1,425	654	238	98
DL		25	1	87	108	.652	2.22	1.30	67.4	290.0	2.42	88	378	167	61	26
DL		26	2	87	115	1.205	4.44	3.01	57.9	248.0	4.80	175	747	331	120	52
DL		27	2	86	109	1.118	4.44	2.79	61.2	258.0	4.71	171	721	325	118	50
DL		28	2	86	111	1.039	4.44	2.60	67.9	286.0	4.85	176	743	335	122	51
DL	Totals		12	86	109	7.937	26.67	19.17	54.3	227.0	28.65	1,042	4,351	1,977	719	300
DF		10	1	89	53	4.074	2.22	4.07	10.1	40.0	1.17	41	163	81	28	11
DF		15	1	88	86	1.811	2.22	3.62	18.6	75.0	1.92	67	272	132	46	19
DF		16	2	88	95	3.183	4.44	6.37	22.6	92.5	4.11	144	589	284	99	41
DF		17	1	90	95	1.410	2.22	2.82	27.3	110.0	2.20	77	310	152	53	21
DF		18	1	88	95	1.258	2.22	2.52	29.3	110.0	2.10	74	277	145	51	19
DF		19	2	87	93	2.257	4.44	4.51	33.5	120.0	4.31	151	542	297	104	37
DF		20	2	87	89	2.037	4.44	4.07	35.0	122.5	4.06	143	499	280	98	34
DF	Totals		10	88	82	16.030	22.22	27.99	24.9	94.7	19.87	697	2,651	1,371	481	183
SS		10	1	84	41	4.074	2.22	4.07	8.9	30.0	.94	36	122	65	25	8
SS		15	2	78	49	3.622	4.44	3.62	16.0	55.0	1.50	58	199	104	40	14
SS	Totals		3	81	45	7.696	6.67	7.70	12.2	41.8	2.44	94	321	168	65	22
BM		15	1	80	67	.905	1.11									
BM	Totals		1	80	67	.905	1.11									
Totals			110	81	71	111.537	150.00	158.25	26.6	95.1	116.20	4205	15,051	8,018	2,901	1,039

TC TSTNDSUM		Stand Table Summary													
Project											BLUPOTAT				
T01N R01W S03 T0003											T01N R01W S03 T0003				
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page:	2		Date:	03/29/201	Time:	9:20:19AM	
01N	01W	03	AREA 3	0003	93.00	23	160								
S Spc	T	Sample DBH	FF Trees	Av Ht 16' Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Cu.Ft. Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals		
								Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF
SL	Totals	5	79	57	1.927	8.70	2.43	64.6	173.9	4.09	157	423	380	146	39
SS	14	1	85	19	1.627	1.74	1.63	12.1	40.0	.51	20	65	48	18	6
SS	16	1	80	22	1.246	1.74									
SS	20	1	85	40	.797	1.74	.80	32.5	140.0	.67	26	112	63	24	10
SS	Totals	3	83	25	3.670	5.22	2.42	18.8	72.9	1.18	46	177	110	42	16
Totals		160	81	53	160.699	204.35	186.47	24.3	76.0	127.58	4532	14,166	11,865	4,215	1,317

TC TSTNDSUM		Stand Table Summary														
Project													BLUPOTAT			
T01N R07W S04 T0004										T01N R07W S04 T0004						
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page: 1			Date: 03/29/201					
01N	07W	04	AREA 4	0004	45.00	11	56	Time: 9:20:19AM								
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
WL		17	2	85	97	6.130	9.95	12.26	29.0	109.9	11.37	355	1,347	512	160	61
WL		18	1	88	92	2.599	4.70	5.20	32.9	120.0	5.47	171	624	246	77	28
WL		22	1	86	91	1.863	4.92	3.73	47.5	170.0	5.67	177	633	255	80	28
WL		24	1	84	105	1.563	5.03	3.13	65.5	245.0	6.55	205	766	295	92	34
WL		26	1	88	97	1.324	4.70	2.65	67.6	260.0	5.73	179	688	258	81	31
WL		28	1	84	99	1.177	5.03	2.35	81.6	310.0	6.15	192	730	277	86	33
WL		30	1	86	98	1.015	4.92	2.03	96.2	395.0	6.25	195	802	281	88	36
WL		36	1	85	97	.712	5.03	1.42	136.8	295.0	6.23	195	420	281	88	19
WL	Totals		9	86	96	16.383	44.27	32.77	50.9	183.4	53.42	1,669	6,010	2,404	751	270
SL		16	1	79	70	3.972	5.83	7.94	19.9	70.0	4.12	158	556	185	71	25
SL		17	2	82	40	6.947	10.69	6.95	27.7	45.5	5.00	192	316	225	86	14
SL		18	2	80	77	6.154	11.23	12.31	27.9	91.9	8.92	343	1,131	402	154	51
SL		21	1	81	68	2.304	5.54	4.61	34.4	65.0	4.12	158	300	185	71	13
SL		22	1	82	60	1.946	5.28	5.84	22.0	43.3	3.36	128	253	151	58	11
SL		24	1	81	53	1.795	5.41	5.39	22.0	43.3	3.04	119	233	137	53	11
SL		27	1	81	77	1.370	5.41	2.74	63.5	175.0	4.53	174	480	204	78	22
SL		28	2	79	100	2.691	11.51	5.38	83.3	265.0	11.66	448	1,426	525	202	64
SL		32	1	80	100	1.017	5.68	2.03	110.2	395.0	5.83	224	804	262	101	36
SL	Totals		12	81	67	28.198	66.57	53.19	36.6	103.4	50.57	1,946	5,499	2,276	876	247
WH		13	2	85	72	10.473	9.95	15.57	17.3	60.2	8.64	270	937	389	121	42
WH		14	2	85	79	9.324	9.95	18.65	14.8	54.8	8.79	276	1,021	396	124	46
WH		15	2	85	79	8.001	9.95	16.00	18.4	72.5	9.40	294	1,160	423	132	52
WH	Totals		6	85	76	27.798	29.85	50.22	16.7	62.1	26.83	839	3,119	1,207	378	140
RA		11	1	80	23	4.079	2.84									
RA		13	1	80	30	2.989	2.84	2.99	12.7	40.0	1.04	38	120	47	17	5
RA		14	2	80	35	5.355	5.68	5.36	15.9	40.0	2.35	85	214	106	38	10
RA		15	2	80	36	4.698	5.68	4.70	18.7	44.8	2.41	88	210	109	40	9
RA		16	1	79	29	1.985	2.84									
RA		17	3	79	40	5.367	8.52	3.63	30.4	59.8	3.02	110	217	136	50	10
RA		18	5	80	44	7.933	14.20	9.51	28.0	68.2	7.33	266	648	330	120	29
RA		19	5	80	42	7.215	14.20	7.23	30.7	63.9	6.09	222	462	274	100	21
RA		20	1	80	53	1.277	2.84	1.28	55.1	90.0	1.93	70	115	87	32	5
RA		21	2	80	51	2.318	5.68	2.32	52.8	114.4	3.37	122	265	152	55	12
RA		22	1	80	40	1.076	2.84	1.08	48.0	60.0	1.42	52	65	64	23	3
RA	Totals		24	80	38	44.292	68.18	38.08	27.7	60.8	28.97	1,054	2,316	1,303	474	104
SS		12	1	82	45	6.397	5.28	6.40	14.2	40.0	2.37	91	256	107	41	12
SS		14	1	80	26	5.166	5.68	5.17	13.3	30.0	1.78	69	155	80	31	7
SS		16	2	79	44	8.636	11.38	8.64	24.0	34.2	5.43	207	295	245	93	13
SS	Totals		4	80	40	20.199	22.35	20.20	18.1	34.9	9.59	367	706	431	165	32
RC		18	1	84	47	2.945	5.03									
RC	Totals		1	84	47	2.945	5.03									
Totals			56	82	59	139.815	236.26	194.45	30.2	90.8	169.37	5874	17,649	7,622	2,643	794



"STEWARDSHIP IN FORESTRY"

Blue Potato

Volume Summary

Area 1 Modified Clearcut							
89 acres							
SPECIES	QMD	Basal Area Per Acre	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	12	51.43	77	4.0	356	5%	338
Spruce	14	12.86	41	0.5	45	5%	43
Alder	14	42.86	67	2.9	258	10%	232
TOTAL					659		613

Area 2 Modified Clearcut							
69 acres							
SPECIES	QMD	Basal Area Per Acre	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	16	22.22	119	2.6	179	5%	170
Spruce	13	6.67	48	0.3	21	5%	20
Alder	15	93.33	83	7.7	531	10%	478
TOTAL					731		668

Area 3 Modified Clearcut							
93 acres							
SPECIES	QMD	Basal Area Per Acre	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	13	38.26	95	3.6	335	5%	318
Hemlock	14	5.22	98	0.5	47	5%	45
Spruce	16	5.22	34	0.2	19	5%	18
Alder	15	117.39	48	5.6	521	10%	469
TOTAL					922		850

Area 4 Partial Cut							
45 acres							
SPECIES	QMD	Basal Area Per Acre	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Hemlock	14	29.85	105	3.1	140	5%	133
Spruce	14	22.35	32	0.7	32	5%	30
Alder	17	68.18	34	2.3	104	10%	94
TOTAL					276		257



"STEWARDSHIP IN FORESTRY"

Blue Potato

Volume Summary

TOTAL SALE VOLUME		296 acres
SPECIES	Gross (MBF)	Net Vol (MBF)
Douglas-fir	870	826
Hemlock	187	178
Spruce	117	111
Alder	1414	1273
TOTAL	2588	2388

Log Stock Table - MBF

T01N R01W S02 Ty0002
THRU
T01N R01W S01 Ty001

Project: **BLUPOTAT**
Acres **296.00**

Page **1**
Date **3/22/2007**
Time **11:26:03AM**

Spp	S T	So Gr rt de	Log Len	Gross MBF	Def %	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches											
								2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
RA		DO 2M	33	8		8	.5						8						
RA		DO 3M	20	4		4	.3				4								
RA		DO 3M	24	6		6	.4					6							
RA		DO 3M	27	5		5	.4					5							
RA		DO 3M	32	25		25	1.7				13		12						
RA		DO 3M	35	5		5	.4				5								
RA		DO 3M	40	28		28	2.0				11	17							
RA		DO 4M	12	26		26	1.9				26								
RA		DO 4M	13	10		10	.7				10								
RA		DO 4M	15	29		29	2.0				12		8	9					
RA		DO 4M	16	28		28	2.0				22		6						
RA		DO 4M	17	19	1.1	19	1.3				19								
RA		DO 4M	18	17	3.4	16	1.1				14		3						
RA		DO 4M	19	16		16	1.1				16								
RA		DO 4M	20	88	4.3	84	5.9				44	4	25	11					
RA		DO 4M	21	50	1.7	49	3.4				35	4	9						
RA		DO 4M	22	45		45	3.2				39		6						
RA		DO 4M	23	39		39	2.7				34	4							
RA		DO 4M	24	31	2.1	30	2.1				30								
RA		DO 4M	25	40		40	2.8				40								
RA		DO 4M	26	46		46	3.2				46								
RA		DO 4M	27	24		24	1.7				24								
RA		DO 4M	28	34		34	2.4				34								
RA		DO 4M	29	35		35	2.5				35								
RA		DO 4M	30	30		30	2.1				30								
RA		DO 4M	31	65		65	4.6				65								
RA		DO 4M	32	185		184	13.0				73	82	16	13					
RA		DO 4M	33	23		23	1.6				23								
RA		DO 4M	34	48	1.3	47	3.3				41	6							
RA		DO 4M	35	37	2.2	36	2.6				36								
RA		DO 4M	36	43	3.3	42	2.9				42								
RA		DO 4M	37	30	2.1	29	2.1				29								
RA		DO 4M	38	15		15	1.1				15								
RA		DO 4M	39	32	6.2	30	2.1				30								
RA		DO 4M	40	247	2.6	240	16.9				138	45	44	13					
RA		DO 4M	41	26		26	1.8				26								
RA		Totals		1,437	1.3	1,418	33.0				1061	175	129	54					

Log Stock Table - MBF

T01N R01W S02 Ty0002
THRU
T01N R01W S01 Ty001

Project: BLUPOTAT
Acres 296.00

Spp	S T	So Gr rt de	Log Len	Gross MBF	Def %	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches										
								2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39
DF		DO 4M	36	3		3	.4		3									
DF		DO 4M	37	3		3	.3		3									
DF		DO 4M	38	4		4	.4		4									
DF		DO 4M	40	114		114	13.0		43	70								
DF		DO 4M	55	15		15	1.7		15									
DF		Totals		873		873	20.3		286	143	190	146	108					
DL		DO 2M	40	594		592	84.2					28	113	292	159			
DL		DO 3M	32	14		14	2.0		2	5		7						
DL		DO 3M	33	5		5	.8			3		3						
DL		DO 3M	35	3		3	.4			3								
DL		DO 3M	37	3		3	.4					3						
DL		DO 3M	40	71		71	10.1		16	25		23	8					
DL		DO 4M	16	1		1	.2				1							
DL		DO 4M	18	1		1	.2		1									
DL		DO 4M	19	1		1	.2			1								
DL		DO 4M	20	1		1	.2			1								
DL		DO 4M	22	1		1	.1		1									
DL		DO 4M	23	2		2	.2			2								
DL		DO 4M	25	2		2	.3				2							
DL		DO 4M	27	2		2	.3		1	1								
DL		DO 4M	33	4		4	.6		4									
DL		Totals		705		703	16.4		7	23	38	29	42	113	292	159		
WH		DO 3M	40	33		33	16.9					18	15					
WH		DO 4M	17	4		4	1.8			4								
WH		DO 4M	19	9		9	4.6			9								
WH		DO 4M	22	6		6	3.1			6								
WH		DO 4M	27	14		14	7.2			14								
WH		DO 4M	28	5		5	2.7			5								
WH		DO 4M	32	102	2.2	99	50.5				56	43						
WH		DO 4M	40	26		26	13.2			26								
WH		Totals		199	1.1	197	4.6		64	56	62	15						
SL		DO 2M	40	54		54	11.4									16	37	
SL		DO 3M	32	17	36.6	11	2.2							6	4			
SL		DO 3M	40	165	2.0	161	34.2		0		24	23	12	56	46			

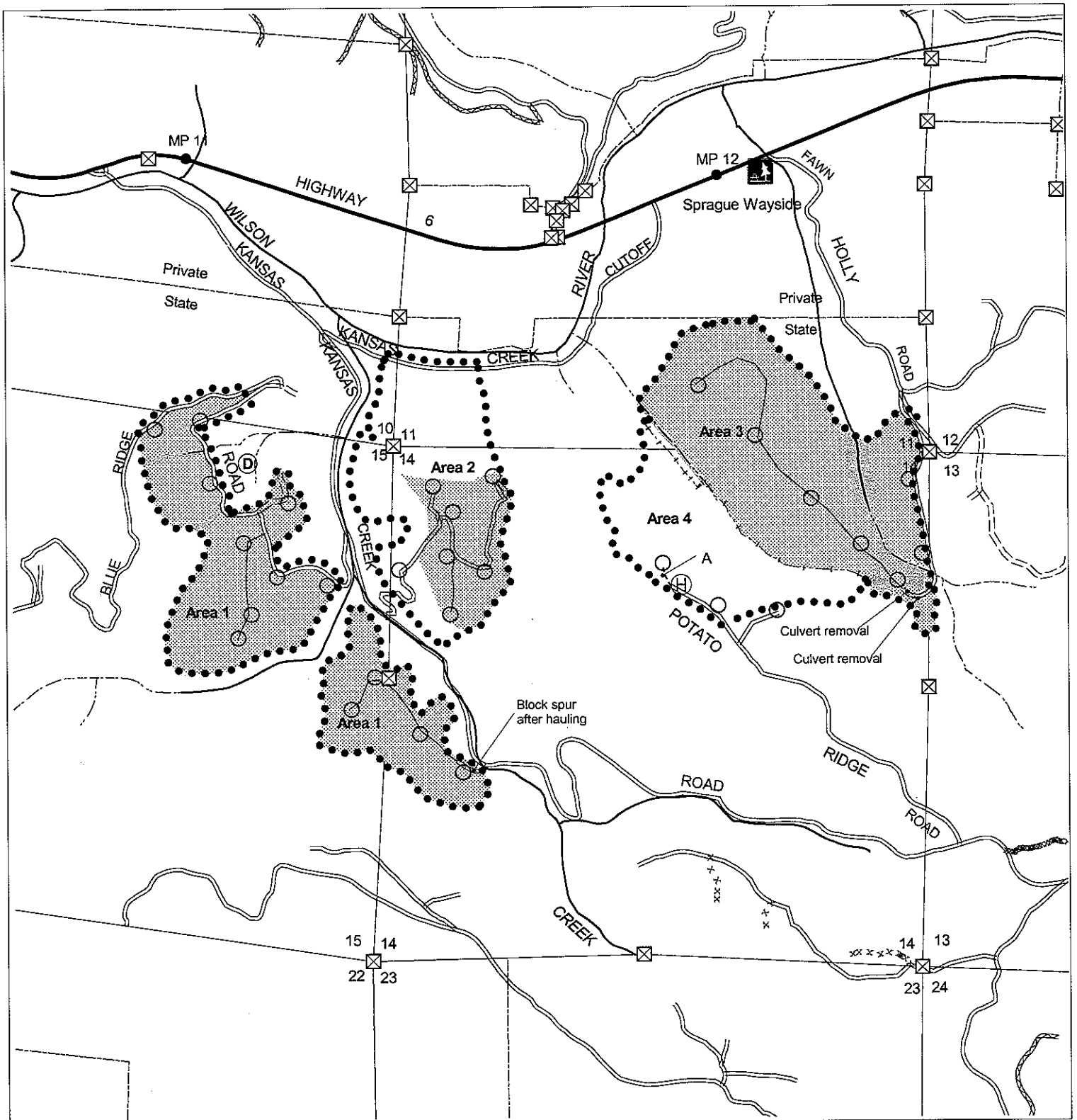
Log Stock Table - MBF

T01N R01W S02 Ty0002
THRU
T01N R01W S01 Ty001

Project: **BLUPOTAT**
Acres **296.00**

Page **4**
Date **3/22/2007**
Time **11:26:03AM**

Spp	S T	So Gr rt de	Log Len	Gross MBF	Def %	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches											
								2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
SL		DO 4M	11	2	33.3	2	.3			2									
SL		DO 4M	12	3	33.3	2	.4			2									
SL		DO 4M	15	0		0	.0			0									
SL		DO 4M	16	4		4	.8			4									
SL		DO 4M	17	3		3	.6			3									
SL		DO 4M	18	2		2	.4			1	1								
SL		DO 4M	19	2		2	.4					2							
SL		DO 4M	20	1		1	.2			1									
SL		DO 4M	21	21	39.1	13	2.7			4				9					
SL		DO 4M	22	3		3	.7			3									
SL		DO 4M	23	2		2	.4			2									
SL		DO 4M	24	25	34.7	16	3.5			7			10						
SL		DO 4M	25	5		5	1.0			5									
SL		DO 4M	28	1		1	.2		0	1									
SL		DO 4M	32	73	12.8	64	13.5					42	10			12			
SL		DO 4M	37	10		10	2.1			10									
SL		DO 4M	40	124	4.3	119	25.2			9	4			33	59		14		
SL		Totals		515	8.3	473	11.0		0	52	5	67	34	55	130	62	31	37	
WL		DO 2M	40	334		334	64.7						27		117	114	75		
WL		DO 3M	26	2		2	.4					2							
WL		DO 3M	32	32		32	6.2			3		2	5		22				
WL		DO 3M	40	130	16.1	109	21.1			17	19	4	23	24	6	15			
WL		DO 4M	15	2		2	.3				1	1							
WL		DO 4M	21	1		1	.2			1									
WL		DO 4M	28	4		4	.8			4									
WL		DO 4M	30	5		5	.9			5									
WL		DO 4M	32	19		19	3.8					19							
WL		DO 4M	33	4		4	.8			4									
WL		DO 4M	40	4		4	.7				4								
WL		Totals		536	3.9	515	12.0			33	24	29	56	24	145	129	75		
Total		All Species		4,389	2.1	4,296	100.0			305	375	1398	520	383	256	566	350	105	37



- Landing
- Ⓧ Domestic water supply intake
- Ⓜ Helicopter landing zone
- Ⓣ Truck turn-around
- ⊠ Survey corner
- ▭ 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/Federal highway
- County road
- (2)— Non-project road
- ..A.. Swing road
- Legacy road
- xxx Blocked road
- OHV trail
- Non-motorized trail
- T T Transmission line

LOGGING PLAN

Timber Sale Contract No. 341-07-78
 Blue Potato
 Portions of Sections 10, 11, 13,
 14 and 15, T1S, R8W, W. M.
 Tillamook County, Oregon

Area	Type of Operation	Acres	
		Gross	Net
1	Modified Clearcut	93	89
2	Modified Clearcut	69	69
3	Modified Clearcut	103	93
4	Partial Cut	45	45
Total		310	296



Tillamook District GIS
 March 20, 2007

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

