



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Donut Salvage
Sale 341-09-33

District: Tillamook

Date: August 05, 2008

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$315,070.72	\$0.00	\$315,070.72
		Project Work:	\$(133,690.00)
		Advertised Value:	\$181,380.72



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timber description

Location: Portions of Sections 9 and 16, T3N, R9W, W.M., Tillamook County, Oregon.

Stand Stocking: 60%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Western Hemlock / Fir	24	0	85
Sitka Spruce	28	0	85

Volume by Grade	2S	3S	4S	Total
Western Hemlock / Fir	3,315	1,530	255	5,100
Sitka Spruce	606	280	46	932
Total	3,921	1,810	301	6,032



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comments: Pond Values Used: 2nd Quarter Calendar Year 2008

Western Red Cedar Stumpage Price = Pond Value minus Logging Cost
 $\$786.08/\text{MBF} = \$1,075/\text{MBF} - \$288.92/\text{MBF}$

Douglas-fir Stumpage Price = Pond Value minus Logging Cost
 $\$186.08/\text{MBF} = \$475/\text{MBF} - \$288.92/\text{MBF}$

Red Alder Stumpage Price = Pond Value minus Logging Cost
 $\$361.08/\text{MBF} = \$650/\text{MBF} - \$288.92/\text{MBF}$

SCALING COST ALLOWANCE = \$5.00/MBF

FUEL COST ALLOWANCE = \$4.50/Gallon

HAULING COST ALLOWANCE

Hauling costs equivalent to \$700 daily truck cost.

Other Costs (with Profit & Risk to be added):

Brand and Paint: $\$2/\text{MBF} \times 6,032 \text{ MBF} = \$12,064$

TOTAL Other Costs (with Profit and Risk to be added) = \$12,064

Other Costs (No Profit & Risk to be added):

Approach rock [4 inch crushed (400yd³)] ..8 stations x 50 yds³ x
 $\$10.00 = \$4,000$

Landing rock [4 inch crushed (100yd³)] 5 landings x 35yd³
/landings x $\$10.00/\text{yd}^3 = \$1,750$

Machine time for side cast pull back and skid trail ripping and
closure... $\$145/\text{hour} \times 20 \text{ hours} = \$2,900$

Move in for machine = \$600

Dozer tail-hold = \$95

TOTAL Other Costs (No Profit & Risk added) = \$9,345

Road Maintenance: (Gods Valley Road, Rackheap Ridge Road)

Final Grading: $\$500/\text{mile} \times 3.66 \text{ miles} / 6032 = \$.30\text{MBF}$

Maintenance rock (includes Gods Valley Road, and Rackheap Ridge
Road):

$(\$5/\text{cy} \times 3.66\text{Miles} \times 20\text{cy}/\text{MMBF}/\text{Mile} \times 6.032\text{MMBF})/6032\text{MBF} = .37/\text{MBF}$

Total Road Maintenance = .67/MBF



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logging conditions

combination#: 1	Western Hemlock / Fir	100.00%	
	Sitka Spruce	100.00%	
yarding distance:	Medium (800 ft)	downhill yarding:	No
logging system:	Track Skidder	Process:	Manual Falling/Delimiting
tree size:	Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF		
loads / day:	6.5	bd. ft / load:	3,500
cost / mbf:	\$151.23		
machines:	Log Loader (B) Track Skidder		



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logging costs

Operating Seasons:	2.00	Profit Risk:	20.00%
Project Costs:	\$133,690.00	Other Costs (P/R):	\$12,064.00
Slash Disposal:	\$0.00	Other Costs:	\$9,345.00

Miles of Road

Road Maintenance: \$0.67

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	2.8
Sitka Spruce	\$0.00	2.0	3.9



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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									
\$151.23	\$0.77	\$1.45	\$79.86	\$2.00	\$47.06	\$0.00	\$5.00	\$1.55	\$288.92
Sitka Spruce									
\$151.23	\$0.77	\$1.45	\$86.01	\$2.00	\$48.29	\$0.00	\$5.00	\$1.55	\$296.30

Specie	Amortization	Pond Value	Stumpage	Amortized
Western Hemlock / Fir	\$0.00	\$337.00	\$48.08	\$0.00
Sitka Spruce	\$0.00	\$371.26	\$74.96	\$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

Unamortized

Specie	MBF	Value	Total
Western Hemlock / Fir	5,100	\$48.08	\$245,208.00
Sitka Spruce	932	\$74.96	\$69,862.72

Gross Timber Sale Value

Recovery: \$315,070.72

Prepared by: Nick Stumpf

Phone: 503-842-2545



PROJECT SUMMARY SHEET

Sale: Donut Salvage

IMPROVEMENT

Point	A to B	84+85	stations =	\$51,029.85
SUBTOTAL IMPROVEMENT				\$51,029.85

SPECIAL PROJECTS

Stockpile Site Preparation	\$2,320.00
Rock stockpile sites at Points C and D	\$7,030.15
Construct 1500 cubic yard stockpile of 1 1/2"-0" crushed rock	\$20,670.00
Construct 3500 cubic yard stockpile of 4"-0" crushed rock	\$46,095.00
Construct 500 cubic yard stockpile of 4"-0" crushed rock	\$6,545.00
SUBTOTAL SPECIAL PROJECTS	\$82,660.15

GRAND TOTAL

\$133,690.00

SUMMARY OF CONSTRUCTION COST

Sale: **Donut Salvage** Road: **A to B**

Construction -	0+00	stations	Improvement -	84+85	stations	Reconstruction -	0+00	stations
	0.00	miles		1.61	miles		0.00	miles

ROCK							
0+00 to	84+85	2,970	cy. of	Crushed	@	\$14.88 per c.y.=	\$44,193.60
Junction Rock	0+00	30	cy. of	Crushed	@	\$15.65 per c.y.=	\$469.50
						TOTAL ROCK	\$44,663.10

SPECIAL PROJECTS							
Excavate and endhaul ditchile material to waste area	59.00	stations @	\$80.00	per station		\$4,720.00	
Grade and shape road -	84.85	stations @	\$15.50	per station		\$1,318.75	
Grass seed and fertilize -	0.40	acres @	\$220.00	per acre		\$88.00	
Mulching -	0.400	acres @	\$600.00	per acre		\$240.00	
						TOTAL SPECIAL PROJECTS	\$6,366.75
GRAND TOTAL							\$51,029.85

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Crushed		Location:	Hansen Road Quarry
Sale:	Donut Salvage		Road:	3000 c.y.
Swell:	1.40		Stockpile/Base/Landing:	5525 c.y.
Shrinkage	1.16		Total Truck Loads:	9025 c.y.
Drill Pct.:	100%		In Place Total:	6446 c.y.

Pit Development & Cleanup including Clearing and grubbing of Waste Area. Excavate and endhaul overburden to waste areas, spread and compact and pump water from pond **\$11,400.00**

Drill & Shoot:	\$2.25	/cu.yd.	x	6446	cu.yds.	=	\$14,503.50
Load Rock:	\$0.70	/cu.yd.	x	9025	cu.yds.	=	\$6,317.50
Transport To crushing site	\$1.03	/cu.yd.	x	9025	cu.yds.	=	\$9,295.75
Load Crusher:	\$0.70	/cu.yd.	x	9025	cu.yds.	=	\$6,317.50
Crush 4"0" Rock:	\$3.50	/cu.yd.	x	4525	cu.yds.	=	\$15,837.50
Crush 1 1/2"-0" Rock:	\$4.25	/cu.yd.	x	4500	cu.yds.	=	\$19,125.00
Load Dump Truck:	\$0.70	/cu.yd.	x	9025	cu.yds.	=	\$6,317.50
						Subtotal	\$89,114.25

Move In/Set-up Crusher							\$3,500.00
Move In and set up Drill and Compressor	1		@	\$408.25		=	\$408.25
Move in Roller and Compactor	1		@	\$408.25		=	\$408.25
Move in Grader	1		@	\$153.30		=	\$153.30
Move in D-8	1		@	\$513.89		=	\$513.89
Move in Loader	1		@	\$402.17		=	\$402.17
Move in Excavator	1		@	\$555.94		=	\$555.94
Move in Trucks	4		@	\$130.29		=	\$521.16
Move in Water Truck	1		@	\$153.14		=	\$153.14
Move in Backhoe for ditching & curve widenin	1		@	\$408.25		=	\$408.25
Change Gradation				\$300.00			\$300.00
						Subtotal	\$7,324.35

Base Cost=	\$10.69	Per Cu.Yd.			TOTAL PRODUCTION COSTS	\$96,438.60
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Road Segment	Haul Cost \$/cu.yd.	Proc Cost \$/cu.yd.	Base Cost. \$/cu.yd.	Cost \$/cu.yd.	Number Cu. Yds	ROCK COST	
A to B Crushed Rock 1 1/2"-0"	1.74	2.45	10.69	14.88	2970	\$44,193.60	
4"-0" Crushed Stockpile (#1)	1.38	1.10	10.69	13.17	3500	\$46,095.00	
4"-0" Crushed Stockpile (#3)	1.30	1.10	10.69	13.09	500	\$6,545.00	
1 1/2"-0" Crushed Stockpile (#2)	1.99	1.10	10.69	13.78	1500	\$20,670.00	
A to B Junction Rock 1 1/2"-0"	2.51	2.45	10.69	15.65	30	\$469.50	
Stockpile Base #1	1.38	1.10	10.69	13.17	335	\$4,411.95	
Stockpile Base #2	1.99	1.10	10.69	13.78	190	\$2,618.20	
				Total C.Y.	9025	Sub Total	\$125,003.25
						TOTAL ROCKING COSTS	\$125,003.25



OREGON DEPARTMENT OF FORESTRY
CRUISE REPORT
Donut Salvage

1. **Type of Sale**

Blow-down salvage, Recovery

2. **Legal Description**

Sections 9 and 16, T3N, R9W, W.M. Tillamook County, Oregon

3. **Sale Acreage**

Sale acreage was determined by GPS, orthophotographs, GIS, and previously posted boundaries.

	ACRES	
	<u>Gross</u>	<u>Net</u>
Area 1	16	16
Area 2	35	35
Area 3	15	15
Area 4	7	7
Area 5	6	6
Area 6	5	4
Area 7	2	2
Area 8	25	25
Total	111	110

Gross Acres

Area within the Timber Sale Boundary signs

Net acres

Used for calculating the advertised volume.

Gross acres, less green tree retention, roads, and riparian areas.

4. **Volume Calculations:**

A stand level inventory (SLI) was performed in 2005 with good coverage over the entire blow down area. SLI information yielded QMD, BA/AC, and BF/AC.

This information was applied with 15% Defect and Breakage. This gave us our final volume totals. Grades were applied as follows: 2S=65%, 3S=30%, 4S=5%.

5. **Hidden Defect and Breakage**

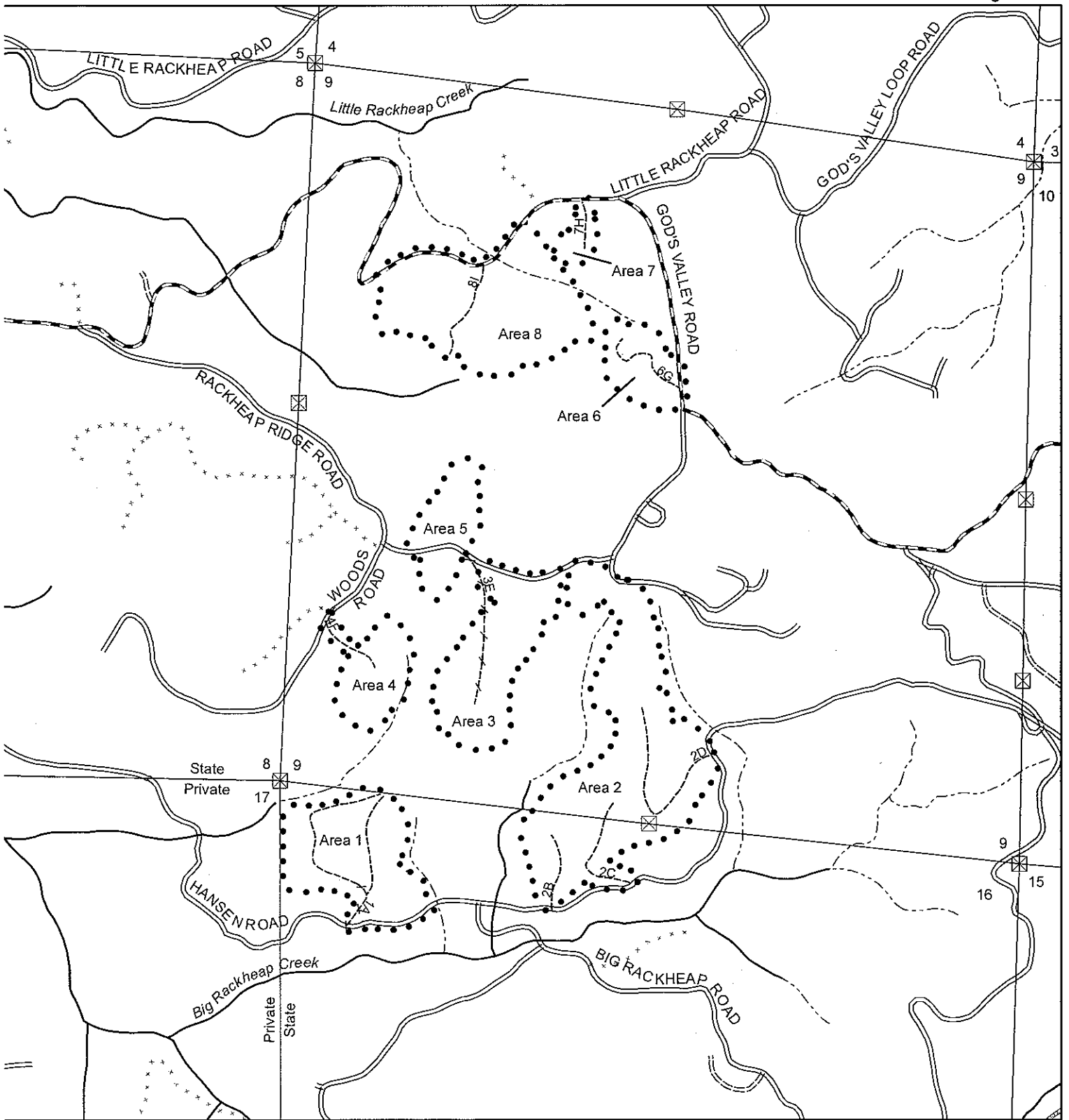
15% was taken out due to breakage.

6. **Revenue Distribution**

FDF 100%

Tax Code: 56-1

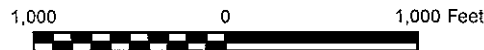
Deed Numbers: 35 and 146



- 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
- Unsurfaced road
- Surfaced road
- State/Federal highway
- County road
- Non-project road
- 1A Designated skid trail
- 3B Skid trail
- Legacy road
- × × × Blocked road
- ⋯ OHV trail
- T T T Transmission line

LOGGING PLAN

Timber Sale Contract No. 341-09-33
 Donut Salvage
 Portions of Sections 9 and 16,
 T3N, R9W, W.M.,
 Tillamook County, Oregon



Tillamook District GIS
 07/22/2008

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

Area	Type of Operation	Gross	Net Acres
1	Salvage	16	16
2	Salvage	35	35
3	Salvage	15	15
4	Salvage	7	7
5	Salvage	6	6
6	Salvage	5	4
7	Salvage	2	2
8	Salvage	25	25
Total		111	110