

Tillamook District:

October 01, 2008 Date:

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$132,970.73	\$0.00	\$132,970.73
	Maria de la companio	Project Work:	\$(20,800.00)
		Advertised Value:	\$112,170.73

10/1/08



"STEWARDSHIP IN FORESTRY"

District: Tillamook

Date:

October 01, 2008

timber description

Location: Portions of Section 12, T3S, R7W, W.M., Tillamook County, Oregon.

Stand Stocking: 60%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)	
Douglas - Fir	14	0	95	
Western Hemlock / Fir	13	0	95	

Volume by Grade	28	38	48	Total
Douglas - Fir	118	705	446	1,269
Western Hemlock / Fir	13	55	29	97
Total	131	760	475	1,366

comments: Pond Values Used: 3rd Quarter Calendar Year 2008.

Western Red Cedar Stumpage Price = Pond Value minus Logging Cost \$655/MBF = \$955/MBF - \$300/MBF

Red Alder Stumpage Price = Pond Value minus Logging Cost \$335/MBF = \$635/MBF - \$300/MBF

Other Costs (with Profit & Risk to be added):
Brand and Paint: \$2/MBF x 1,366/MBF = \$2,732

TOTAL Other Costs (with Profit and Risk to be added) =\$2,732

Other Costs (No Profit and Risk added):

BLM Maintenance Fees: \$14,432.40

TOTAL Other Costs (No Profit and Risk added) =\$14,432.40

ROAD MAINTENANCE:

Surfacing: 118/cy @ \$6.60/cy / 1366/MBF = \$0.57/MBF

Grading Final Maintenance: \$500/mile x 6 miles x 1

grading/1366/MBF = \$ 2.20/MBF

TOTAL ROAD MAINTENANCE COST: \$ 2.77/MBF

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"STEWARDSHIP IN FORESTRY"

Tillamook

Timber Sale Appraisal South Ginger Sale 341-09-40

Date:

October 01, 2008

logging conditions

combination#: 1

District:

Douglas - Fir

35.05%

yarding distance: Medium (800 ft)

Western Hemlock / Fir

25.00%

logging system: Cable: Small Tower <=40

downhill yarding: Process: Stroke Delimber

tree size:

Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF bd. ft / load:

3,200

loads / day: cost / mbf:

5.0

\$177.14

machines:

Log Loader (A) Stroke Delimber (A) Tower Yarder (Small)

combination#: 2

Douglas - Fir

29.52%

Western Hemlock / Fir

35.00%

logging system:

yarding distance: Short (400 ft)

downhill yarding:

Process: Stroke Delimber

tree size:

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

Shovel

loads / day:

bd. ft / load:

3,400

cost / mbf:

\$120.86

machines:

Stroke Delimber (B)

combination#: 3

Douglas - Fir

35.43%

yarding distance: Medium (800 ft)

Western Hemlock / Fir

40.00%

downhill yarding: Process: Stroke Delimber

logging system: tree size:

Track Skidder

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

loads / day:

4.0

bd. ft / load:

3,300

cost / mbf:

\$108.96

machines:

Stroke Delimber (B)



"STEWARDSHIP IN FORESTRY"

District: Tillamook

Date:

October 01, 2008

logging costs

Operating Seasons:

2.00

Profit Risk:

20.00%

Project Costs:

\$20,800.00

Other Costs (P/R):

\$2,732.00

Slash Disposal:

\$0.00

Other Costs:

\$14,432.40

Miles of Road

Road Maintenance:

\$2.77

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	3.3
Western Hemlock / Fir	\$0.00	2.0	3.5

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"STEWARDSHIP IN FORESTRY"

District: Tillamook

Timber Sale Appraisal South Ginger Sale 341-09-40

Date:

October 01, 2008

logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas -	Fir								
\$136.37	\$2.91	\$6.42	\$92.80	\$2.00	\$48.10	\$0.00	\$5.00	\$10.57	\$304.17
Western F	lemlock /	Fir							
\$130.17	\$2.91	\$6.42	\$87.50	\$2.00	\$45.80	\$0.00	\$5.00	\$10.57	\$290.37

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$407.26	\$103.09	\$0.00
Western Hemlock / Fir	\$0.00	\$312.53	\$22.16	\$0.00

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"STEWARDSHIP IN FORESTRY"

District: **Tillamook** Date:

October 01, 2008

summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00
Western Hemlock / Fir	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	1,269	\$103.09	\$130,821.21
Western Hemlock / Fir	97	\$22.16	\$2,149.52

Gross Timber Sale Value

Recovery:

\$132,970.73

Prepared by: David Luttrell

Phone: 503-815-7025

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THE WARDS OF A POSSIBLE

PROJECT SUMMARY SHEET

Sale: South Ginger

CONSTRUCTION

Point	G to H	0+90 SUE	stations = STOTAL CONSTRUCTION	\$164.36 \$164.36
IMPROVEM	ENT			
Point Point Point Point Point	A to B C to D E to F G to H I to J	1+50 9+15 5+10 29+20 11+40 SU	stations = stations = stations = stations = stations = stations = BTOTAL IMPROVEMENT	\$520.45 \$2,947.02 \$872.95 \$6,153.91 \$4,217.98 \$14,712.31
RECONSTR	RUCTION			
Point Point	C to D K to L	4+45 6+70 SUBTO	stations = stations = TAL RECONSTRUCTION	\$1,774.73 \$1,541.29 \$3,316.02
MOVE IN				\$2,607.31
			GRAND TOTAL	\$20,800.00

Road: A to B South Ginger Sale: stations 0+00 1+50 Reconstruction stations Improvement -Construction -0+00 stations 0.00 miles 0.03 miles 0.00 miles **IMPROVEMENT**: EXCAVATION r sta. = \$75.00 TOTAL EXCAVATION 1.50 sta. @ \$50.00 per sta. = Road Earthwork \$75.00 ROCK \$365.40 3" Crushed @ \$5.22 per c.y.= 70 cy. of 0+00 1+50 to \$365.40 **TOTAL ROCK** SPECIAL PROJECTS \$15.50 \$220.00 \$23.25 per station 1.50 stations @ Grade and shape road per acre \$15.40
per acre \$41.40
TOTAL SPECIAL PROJECTS acres @ 0.07 Grass seed and fertilize -\$600.00 0.069 acres @ Mulching -\$80.05

\$520.45

GRAND TOTAL

Sale:	South Ginger			Road:	C to D	
Construction - 0+00 0.00	_stations miles	Improvement -	9+15 0.17	stations miles	Reconstruction - 4+45 0.08	stations miles
IMPROVEMENT: CLEARING AND GRUBS Scattering IMPROVEMENT: EXCAVATION -	BING -	0.42	.0 acres @		per acre = \$411.60	
Road Earthwork		9.1	5 sta. @	\$10.00	per sta. = \$91.50 TOTAL EXCAVATION	
RECONSTRUCTION: CLEARING AND GE Scattering	RUBBING -	0.53	0 acres @		per acre = \$519.40	·
RECONSTRUCTION: EXCAVATION - Road Earthwork		4.4	5 sta. @	\$15.00	per sta. = \$66.75 TOTAL EXCAVATION	·
ROCK 0+00 to 13+60	410	cy, of 3" Crushed	@	\$6.47	7 per c.y.= \$2,652.70 TOTAL ROC	
SPECIAL PROJECTS Grade and shape road - Grass seed and fertilize - Mulching -		13.6 0.9 0.95	4 acres @	\$15.50 \$220.00 \$600.00	D per acre \$206.80	_
					GRAND TOTAL	\$4,721,75

Sale:	South Ginger			Road:	E to F		
Construction - 0+00 0.00	stations <u>Improven</u>	nent -	5+10 0.10	stations miles	Reconstruction -		ations iles
IMPROVEMENT: CLEARING AND GRUE Scattering	BBING -	0.230	acres @		per acre = . CLEARING AN	\$225.40 D GRUBBING	\$225.40
<u>IMPROVEMENT</u> : EXCAVATION - Road Earthwork		5.10	sta. @	\$10.00	per sta. = T OTAL	\$51.00 EXCAVATION	\$51.00
ROCK 0+00 to 1+00	50 cy. of	3" Crushed	@	\$6.53	per c.y.=	\$326.50 TOTAL ROCK	\$326.50
SPECIAL PROJECTS Grade and shape road - Grass seed and fertilize - Mulching -		5.10 0.23 0.234	stations @ acres @ acres @	\$15.50 \$220.00 \$600.00	per acre per acre	\$79.05 \$50.60 \$140.40 CIAL PROJECTS	\$270.05
					GRAND TOTAL	L [\$872.95

Sale: South Ginger Road: G to H 0+90 stations Construction -Improvement -29+20 stations Reconstruction -0+00 stations 0.02 miles 0.55 miles 0.00 miles CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -Avg. Dist. Station Station Avg. Sideslope To W.A. (mi.) Outslope/Ditch Cost per Station 29+20 29+80 5% Outslope \$74 \$44,40 TOTAL \$44.40 **IMPROVEMENT: CLEARING AND GRUBBING -**Scattering 2.010 acres @ \$980.00 per acre = \$1,969.80 TOTAL CLEARING AND GRUBBING \$1,969.80 **IMPROVEMENT: EXCAVATION -**29.20 Road Earthwork sta. @ \$10.00 per sta. ≃ \$292.00 **TOTAL EXCAVATION** \$292.00 ROCK 4+00 70 3" Crushed @ \$6.91 per c.y.= \$483.70 0+75 to cy. of 3" Crushed 18+80 to 26+00 210 cy. of @ \$5.87 per c.y.= \$1,232.70 30+10 50 3" Crushed \$5.98 per c.y.= \$299.00 29+20 cy. of @ to **TOTAL ROCK** \$2,015.40 **SPECIAL PROJECTS** Grade and shape road -30.10 stations @ \$15.50 per station \$466.55

30.10

1.38

1.382

stations @

acres @

acres @

Roll subgrade w/ vibratory roller prior to rocking -

Grass seed and fertilize -

Mulching -

GRAND TOTAL

per station

per acre

per acre

\$13.20

\$220.00

\$600.00

\$6,318.27

\$1,996.67

\$397.32

\$303.60

\$829.20

TOTAL SPECIAL PROJECTS

Sale:		South Ginger				Road:	<u>I to J</u>		
Construction -	0+00 0.00	stations , miles	Improvement		11+40 0.22	_stations miles	Reconstruction -		ations iles
IMPROVEMENT: CLEARING Scattering IMPROVEMENT: EXCAVA		BING -		0.790	acres @		per acre = L CLEARING AN	\$774.20 D GRUBBING	\$774.20
Road Earthwork				11.40	sta. @	\$15.00	per sta. = TOTAL	\$171.00 EXCAVATION	\$171.00
CULVERTS - MATERIAL	S & INSTALL	Culverts 35 Culvert Stakes &	LF of 18 <u>Markers</u> markers	" \$612.50 \$612.50 \$8.00 \$8.00			тотл	AL CULVERTS	\$620.50
ROCK 0+00 to Culvert Backfill	8+00 4+75	240 30	cy. of cy. of	3" Crushed Crushed	@		per c.y.= per c.y.=	\$1,735.20 \$161.70 TOTAL ROCK	\$1,896.90
SPECIAL PROJECTS Grade and shape road - Roll subgrade w/ vibratory Grass seed and fertilize - Mulching -	roller prior to I	rocking -		11.40 11.40 0.52 0.523	stations @ stations @ acres @ acres @	\$15.56 \$13.20 \$220.00 \$600.00	per station per acre per acre TOTAL SPEC	\$176.70 \$150.48 \$114.40 \$313.80 CIAL PROJECTS	\$755.38
							GRAND TOTAL	· [\$4,217.98

Sale:			South Ging	<u>er</u>				Road:	K to L		
Constructi	<u> </u>	0+00 0.00	_stations miles	Ī	mprovement		0+00 0.00	_stations miles	Reconstruction	- 6+70 0.13	stations miles
Scattering			RUBBING -			0.650	acres @		per acre = . CLEARING AI	\$637.00 ND GRUBBING	\$637.00
Recons Road Eart	TRUCTION : EXCAV hwork	ATION -				6.70	sta. @	\$15.00	per sta. = TOTAL	\$100.50 EXCAVATION	\$100.50
ROCK 0+00	to	1+00		50	cy. of	3" Crushed	@	\$7.17	per c.y.=	\$358.50 TOTAL ROCK	\$358.50
Grade and Roll subgi	. PROJECTS d shape road - rade w/ vibratory roll d and fertilize - -	ler prior to r	rocking -			6.70 6.70 0.31 0.308	stations @ stations @ acres @ acres @	\$15.50 \$13.20 \$220.00 \$600.00	per station per acre per acre	\$103.85 \$88.44 \$68.20 \$184.80 CIAL PROJECTS	5 \$445.29

GRAND TOTAL

\$1,541.29

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

		rushed_Pile outh Ginger 0.00 0.00 0%		- -	SW 1/4 Sec.1 Road: Stockpile: Total Truck L In Place Tota		7.M. 1180 c.y. C.y. 1180 c.y. c.y.
	Pit Development & Clear Waste Area @ adjacent in Waste Area, spread a	to pit, place overbu					\$0.00
	Load Dump Truck:	,	\$0.70	_/cu.yd. x	1180	cu.yds. =	\$826.00
						Subtotal	\$826.00
	Move in Excavator		1	@	\$574.67	=	\$574.67
	Move in Water Truck Change Gradation		1	@	\$144.85	=	\$144.85
						Subtotal	\$719.52
	Danie Cont	A1 21	Day Co. Vd	ТОТ	AL PRODUCT	ION COSTS	\$1,545.52
	Base Cost=	\$1.31	Per Cu.Yd.				
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 0 150 (3" Crushed)	1.46	2.45	1.31	5.22	70		\$365.40
C to D 0 1360 (3" Crushed)	2.71	2.45	1.31	6.47	410		\$2,652.70
E to F 0 100 (3" Crushed)	2,77	2.45	1.31	6.53	50		\$326.50
G to H 75 400 (3" Crushed)	3.15	2.45	1.31	6.91	70		\$483.70
G to H 1880 2600 (3" Crushed)	3.46	1.10	1.31	5.87	210		\$1,232.70
G to H 2920 3010 (3" Crushed)	3.57	1.10	1.31	5.98	50		\$299.00
I to J 0 800 (3" Crushed)	3. 4 7	2.45	1.31	7.23	240		\$1,735.20
I to 3 Culvert Backfill (Crushed)	3.48	0.60	1.31	5.39	30		\$161.70
K to L 0 100 (3" Crushed)	3.41	2.45	1.31	7.17	50		\$358.50
				Total C.Y.	1180	Sub Total	\$7,615.40
					TOTAL ROCK	ING COSTS	\$7,615.40
					TO TAL NOCK		φ,,σ13.70

Move-In Calculations for Project Work not Involving Rocking/Pit Work

Sale: South Ginger

LOWBOY HAUL (Round Trip)							
		AVE SPEED					
DIST. (mi)	ROADWAY	(mph)					
52.0	Pavement	30					
2.0	Main Lines	7					
	6.	2					
1.0	Steep Grades						

_								Within	
	EOUIPMENT	Move in	Pilot	Within Area	Beain	End	Total	Area	Total
		Cost	Cars	Move (\$/mile)	Mileage	Mileage	Miles	Cost	Cost
No		\$421.29	COID	\$3.65	0.00	0.00	0	\$0.00	\$421.29
	Graders	\$388.32		\$5.00	0.00	0.00	0	\$0.00	\$388.32
	Rollers (smooth/grid) & Compactors	\$614.54	1	\$44.80	0.00	0.00	Ó	\$0.00	\$614.54
_	Excavators (Large)	\$576.19	2	\$11.30	0.00	0.00	Ō	\$0.00	\$576.19
	Tractors (D7)		2	\$2.85	0.00	0.00	ŏ	\$0.00	\$462.12
	Dump Truck (10 cy +)	\$462.12		\$2.85	0.00	0.00	Ö	\$0.00	\$144.85
1	Water Truck (2500 Gal)	\$144.85		Ф 2.03	0.00	0.00	J	+0.00	4 = 7 1144
					TOTAL M	OVE-IN C	OSTS:		\$2,607.31



OREGON DEPARTMENT OF FORESTRY CRUISE REPORT

South Ginger

1. Type of Sale

Partial Cut and Clearcut, Conifer / Recovery

2. <u>Legal Description</u>

Portions of Sections 12 T3S, R7W, W.M. Tillamook County, Oregon

3. Sale Acreage

ACRES

	<u>Sale</u>	<u>Net</u>
Partial Cut	118	88
Clearcut	34	32
Total Acres	152	120

Sale Acres

Area within the Timber Sale Boundary signs.

Net acres

Used for calculating the advertised volume.

Sale acres, less green tree retention, roads, utility, right-of-way, and less riparian areas inside the sale boundary.

4. Cruising Procedures

A. Cruise Method

A total of 56 variable radius plots were taken on the sale area, spaced on a square grid of 350' x 350'. All plots were full cruise plots. All conifers 8 inches DBH and greater containing 20 net board feet and all hardwoods 9 inches DBH and greater containing 30 net board feet were recorded on all plots. Species were recorded on all trees, and they were graded and measured for merchantable height, diameter, and form factor.

B. Plot size

A basal area factor of 40 was used for the Timber Sale Area. The point of observation is 4.5 feet.

C. Grading System

All trees were graded according to Columbia River Log Scaling and

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Grading Rules. Tree heights were recorded to a 6 inch top outside bark for all conifers and 7 inches top outside bark for hardwoods; or three tenths (0.3) of DBH for all species, whichever was greater. Log lengths all favored 40 feet for all species. Height and diameter measurement standards were to the nearest foot or inch respectively. All diameters were taken at a height of 4.5 feet on the uphill side.

5. <u>Computation Procedure</u>

Plot data was entered into SuperAce for computation of basal area, stand tables, and volume for each species and type. This data was then entered into the Volume Summary table to compute sale volumes. The standard error for the cruise was 10.0% and the coefficient of variation was 49.2% based on 18 mbf per acre.

6. <u>Hidden Defect and Breakage</u>

No hidden defect and breakage was taken for the timber in this sale.

7. <u>Timber Description</u>

The Sale area was logged in the late 1950's. Areas in the sale were either planted or seeded in the 1960's. The northern portion of the sale was precommercially thinned. Area 2 is a Douglas-fir dominated stand with alder along the major draws. Areas 1 and 3 are Douglas-fir dominated as well, but have pockets of root rot throughout. The alder was sprayed in the late 1970's.

8. <u>Cruiser Names/Dates</u>

Luttrell/Wells/Stumpf/Yau, June 2008

Interns: Wyatt, Humphreys, Coons, Johnson

9. Revenue Distribution

FDF: 100%

Tax Code: 8

Deed Numbers: 186

10. Attachments

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

11. Stand and Log Stock Tables Species Key

DL – Douglas-fir leave

DF - Douglas-fir take

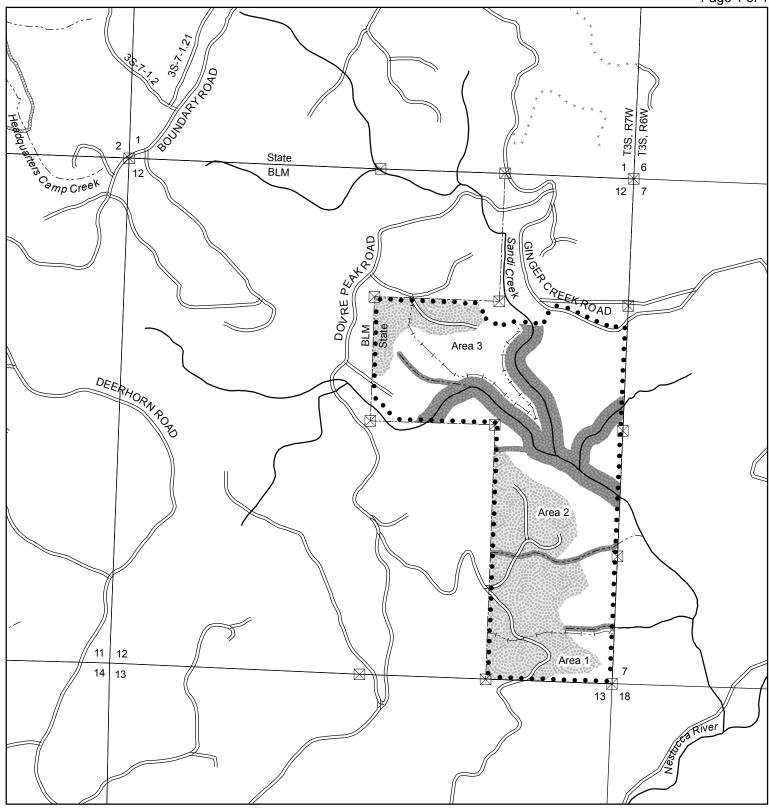
RA - Red alder reserved

RC - Western red cedar reserved

SL – Sitka spruce reserved

WL- Western hemlock leave

WH- Western hemlock take





T T Transmission line

LOGGING PLAN

Timber Sale Contract No. 341-09-40 South Ginger Portions of Section 12, T3S, R7W, W.M., Tillamook County, Oregon

	mamook obanty, orogon	
1,000	0	1,000 Feet
	Tillamook District GIS 07/17/2008 This product is for informational use and may not have been prepared for, or suitable for legal, engineering, or surveying purposes	

	Type of	Acres			
Area	Operation	Gross	Net		
1	Modified Clearcut	16	15		
2	Partial Cut	118	88		
3	Modified Clearcut	18	17		
Total		152	120		

