



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Good Barber
Sale 341-15-51

District: Western Lane

Date: July 01, 2014

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$597,164.05	\$11,519.91	\$608,683.96
		Project Work:	\$(39,820.00)
		Advertised Value:	\$568,863.96



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timber description

Location: Portions of Section 6, T18S, R8W, W.M., Lane County, Oregon.

Stand Stocking: 60%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	17	0	97
Maple	16	0	96

Volume by Grade	2S	3S	4S	Camprun	Total
Douglas - Fir	828	740	267	0	1,835
Maple	0	0	0	93	93
Total	828	740	267	93	1,928



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comments: Pond Values Used: 2nd Quarter Calendar Year 2014.

Western Hemlock and Other Conifers Stumpage Price = Pond Value
minus Logging Cost:
 $\$193.87/\text{MBF} = \$510/\text{MBF} - \$316.13/\text{MBF}$

Western redcedar and Other Cedars Stumpage Price = Pond Value
minus Logging Cost:
 $\$733.87/\text{MBF} = \$1,050/\text{MBF} - \$316.13/\text{MBF}$

Red Alder Stumpage Price = Pond Value minus Logging Cost:
 $\$298.87/\text{MBF} = \$615/\text{MBF} - \$316.13/\text{MBF}$

Peelable Cull (Conifer) Price = $\$80/\text{MBF}$

Pulp Prices (Conifer and Hardwood) = $\$5/\text{MBF}$

SCALING COST ALLOWANCE = $\$5.00/\text{MBF}$

FUEL COST ALLOWANCE = $\$4.00/\text{Gallon}$

HAULING COST ALLOWANCE
Hauling costs equivalent to $\$780$ daily truck cost.

Other Costs (with Profit & Risk to be added):
None.

Other Costs (No Profit & Risk added):
Roadside Brushing for Truck Haul = $\$1,000$
Final Road Maintenance = $\$17,905$
Rockwear Fee (Existing Easement) = $\$3,734$
Rockwear Fee (Temporary Agreement) = $\$281$
TOTAL Other Costs (No Profit & Risk added) = $\$22,920$



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logging conditions

combination#:	1	Douglas - Fir	100.00%
		Maple	100.00%
yarding distance:	Long (1,500 ft)	downhill yarding:	No
logging system:	Cable: Medium Tower >40 - <70	Process:	Manual Falling/Delimbing
tree size:	Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF		
loads / day:	6.0	bd. ft / load:	4,000
cost / mbf:	\$144.17		
machines:	Log Loader (A) Tower Yarder (Medium)		



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logging costs

Operating Seasons:	1.00	Profit Risk:	20.00%
Project Costs:	\$39,820.00	Other Costs (P/R):	\$0.00
Slash Disposal:	\$0.00	Other Costs:	\$22,920.00

Miles of Road

Road Maintenance: \$0.00

Dirt	Rock (Contractor)	Rock (State)	Paved
0.0	6.0	0.0	0.0

Hauling Costs

Species	\$ / MBF	Trips/Day	MBF / Load
Douglas - Fir	\$0.00	2.0	4.0
Maple	\$0.00	2.0	3.5



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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									
\$144.17	\$6.30	\$2.27	\$83.69	\$0.00	\$47.29	\$0.00	\$5.00	\$11.89	\$300.61
Maple									
\$144.17	\$6.36	\$2.27	\$96.57	\$0.00	\$49.87	\$0.00	\$5.00	\$11.89	\$316.13

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$626.04	\$325.43	\$0.00
Maple	\$0.00	\$440.00	\$123.87	\$0.00



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summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00
Maple	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	1,835	\$325.43	\$597,164.05
Maple	93	\$123.87	\$11,519.91

Gross Timber Sale Value

Recovery: \$608,683.96

Prepared by: Jason Hayzlett

Phone: 541-935-2283

Summary of "Other Costs" for Timber Sale Appraisals

Good Barber (341-15-51)

"Other Costs" with Profit and Risk to be Added:

None

Total "Other Costs" with Profit and Risk to be Added:

\$0



"Other Costs" With No Additional Profit and Risk

	<u>Units</u>	<u>Quantity</u>	<u>Cost/Unit</u>	<u>Total Cost</u>
Roadside brushing for truck haul	Operation			\$ 1,000.00
Final road maintenance	Operation			\$ 17,905.00
Rockwear fee associated with existing easement	Operation			\$ 3,733.60
Rockwear fee for temporary road use agreement	Operation			\$ 280.80
Total "Other Costs" With No Additional Profit and Risk:				\$ 22,919
Cost per MBF	1,928	MBF		\$ 11.89

Good Barber
341-15-51
Combined Project Costs

Project 1	New construction: Clear and grub, Construct and compact sub-grades, apply surfacing rock, in compliance to exhibits D, E and F in the contract.	
	Construct Spur 1a	\$ 10,038.00
	Construct Landing at Point F	\$ 2,508.00
	Move in Cost	\$ 2,450.00
	Total Project 1 Costs	\$ 14,996.00
Project 2	Road Improvement: Grade and shape, remove bank slough, apply rock, in compliance to exhibits D, E, and F in the contract	
	Improve Barber Ridge Road	\$ 12,940.00
	Improve Spur 1	\$ 11,884.00
	Total Project 2 Costs	\$ 24,824.00
TOTAL PROJECT COSTS		\$ 39,820.00

Note: The sum of the Subgrade Construction/ Road Improvement spreadsheet and Rocking and Compacting spreadsheet shall equal the total project costs. Move in cost are a one time cost.

State Timber Sale Contract
341-15-51
Good Barber

Final Road Maintenance Cost Summary

Totals	Barber Ridge Rd	Spur 1	Spur 1a	TOTAL
Stations	328.00	9.70	4.60	
Cost/Sta	\$ 50.37	\$ 73.65	\$ 36.83	
Total Cost	\$ 16,522.13	714.41	169.41	\$ 17,405

Spot Rocking	Barber Ridge Rd	Spur 1	Spur 1a	TOTAL
Total Yds	400	20		
Rock Size	1 1/2"-0"	1 1/2"-0"	0	
\$/yd	\$26.07	\$26.07	\$0.00	
Subtotal	\$ 10,428	\$ 521	\$ -	\$ 10,949

Grade,Shape & Pull Ditches	Barber Ridge Rd	Spur 1	Spur 1a	TOTAL
Stations	328.00	9.70	4.60	
\$/STA	\$ 18.35	\$ 18.35	\$ 18.35	
Subtotal	\$ 6,019	\$ 178	\$ 84	\$ 6,281

Install Waterbars	Barber Ridge Rd	Spur 1	Spur 1a	TOTAL
# of waterbars			2.00	
\$/waterbar	\$35.00	\$35.00	\$35.00	
Subtotal	\$ -	\$ -	\$ 70.00	\$ 70.00

Landing clean up	Barber Ridge Rd	Spur 1	Spur 1a	TOTAL
Stations	5.00	1.00	1.00	
\$/STA	\$ 15.00	\$ 15.00	\$ 15.00	
Subtotal	\$ 75	\$ 15	\$ 15	\$ 105

Move In	Initial	Between Proj.
Grader	\$ 500	
Vibratory Rolloer		
D * Cat		
Excavator		
Dump Truck		

Move in costs associated with one entry for the entire project

Total Final Maintenance Costs **\$ 17,905**

State Timber Sale Contract
341-15-51
Good Barber

Rocking and Compaction

Rock Source: Hale Valley

Rock Quantity (Inplace)

Base Rock	Barber Ridge Rd	Spur 1	Spur 1a	TOTAL
Rock Size	0	3'-0"	Jaw Run	
Stations		3.70	4.60	9.00
Approx yds/sta		35	36	
Subtotal base (cu. yds)	0	130	166	296

Cap Rock	Barber Ridge Rd	Spur 1	Spur 1a	TOTAL
Rock Size	0	1 1/2"-0"	1 1/2"-0"	
Stations		9.7	4.6	15.00
Approx yds/sta		25	12.5	
Subtotal cap (cu. yds)	0	240	58	298

Landings	Barber Ridge Rd	Spur 1	Spur 1a	TOTAL
Rock Size	Jaw Run	Jaw Run	Jaw Run	
Stations	1.00	2.00	2.00	5.00
Approx yds/sta	33	33	33	
Subtotal base (cu. yds)	33	66	66	165

Additional Rock	Barber Ridge Rd	Spur 1	Spur 1a	TOTAL
Rock Size	1 1/2"-0"			
Turnouts and Turn-Arounds	1			
Approx cu. yds	10			
Subtotal Turnouts/Around (cu. yds)	10	0	0	10
Rock Size	1 1/2"-0"			
Number of Points	33			
Spot Rocking (Yds)	10			
Subtotal Spot Rock	330	0	0	330

ROCK COST (Rock + Delivery)

Road Segment/Name	Barber Ridge Rd	Spur 1	Spur 1a	TOTAL
Rock Size	0	3'-0"	Jaw Run	
Approx cu. yds	0	130	166	296
Cost/yd (includes load/spread)	\$0.00	\$25.46	\$24.25	
Subtotal Cost "Base" Rock	\$ -	\$ 3,310	\$ 4,027	\$ 7,337

Rock Size	0	1 1/2"-0"	1 1/2"-0"	
Approx cu. yds	0	240	58	298
Cost/yd (includes load/spread)	\$0.00	\$26.07	\$26.07	
Subtotal Cost "Cap" Rock	\$ -	\$ 6,257	\$ 1,499	\$ 7,756

Rock Size	1 1/2"-0"	0	0	
Approx cu. yds Turnouts/Arounds	10	0	0	10
Cost/yd (includes load/spread)	\$26.07	\$0.00	\$0.00	
Rock Size	1 1/2"-0"	0	0	
Approx cu. Yds Spot/Widening	330	0	0	
Cost/yd (includes load/spread)	\$26.07	\$0.00	\$0.00	
Subtotal Cost "Additional" Rock	\$ 8,864	\$ -	\$ -	\$ 8,864

Rock Size	Jaw Run	Jaw Run	Jaw Run	
Approx cu. yds	\$ 33	\$ 66	\$ 66	165
Cost/yd (includes load/spread)	\$24.25	\$24.25	\$24.25	
Subtotal Cost "Landing" Rock	\$ 800	\$ 1,600	\$ 1,600	\$ 4,000

Grand total quarry approx yds	43	436	289.56	769
Total Quarry Rock Cost	\$ 9,664	\$ 11,168	\$ 7,126	\$ 27,958

Compaction w/ Vibratory Roller	Barber Ridge Rd	Spur 1	Spur 1a	TOTAL
Road Stations	34.00	9.70	4.60	49.00
Lifts	1	1	2	
Cost/Station	\$20.20	\$20.20	\$20.20	
Subtotal Compaction	\$ 687	\$ 196	\$ 186	\$ 1,069

\$/yd ³ rock in place & compacted	Barber Ridge Rd	Spur 1	Spur 1a	Total
Total Rock Costs	\$10,351	\$11,364	\$7,312	\$ 29,027

Move-in included in subgrade construction

Due to rounding, the numbers in the table above may not add up to the totals shown.

State Timber Sale Contract
 Good Barber
 341-15-51

Subgrade Construction/Road Improvements

Processing and Decking Right-of-Way Logs Not Included

Totals	Barber Ridge Rd	Spur 1	Spur 1a	TOTAL
Stations	328	9.7	4.6	343
Cost/Sta	15.54	53.62	592.55	
Cost	\$ 5,097	\$ 520	\$ 2,726	\$ 8,343.00

Earthwork

Clearing and Grubbing	Barber Ridge Rd	Spur 1	Spur 1a	TOTAL
Acreage	0.2	0.2	0.6	
Cost/Acre	\$1,337.00	\$1,337.00	\$1,337.00	
Total	\$ 267	\$ 267	\$ 802	\$ 1,336.00

Excavation yards are bank run from State's design

Construction/Excavation	Barber Ridge Rd	Spur 1	Spur 1a	TOTAL
Stations			4.6	
Drift/Excavation Cu Yd				
\$/sta	\$122.00	\$122.00	\$122.00	
Drift/Excavation \$/yd				
Landing Construction			\$585.00	
Subtotal	\$ -	\$ -	\$ 1,146	\$ 1,146.00

End-haul Costs are in addition to excavation costs above. Assumes 5% loss of endhaul material.

Cu Yd	450		150	
\$/yd	\$4.00		\$4.00	
\$/sta				
Subtotal	\$ 1,800	\$ -	\$ 600	\$ 2,400.00

Subgrade/Surfacing Treatment

Compaction w/ Roller	Barber Ridge Rd	Spur 1	Spur 1a	TOTAL
Road Stations	1	3.7	4.6	10
Cost/STA	\$ 20.20	\$ 20.20	\$ 20.20	
Subtotal	\$ 20	\$ 75	\$ 93	\$ 188

Grade and Shape	Barber Ridge Rd	Spur 1	Spur 1a	TOTAL
Road Stations	164	9.7	4.6	
Cost/STA	\$ 18.35	\$ 18.35	\$ 18.35	
Subtotal	\$ 3,009	\$ 178	\$ 84	\$ 3,271

Move in Cost	Initial	Between Projects
D-7 Cat	\$ -	
Dump Truck	\$ 150	
grader	\$ 500	
excavator	\$ 1,500	
vibratory roller	\$ 200	
water truck	\$ 100	
small excavator	\$ -	

Project Cost \$ 8,343.00

Move In Cost \$ 2,450

Total Cost \$ 10,793.00

Due to rounding, the numbers in the table above may not add exactly.

Cruise Report

Good Barber

SALE # 341-15-051

Sale Area: Portions of Section 6, T18S, R8W, W.M., Lane County, Oregon. The gross acreage is 78. There are 5 acres of stream buffers and approximately 5 acre of roads. The sales net harvestable acres are 68. Acres were determined by using a combination of aerial photos, GPS, GIS, and topographic maps.

Stand Description: Good Barber is a mixed species harvest unit dominated by Douglas-fir in the uplands. The draws are dominated with big leaf maple and red alder. Other minor species include western red cedar, western hemlock, and chinquapin. The stands average DBH is 16". Douglas-fir "take trees" have an average DBH of 17". Understory vegetation is moderate. The unit consists of 50-80% slopes with several small perennial streams.

Cruise Method: The sale area was cruised in a grid pattern using a systematic variable radius plot sampling method. A Basel Area Factor of 40 was used. A total of 11 cruise plots were captured with an average of 5 trees per plot. Every tree was graded using the official rules for log scaling for the above species. 2 saw and 3 saw quality lumbered favored 40' and 36' log lengths. Deductions for defect were estimated on a tree by tree basis. Logs that were not at least 12 feet in length and having at least 20 bf were not counted.

Cruiser: Chad Howard and Patrick Whalen

Volume Table: Volumes were computed by using the Super Ace program. A breakage and damage factor of three percent was used. Leave tree volumes are excluded from the totals.

	2 Saw (MBF)	3 Saw (MBF)	4 Saw (MBF)	Camp Run (MBF)	Sub-Total (MBF)
Douglas-fir	828	740	267		1835
BM/RA				93	93
Total					1928

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Average BF/Acre = 28,364

