



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Cost Summary Mill Pond Overlook Sale 341-02-76

District: Coos

Date: 5/10/02

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$770,225.04	\$34,507.20	\$804,732.24
		Project Work	(\$30,985.00)
		Advertised Value	\$773,747.24



Timber Sale Appraisal Timber Description Mill Pond Overlook Sale 341-02-76

"STEWARDSHIP IN FORESTRY"

District: Coos

Location: 5 miles up the 2000 Rd
 Por of Sec 33 T23S R11W, WM
 Por of Sec 4 T24S R11W, WM
 Coos Co., OR

Date: 5/10/02

Stand Stocking: 60%

Species	Avg. DBH	Amortized%	Recovery%
Douglas - Fir	28	0	95
Alder (Red)	13	0	90

Volume by Grade	Douglas - Fir	Alder (Red)	Total
2S	1,531	0	1,531
3S	307	0	307
4S	8	0	8
Camprun	0	140	140
Total	1,846	140	1,986

Comments: Pond Values Used: 1st Quarter 2002

Sale is 54 Acres of 126 year timber of low stocking
 and 21 Acres of 40 year DF and Alder poorly stocked



Timber Sale Appraisal Logging Conditions Mill Pond Overlook Sale 341-02-76

"STEWARDSHIP IN FORESTRY"

Combination#: 1	Douglas - Fir	95.23%	
	Alder (Red)	41.43%	
Yarding Distance:	Medium (800 ft)		Downhill Yarding: No
Logging System:	Cable: Large Tower >=70		Process: Manual Delimiting
Tree Size:	Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF		
Loads/Day:	10		Bd. Ft./Load: 4,800
Cost/MBF:	\$73.96		
Machines:			
	Log Loader (A)		
	Tower Yarder (Large)		
Combination#: 2	Douglas - Fir	4.77%	
	Alder (Red)	58.57%	
Yarding Distance:	Long (1,500 ft)		Downhill Yarding: No
Logging System:	Cable: Large Tower >=70		Process: Manual Delimiting
Tree Size:	Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF		
Loads/Day:	5		Bd. Ft./Load: 3,000
Cost/MBF:	\$232.03		
Machines:			
	Log Loader (A)		
	Tower Yarder (Large)		



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Logging Costs Mill Pond Overlook Sale 341-02-76

Date: 5/10/02

Operating Seasons: 0.7

Profit & Risk: 15%

Project Costs: \$30,985

Other Costs (P/R): \$9,536

Slash Disposal: \$0

Other Costs: \$0

Miles of Road			
Dirt	Rock (Contractor)	Rock (State)	Paved
0.2	0.0	0.0	0.0

Road Maintenance: \$0.00

Hauling Costs

Species	\$/MBF	Trips/Day	MBF/Load
Douglas - Fir	\$0.00	2.0	4.8
Alder (Red)	\$0.00	3.0	3.0



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Logging Costs Breakdown Mill Pond Overlook Sale 341-02-76

Costs	Douglas - Fir	Alder (Red)
Logging	81.50	166.54
Road Maintenance	0.06	0.07
Fire Protection	0.96	0.96
Hauling	48.42	56.78
Other (P/R appl.)	4.80	4.80
Profit & Risk	20.36	34.37
Slash Disposal	0.00	0.00
Scaling	2.00	0.00
Other	0.00	0.00
Total	158.10	263.52

Amortization	0.00	0.00
Pond Value	575.34	510.00
Stumpage	417.24	246.48
Amortized	0.00	0.00



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Summary Mill Pond Overlook Sale 341-02-76

Amortized

	Douglas - Fir	Alder (Red)
MBF	0.00	0.00
Value	0.00	0.00
Total	0.00	0.00

Unamortized

	Douglas - Fir	Alder (Red)
MBF	1,846.00	140.00
Value	417.24	246.48
Total	770,225.04	34,507.20

Gross Timber Sale Value

Recovery \$804,732.24

Prepared by: Chris Rudd

Date: 5/10/02

District: Coos

Phone: (541) 267-1756

Summary of "Other Costs" for Timber Sale Appraisals

Sale Name: Mill Pond Overlook

Additional "Other Cost" with additional profit and risk to be added:

	<u>Units</u>	<u>Quantity</u>	<u>Cost/unit</u>	<u>Total Cost</u>
Felling				
Small Tree Volume Cost addition	MBF	80	\$ 10.00	\$ 800.00
Felling of unmerch material	MBF	80	\$ 10.00	\$ 800.00
Yarding and Loading				
Brand and paint logs	MBF	1986	\$ 1.00	\$ 1,986.00
Loader time for firewood stacking	Hours	3	\$ 75.00	\$ 225.00
Slash piling on landings	landing	3	\$ 125.00	\$ 375.00
Miscellaneous Costs				
Additional fire equipment	Seasons	0.7	\$ 2,000.00	\$ 1,400.00
Safety signing	per day	70	\$ 5.00	\$ 350.00
Snag Creation				
Tree Topping	per tree	36	\$ 100.00	\$ 3,600.00
Total additional "Other Cost" with additional profit and risk to be added				\$ 9,536.00

Project Cost Summary Sheet Mill Pond Overlook

Project No. 1: Road and Landing Improvement

Points A to B
Length: 680'
Type: 14 ft, no ditch

Excavation

Drill and Shoot	<u>1429</u>	cubic yds at	<u>\$3.00</u>	per cu yd	<u>\$4,287.00</u>
Cat excavation	<u>428</u>	cubic yds at	<u>\$0.53</u>	per cu yd	<u>\$226.84</u>
Excavation	<u>2158</u>	cubic yds at	<u>\$1.67</u>	per cu yd	<u>\$3,603.86</u>
Laborer	<u>10</u>	hrs at	<u>\$30.00</u>	per hr	<u>\$300.00</u>

Total Excavation \$8,417.70

Hauling

Endhaul to waste area (Pt. E) (2.4 mi RT)	<u>2158</u>	cubic yds at	<u>\$2.21</u>	per cu yd	<u>\$4,769.18</u>
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Total Hauling \$4,769.18

Waste Area Development

D8 Cat time	<u>15</u>	hrs at	<u>\$125.00</u>	per hr	<u>\$1,875.00</u>
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Total Waste Area \$1,875.00

Move-in

Equipment	Miles	Mileage Factor	Equipment Allowance	Total
Excavator	25	0.58	\$533.00	\$309.14
D8 Cat	25	0.58	\$533.00	\$309.14
Grader	25	0.58	\$241.00	\$139.78
Drill & Comp	25	0.58	\$241.00	\$139.78
Dump Truck	25	0.58	\$144.00	\$83.52
Dump Truck	25	0.58	\$144.00	\$83.52

Total Move-in \$1,064.88

Grade Road Surface

<u>1</u>	hrs Grade @	<u>\$75.00</u>	per hour	<u>\$75.00</u>
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Total Grading \$75.00

Project 1 Cost \$16,201.76

Project 2: Road Widening

Points: C

Clearing and Grubbing

Sawtime for cutbank brush	<u>3</u>	hrs at	<u>\$30.00</u>	per hr	<u>\$90.00</u>
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Total clearing and grubbing \$90.00

Excavation

Drill and Shoot	<u>1092</u>	cubic yds at	<u>\$3.00</u>	per cu yd	<u>\$3,276</u>
Excavation	<u>1929</u>	cubic yds at	<u>\$2.00</u>	per cu yd	<u>\$3,858</u>
Drill and Shoot Ditchline	<u>220</u>	linear ft at	<u>\$2.73</u>	per lin. Ft.	<u>\$600</u>
Laborer	<u>15</u>	hrs at	<u>\$30.00</u>	per hr	<u>\$450</u>

Total Excavation \$8,184.16

Hauling

Endhaul to waste area (Pt. E) (2.4 mi RT)	<u>1708</u>	cubic yds at	<u>\$2.21</u>	per cu yd	<u>\$3,774.68</u>
Haul Boulders to waste area (Pt. D) (1.4 mi RT)	<u>200</u>	cubic yds at	<u>\$1.55</u>	per cu yd	<u>\$310.00</u>

Total Hauling \$4,084.68

Waste Area Development

D8 Cat Time	<u>7.5</u>	hrs at	<u>\$125.00</u>	per hr	<u>\$937.50</u>
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Total Waste Area \$937.50

Rock

Road Surfacing (1 1/2" - 0")	<u>108</u>	cubic yds at	<u>\$7.00</u>	per cu yd	<u>\$756.00</u>
Haul Cost for Rock	<u>108</u>	cubic yds at	<u>\$5.33</u>	per cu yd	<u>\$575.64</u>
Processing (Grader)	<u>108</u>	cubic yds at	<u>\$0.75</u>	per cu yd	<u>\$81.00</u>

Total Rock \$1,412.64

Grade Road Surface

Prepare surface for rock spread	<u>1</u>	hrs Grade @	<u>\$75.00</u>	per hour	<u>\$75.00</u>
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Total Grading \$75.00

Project 2 Cost \$14,783.98

Total Project Costs \$30,985.74

TIMBER SALE SUMMARY

Mill Pond Overlook

1. **Type of sale:** Final harvest; Recovery, Sealed Bid.
2. **Boundary Lines:** Sale boundaries are marked on the ground with “Timber Sale Boundary” posters, red paint, and red flagging at locations shown on the Exhibit A.
3. **Revenue Distribution:** 100% CSL, 0% BOF.
4. **Sale Acreage:** The total sale Area is 75 acres. The acreage was measured by digitizing the boundary over an orthophoto image in ArcView software, a geographic information system.
5. **Volume by Species, Fund, and County:** See table on following page.
6. **Grade by Percent:**

Species (by Area)	3 Peeler	Special Mill	2 Saw	3 Saw	4 Saw/Camp
Douglas-fir (I)	-----	-----	85	15	0
Douglas-fir (II)			42	49	9
Hardwood (I)	-----	-----	-----	-----	100
Hardwood (II)	-----	-----	-----	-----	100

7. **Cruise:** Area I is of the older forest type typical of the 120 year stands on the Elliott State Forest. Area II is mixed alder and Douglas-fir approximately 40 years old. Each area was stratified and cruised separately with a slightly different sample design. Both units were variable plot cruised using the big basal area factor method but with different prism factors. In the Big BAF method the ratio of count plots to measured trees is much higher than in traditional cruise designs. In Area I, 81 count plots were established using a 40 BAF on full plots and 30 trees were selected and fully measured from nested full circle plots using a 360 BAF. Fifty six alder were measured or estimated in Area II and 9 Douglas-fir were measured over 34 plots. For both areas Heights, diameter, form factor, grade and defect were taken on measure plots. Mill Pond Overlook was cruised by ODF Foresters and compiled using Superace, in January of 2002. The combined sampling error was 8%.

A. Cruise Summary Data: (Combined Units)

Diameter	Top Diameter	Form Point	Form Factor	CV %	SE %
D4H	Total Height	Conifer: 16' Hardwood: 16'	Recorded or estimated on all trees	62	8

B. Stand Summary:

Species (By Area)	D4H	Trees per Acre	Basal Area (ft²/ac)	BF per acre
Douglas-fir (I)	28.5	32.7	145.6	32,529
Douglas-fir (II)	16.2	29	42	4,190
Hardwood (I)	16	11	20	1,059
Hardwood (II)	13	61	56	3,905

C. Green Tree Retention Summary: The following tree counts and tree volumes were marked for retention within the cruised portion of the sale area. The tree volumes were deducted from the cruise results.

Area	Douglas-fir (I)	Douglas-fir (II)
Tree Count	7	8
Volume (MBF)	25	1.6

- 8. Timber Description:** Area I of Mill Pond Overlook is approximately 125 year old second growth Douglas-fir, of good to average quality, with a small amount of alder understory. It was thinned about 20 years ago leaving a lower density stand (RD=29 and 32.5 MBF/acre). Area II of the sale is scattered Douglas-fir averaging 16.2 inches DBH and sparse hardwoods averaging about 13 inches.
- 9. Topography:** The sale is steep (>70%) and dissected with draws. The Northeast of Area I is convex with two draws, one of which has the green tree retention described in the table above. See the topographic map for greater detail.
- 10. Logging Method:** The sale will be cable logged uphill with single-end suspension over the unit. Full suspension will be required over designated streams and RMAs. A motorized carriage may be needed to obtain the necessary suspension.
- 11. Access:** From Coos Bay take the Coos River Highway to Allegany. Turn left onto County Road and follow for five miles. Turn left on the 2000 Road (Trail Butte or Dean Mountain). The sale is located 5 ½ miles up the 2000 (See Exhibit A).
- 12. Projects:**
 - Project No. 1: Road and landing improvement
 - Project No. 2: Road widening.

NET VOLUMES AND ACREAGE

SALE AREA & SPECIES		Tree cnt. 100% Units	NET VOLUMES (MBF)							
			By County and Fund						Total Vols.	Vol. per Acre
			Coos			Douglas				
Area	Spec		CSL	BOF	Total	CSL	BOF	Total		
I	D-fir				1758			0	1758	32.5
	Hdwd				58			0	58	1.1
II	D-fir				88			0	88	4.2
	Hdwd				82			0	82	3.9
TOTALS			0	0	1986	0	0	0	1986	

TOTAL SALE VOLUME BY SPECIES

Douglas-fir 1846 MBF
 Hardwoods 140 MBF
 Total Sale 1986 MBF

Report by: Mill Pond Overlook

Date: 3/25/2002

Unit For. *W. P. King* 3/29/02
 Date

Asst. Dist. For. *Gregory & Krueger* 3/29/2002
 Date

**UTILITY VOLUME NOT SHOWN TO PROVIDE FOR RETENTION OF DOWN LOGS
 NO INGROWTH INCLUDED**

ACREAGE BY COUNTY (to nearest acre)

Sale Area	Coos County						Douglas County						TOTAL ACRES
	CSL			BOF			CSL			BOF			
	Conifer		Hard wood	Conifer		Hard woods	Conifer		Hard woods	Conifer		Hard woods	
	cc	pc		cc	pc		cc	pc		cc	pc		
I	54												54
II			21										21
SUM	54	0	21	0	0	0	0	0	0	0	0	0	75

cc- clearcut

pc- partial cut

BOF - Board of Forestry

CSL - Common School Land

WRITTEN PLAN

SALE NAME: Mill Pond Overlook

LOCATION: Portions of Sections 33, T23S R11W and Sections 4 T24S R11W, Coos County, Oregon

LANDOWNER: Oregon Department of Forestry; 63612 Fifth Road, Coos Bay, Or.

CONTRACT PURCHASER: _____

NOTIFICATION NO: _____

FILE: I:\Timber Sales\FPAPLANS\Mill Pond Overlook.doc

SITUATION AND PROTECTED RESOURCE

The Mill Pond Overlook timber sale is located in a high risk area and contains high risk sites. It is near to Mill Pond Creek a type F stream tributary to the West Fork of the Millicoma River. Cable lines from the operation may extend over the protective buffer strip which has been widened to about 300 feet in width because of yarding limitations and green tree retention. The locations of the high risk sites are at the headwalls of streams as shown on the contract Exhibit A.

LAYOUT

Landings have been provided to enable best possible deflection for suspension of logs while yarding the sale area.

FELLING AND BUCKING

1. Felling will be done during the dry season of the year between April 15 and October 15, annually, unless other wise approved by STATE because of dry weather. Felling is approved in the restricted season with the following conditions:
2. Trees shall be directionally felled parallel to or away from high-risk sites or stream riparian management areas (RMA's) as feasible.
3. High stumps shall be left as needed and feasible to minimize accumulation of logs in stream channels in or adjacent to high risk sites.
4. Do not fell any trees or snags within the posted RMA boundaries.

YARDING

1. Operator will use a machine and logging system capable of fully suspending logs..
2. Yarding will be done during the dry season of the year between May 1 and October 15, annually, unless other wise approved by STATE.
3. Operator will fully suspend logs when yarding over high-risk sites where sufficient deflection is available.
4. When cables pass through or over the buffer strips shown on the contract Exhibit "A", protect the residual timber as follows:
 - a. Pull cables out of the residual timber prior to rigging the next yarding road.
 - b. Do not lower the skyline into the buffer during the yarding cycle.
 - c. Yarding roads shall be a minimum of 100 feet apart where they extend over or through the RMA.
 - d. Fully suspend logs unless lift is not available as determined by STATE.

SLOPE PROTECTION

Purchaser shall establish or maintain plant species that will enhance slope stability in harvested areas where needed to minimize the risk of erosion.

O.D.F. REPRESENTATIVE DATE: _____

PURCHASER REPRESENTATIVE DATE: _____

OPERATOR REPRESENTATIVE (if listed on notification) DATE: _____

APPROVED BY: _____ DATE: _____
FOREST PRACTICES FORESTER