



"STEWARDSHIP IN FORESTRY"

# Timber Sale Appraisal Cost Summary Piledriver Sale 341-04-88

District: Coos

Date: 4/2/04

	Conifer	Hardwood	Total
<b>Gross Timber Sale Value</b>	\$609,719.88	\$21,984.72	\$631,704.60
		<b>Project Work</b>	(\$31,175.90)
		<b>Advertised Value</b>	\$600,528.70



# Timber Sale Appraisal Timber Description Piledriver Sale 341-04-88

"STEWARDSHIP IN FORESTRY"

**District:** Coos

**Location:** Portions of Section 16 & 21  
Township 24 South  
Range 11 West

**Date:** 4/2/04

**Stand Stocking:** 60%

Species	Avg. DBH	Amortized%	Recovery%
Douglas - Fir	18	0	90
Alder (Red)	15	0	90

Volume by Grade	Douglas - Fir	Alder (Red)	Total
3P	59	0	59
SM	43	0	43
2S	748	0	748
3S	393	0	393
4S	11	0	11
CR 14" - 22"	0	47	47
<b>Total</b>	<b>1,254</b>	<b>47</b>	<b>1,301</b>

**Comments:** Pond Values Used: 1st Quarter 2004.



# Timber Sale Appraisal Logging Conditions Piledriver Sale 341-04-88

"STEWARDSHIP IN FORESTRY"

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<b>Combination#:</b> 1	Douglas - Fir	100.00%	
	Alder (Red)	100.00%	
<b>Yarding Distance:</b>	Medium (800 ft)		<b>Downhill Yarding:</b> No
<b>Logging System:</b>	Cable: Large Tower >=70		<b>Process:</b> Manual Delimiting
<b>Tree Size:</b>	Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF		
<b>Loads/Day:</b>	12		<b>Bd. Ft./Load:</b> 4,500
<b>Cost/MBF:</b>	\$65.74		
<b>Machines:</b>			
	Log Loader (A)		
	Tower Yarder (Large)		



"STEWARDSHIP IN FORESTRY"

# Timber Sale Appraisal Logging Costs Piledriver Sale 341-04-88

Date: 4/2/04

Operating Seasons: 0.5

Profit & Risk: 12%

Project Costs: \$31,176

Other Costs (P/R): \$7,583

Slash Disposal: \$0

Other Costs: \$0

Miles of Road			
Dirt	Rock (Contractor)	Rock (State)	Paved
0.1	4.6	0.0	0.0

Road Maintenance: \$0.00

### Hauling Costs

Species	\$/MBF	Trips/Day	MBF/Load
Douglas - Fir	\$0.00	3.0	4.5
Alder (Red)	\$0.00	3.0	3.0



"STEWARDSHIP IN FORESTRY"

# Timber Sale Appraisal Logging Costs Breakdown Piledriver Sale 341-04-88

Costs	Douglas - Fir	Alder (Red)
<b>Logging</b>	65.74	65.74
<b>Road Maintenance</b>	2.69	2.69
<b>Fire Protection</b>	1.08	0.00
<b>Hauling</b>	37.89	56.78
<b>Other (P/R appl.)</b>	6.05	0.00
<b>Profit &amp; Risk</b>	13.61	15.03
<b>Slash Disposal</b>	0.00	0.00
<b>Scaling</b>	2.00	2.00
<b>Other</b>	0.00	0.00
<b>Total</b>	129.06	142.24

<b>Amortization</b>	0.00	0.00
<b>Pond Value</b>	615.28	610.00
<b>Stumpage</b>	486.22	467.76
<b>Amortized</b>	0.00	0.00



"STEWARDSHIP IN FORESTRY"

# Timber Sale Appraisal Summary Piledriver Sale 341-04-88

## 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	1,254.00	47.00
Value	486.22	467.76
Total	609,719.88	21,984.72

## Gross Timber Sale Value

**Recovery \$631,704.60**

Prepared by: Gloria Clary

Date: 4/2/04

District: Coos

Phone: (541) 267-1757

## SUMMARY OF CONSTRUCTION COST

### Piledriver

#### Project No. 1: Road and Landing Construction

Points: B to C      Length: 320'

#### Clearing and Grubbing

0.5      acres at      \$700.00      \$ per acre =      \$350.00

**Total clearing and grubbing      \$350.00**

#### Excavation

Drill and Shoot	<u>930</u>	cu yds at	<u>\$3.00</u>	per yd	<u>\$2,790.00</u>
Cat excavation & time for waste area	<u>25</u>	hrs at	<u>\$125.00</u>	per hr	<u>\$3,125.00</u>
Laborer	<u>25</u>	hrs at	<u>\$30.00</u>	per hr	<u>\$750.00</u>

**Total Excavation      \$6,665.00**

#### Grading

Smooth road surface      1      hrs at      \$75.00      per hr      \$75.00

**Total Grading      \$75.00**

**Project 1 Total      \$7,090.00**

#### Move-in

Equipment	Miles	Mileage Factor	Equipment Allowance	Total
D8 Cat	30	0.66	\$533.00	\$351.78
Grader	30	0.66	\$241.00	\$159.06
Drill & Comp	30	0.66	\$241.00	\$159.06

Grader to snap Cat and Drill up 1100 Rd      2      hrs at      \$75.00      per hr      \$150.00

**Total Move-in      \$819.90**

**Project 1 Cost      \$7,909.90**

#### Project No. 2: Road Improvement

Points: A to B      Length: 24,615'      Type: 14' with ditch

Grade Road Surface      10      hrs at      \$75.00      per hour      \$750.00

**Project 2 Cost      \$750.00**

#### Project No. 3: Road Surfacing

##### Maintenance rock to be used as needed during log hauling

Points: A to B (1100 Rd)

Length: 24,615'

Haul cost is for a Bobtail truck from the quarry

3/4" - 0" Crushed Rock (2 hr RT)	<u>200</u>	cu yds at	<u>\$16.25</u>	per cu yd	<u>\$3,250.00</u>
1 1/2" - 0" Crushed Rock (2.25 hr RT)	<u>200</u>	cu yds at	<u>\$17.13</u>	per cu yd	<u>\$3,426.00</u>

**SUMMARY OF CONSTRUCTION COST**  
**Piledriver**

**Project 3 Cost            \$6,676.00**

**Project No. 4: Y Creek Stockpile**

Location:                    3 mi on 1000 Rd  
Measured amount:        1000 cubic yards  
Delivered amount:        1200 cubic yards (includes 20% expansion)  
Size:                         1 1/2" - 0"

Cost per yard at crusher:	\$7.00	per yd
Haul cost per yard (1.7 hr. RT - Gould):	\$5.67	per yd
Piling and shaping cost per yard:	\$0.53	per yd
Total cost per yard:	\$13.20	per yd
Total yards:	1200	yards

**Total Cost for Stockpile rock:                    \$15,840.00**

**Project 4 Cost            \$15,840.00**

**Total Project Costs            \$31,175.90**



## TIMBER SALE SUMMARY

Piledriver

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% BOF; 100% Coos County.
4. **Sale Acreage:** The total sale area is 31.6 net acres. Grouped green trees and buffer areas are posted outside the sale area and are not included in the net acreage calculation. Therefore the gross posted acres are 33.6. The acreage was determined using orthophoto imagery on the ARCVIEW Geographic Information System program.
5. **Volume by Species, Fund, and County:** See attached table.
6. **Grade by Percent:**

Species	3 Peeler	Special Mill	2 Saw	3 Saw	4 Saw/Camp
Douglas-fir	5%	3%	60%	31%	1%
Red Alder	-----	-----	-----	-----	100%

7. **Cruise:** The unit was variable plot cruised using the Big BAF cruise design, which consisted of 37 nested plots. Each plot consists of both a full 40 BAF count plot and a full 360 BAF measure plot. The 40 BAF count plot was used to tally the number of trees by species to determine the stand basal area. The 360 BAF plot was used to select trees to cruise for diameter at breast height, height, grade and defect. Fifty-one Big BAF trees were cruised for diameter, height, grade and defect. The cruise was analyzed using the SuperACE cruising program.

### A. Cruise Summary Data:

Diameter	Top Diameter	Form Point	Form Factor	CV %	SE %
D4H	Total Height	Conifer: 16' Hardwood: 16'	Estimated or measured on all trees	55	8

### B. Stand Summary:

Species	D4H	Trees per Acre	Basal Area (ft <sup>2</sup> /ac)	BF per acre
Douglas-fir	18	119	221	44,326
Red Alder	15	26	31	1,676

C. Green Tree Retention Summary: Most green trees were posted outside of the timber sale, except 6 scattered trees which will be removed from the cruise.

Species	No.
Douglas-fir	114
Red Alder	117

**8. Timber Description:** The timber sale is a moderately stocked stand of approximately 72 year old second growth Douglas-fir, of good to average quality, with a small amount of alder in the understory.

**9. Topography:** The unit ranges from 60% to 75% slope.

**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 will be required to obtain the necessary suspension. Artificial guylines may need to be installed for yarding the sale area as approved in the operations plan.

**11. Access:** From Coos Bay, enter the forest from the south past Allegany, take Marlow Ck. Rd (1000 road) to mile post 1 ¼. Take the 1100 for about 4.5 miles to point B.

**12. Projects:**

Project No. 1: Road and Landing Construction

Project No. 2: Road Improvement

Project No. 3: Road Maintenance

Project No. 4: Y Creek Stockpile

## NET VOLUMES AND ACREAGE

SALE AREA & SPECIES		Tree cnt. 100% Units	NET VOLUMES (MBF)							
			By County and Fund						Total Vols.	Vol. per Acre
Area	Spec	Coos			Douglas					
		CSL	BOF	Total	CSL	BOF	Total			
I	D-fir	0	1254	1254			0	1254	40.4	
	Hdwd	0		47			0	47	1.5	
					0			0	0	
<b>TOTALS</b>			0	1254	1301			0	1301	

**TOTAL SALE VOLUME BY SPECIES**

Douglas-fir     1254 MBF  
Hemlock         0 MBF  
Hardwoods       47 MBF  
Total              1301 MBF

Report by: Piledriver

Date: 2/20/2004

Unit For. *Norm Klie*  
Date

Asst. Dist. For. *Greg Krueger* 2/21/2004  
Date

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

**ACREAGE BY COUNTY (to nearest acre)**

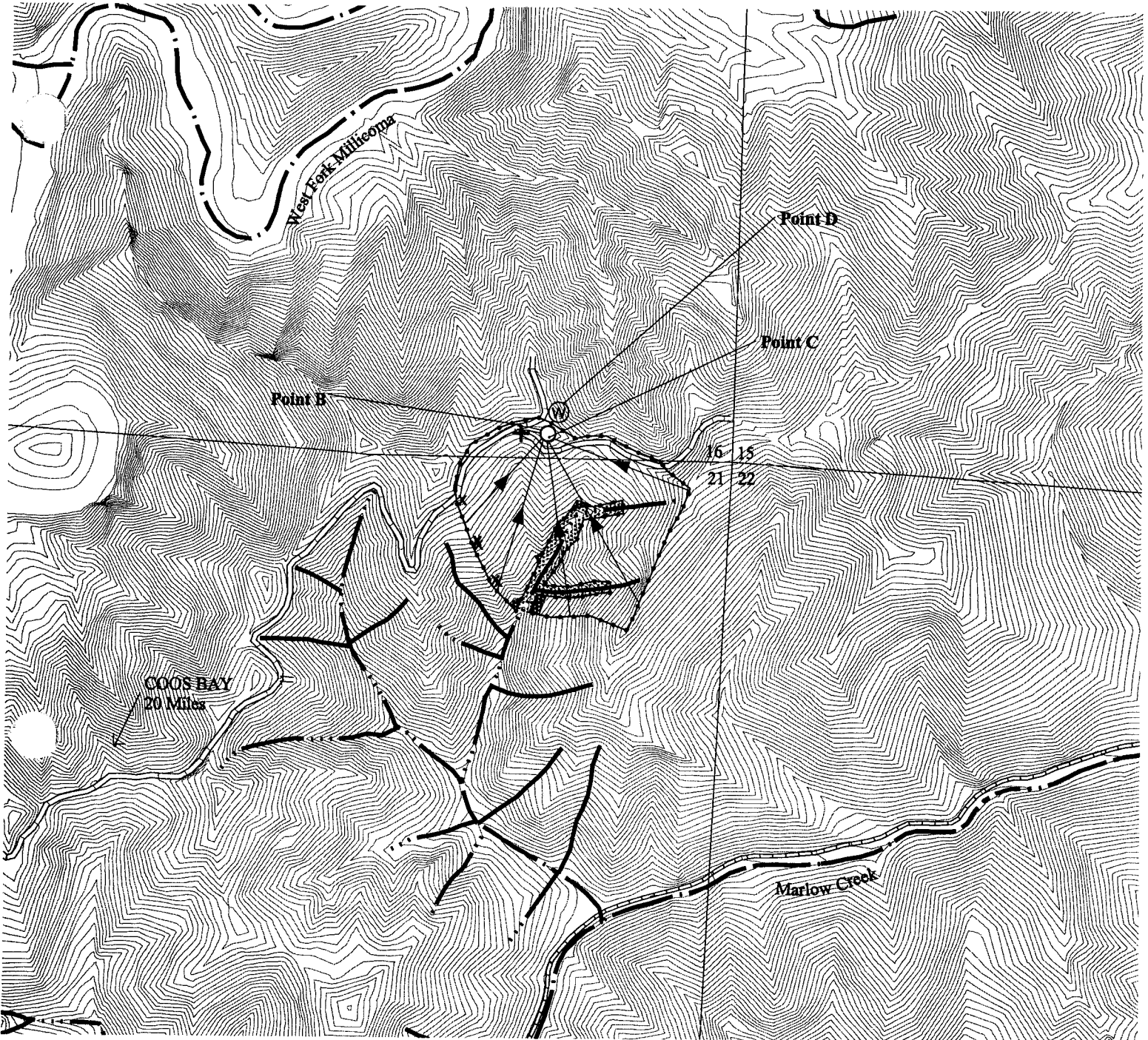
Sale Area	Coos County						Douglas County						TOTAL ACRES	
	CSL			BOF			CSL			BOF				
	Conifer cc	Conifer pc	Hard wood	Conifer cc	Conifer pc	Hard woods	Conifer cc	Conifer pc	Hard woods	Conifer cc	Conifer pc	Hard woods		
I				31										31
														0
														0
<b>SUM</b>	0	0	0	31	0	0	0	0	0	0	0	0	0	31

cc- clearcut

pc- partial cut

BOF - Board of Forestry

CSL - Common School Land



**Legend**

- Landing
- + Project Points
- Ⓜ Waste area
- ⚡ Posted Sale Boundary
- Roads**
- ▤ Purchaser Maintained Roads
- ▥ State Maintained Roads
- ▧ Purchaser Maintained Road
- ▨ Yarding Corridors
- ▩ Contours: 20 Foot
- Streams**
- Type F
- ▬ Type N
- ▭ Unknown
- ▮ Type N Draws
- ▯ Stream Buffer
- ▰ Green Tree Retention Group
- x Green Tree Retention



**LOGGING PLAN**

**PILEDRIIVER  
341-04-88**

**PORTIONS OF SECTIONS 16 AND 21, T24S, R11W, W.M.  
COOS COUNTY, OREGON  
APPROXIMATELY 31 HARVEST ACRES**

**APPROX. SCALE: 1"=1000'**

