

District:

Coos

Date:

July 07, 2008

cost summary

	Conifer	Hardwood	Total	
Gross Timber Sale Value	\$202,872.90	\$8,928.06	\$211,800.96	
1.00 Marie 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		Project Work:	\$(12,715.00)	
		Advertised Value:	\$199,085.96	

7/7/08



"STEWARDSHIP IN FORESTRY"

District: Coos Date:

July 07, 2008

timber description

Location: Portions (NE 1/4) of Section 3, T23S, R10W, W.M., Douglas County, Oregon.

Approximately 2 miles up the 7700 road of the Elliott State Forest.

Stand Stocking: 80%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	15	0	95
Western Hemlock / Fir	21	0	90
Alder (Red)	12	0	90

Volume by Grade	12"+	28	38	3S 12"+	48	5" - 7"	8" - 9"	Total
Douglas - Fir	0	302	463	60	181	0	0	1,006
Western Hemlock / Fir	0	29	33	62	13	0	0	137
Alder (Red)	10	0	0	0	0	20	4	34
Total	10	331	496	122	194	20	4	1,177

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"STEWARDSHIP IN FORESTRY"

District: Coos Date: July 07, 2008

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

Regeneration harvest containing approximately 66 acres of 46 year-old third growth Douglas-fir/hemlock/hardwood mix.

Western Red Cedar Stumpage Price = Pond Value minus Logging Cost \$765/MBF = \$1,000/MBF - \$235/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 (Profit and Risk to be added):
Directional Felling/Tree JAcking: \$2/tree x 10 trees = \$20
Brand & Paint Logs: \$1/MBF x 1,072 MBF = \$1,072
Cull Sorting/Slash Piling on Landings: \$125/hour x 3 landings = \$375
Artificial Guy Anchors (dozer, skidder): \$500/anchor x 3 anchors = \$1,500
Additional Fire Equipment: \$2,000/season x 1 season = \$2,000

TOTAL Other Costs (Profit and Risk to be added) = \$4,967

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"STEWARDSHIP IN FORESTRY"

District: Coos

Timber Sale Appraisal Double Barrel Sale 341-09-34

Date:

July 07, 2008

logging conditions

combination#: 1

Douglas - Fir

100.00%

Western Hemlock / Fir

100.00%

Alder (Red)

100.00%

yarding distance: Long (1,500 ft)

downhill yarding:

logging system:

Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF

tree size: loads / day:

bd. ft / load:

cost / mbf:

\$123.86

machines:

Log Loader (A) Stroke Delimber (A)

Tower Yarder (Medium)



"STEWARDSHIP IN FORESTRY"

District: Coos

Date:

July 07, 2008

logging costs

Operating Seasons:

0.00

Profit Risk:

15.00%

Project Costs:

\$12,715.00

Other Costs (P/R):

\$4,967.00

Slash Disposal:

\$0.00

Other Costs:

\$0.00

Miles of Road

Road Maintenance:

\$0.00

Dirt	Rock (Contractor)	Rock (State)	Paved	
0.0	1.0	0.0	0.0	

Hauling Costs

Species	\$/MBF	Trips/Day	MBF / Load
Douglas - Fir	\$0.00	2.0	4.5
Western Hemlock / Fir	\$0.00	2.0	4.5
Alder (Red)	\$0.00	2.0	3.5

Local Pond Values

Date	Specie	Grade	Value
7/7/08	Western Hemlock / Fir	2S	\$420.00
7/7/08	Western Hemlock / Fir	3S	\$390.00
7/7/08	Western Hemlock / Fir	3S 12"+	\$200.00
7/7/08	Western Hemlock / Fir	48	\$370.00

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"STEWARDSHIP IN FORESTRY"

District:

Coos

Date:

July 07, 2008

logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas -	Fir								
\$123.86	\$1.07	\$0.00	\$71.01	\$4.22	\$30.02	\$0.00	\$5.00	\$0.00	\$235.18
Western F	lemlock /	Fir							
\$123.86	\$1.12	\$0.00	\$74.39	\$4.22	\$30.54	\$0.00	\$5.00	\$0.00	\$239.13
Alder (Red	d)								
\$123.86	\$1.12	\$0.00	\$95.66	\$4.22	\$33.73	\$0.00	\$5.00	\$0.00	\$263.59

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$427.40	\$192.22	\$0.00
Western Hemlock / Fir	\$0.00	\$308.47	\$69.34	\$0.00
Alder (Red)	\$0.00	\$526.18	\$262.59	\$0.00

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"STEWARDSHIP IN FORESTRY"

District:

Coos

Date:

July 07, 2008

summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00
Western Hemlock / Fir	0	\$0.00	\$0.00
Alder (Red)	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	1,006	\$192.22	\$193,373.32
Western Hemlock / Fir	137	\$69.34	\$9,499.58
Alder (Red)	34	\$262.59	\$8,928.06

Gross Timber Sale Value

Recovery:

\$211,800.96

Prepared by: Nickolus Morris

Phone: 541-267-1756

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Summary of "Other Costs" for Timber Sale Appraisals

Sale Name: Double Barrel

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

	<u>Units</u>	Quantity	9	Cost/unit]	Total Cost
Felling						
Directional Felling/Tree Jacking	MBF	10	\$	2.00	\$	20.00
Felling of unmerch material	MBF	0	\$	1.00	\$	-
Yarding and Loading						
Brand and paint logs	MBF	1,072	\$	1.00	\$	1,072.00
Cull sorting/slash piling on landings	landing	3	\$	125.00	\$	375.00
Rig lift trees	lift tree	0	\$	100.00	\$	· -
Artificial guy anchors(dozer, skidder)	anchor	3	\$	500.00	\$	1,500.00
Skid Road Layout	MBF	0	\$	10.00	\$	•
Miscellaneous Costs						
Log Placement in Stream	Crossings	0	\$	505.00	\$	-
Additional fire equipment	Seasons	1	\$	2,000.00	\$	2,000.00
Maintenance rock per section 2610	Cubic Yards	0	\$	18.00	\$	-
Safety Flagging and/or signing	per day	0	\$	110.00	\$	-
Tree topping	per tree	0	\$	100.00	\$	-
Tree Girdling @ DBH	per tree	0	\$	50.00	\$	-
Total additional "Other Cost" with add	ditional profit and	I risk to be a	dded		\$	4,967.00

SUMMARY OF CONSTRUCTION COST Double Barrell

				Double	e Barrell			
Project 1A Points:	: Landing Co	nstruction Length:	n/a	Туре:	n/a			
	Evenuator		10	hrs at	\$120.00	per hour	\$1,200.00	
	Excavator Cat time	_	10	nrs at hrs at	\$120.00	per hour per hour	\$1,200.00	
	Laborer	_	10	hrs at	\$30.00	per hour	\$300.00	
	Laborer	_		. 1113 at	400.00	per nour	Ψοσσ.σσ	
m t 4 4 m						Total Pro	oject 1A:	\$2,700.00
	: Landing Co			T				
Points:	D	Length:	n/a	Type:	n/a			
	Excavator		10	hrs at	\$120.00	per hour	\$1,200.00	
	Cat time	-	10	- hrs at	\$120.00	per hour	\$1,200.00	
	Laborer		10	hrsat	\$30.00	per hour	\$300.00	
						Total Pro	oject 1B:	\$2,700.00
Move-in								
<u> </u>				Lowboy				
	Equipment	Miles	hrs/RT	Rate/hr	Total			
	Excavator	40	3.5	\$95.00	\$332.50			
	Cat	40	3,5	\$95.00	\$332,50			
	Grader	40	3.5	\$95.00	\$332.50			
	Dump Truck	40	3.5	\$95.00	\$332.50			
						Total M	ove-in:	\$1,330.00
						Project	1 Total	\$6,730.00
Project 2:	Road and La	ındina İmpro	vement					
Points:		Length:	275'	Туре:	: 14' no ditch			•
Excavator	- remove small tre	ees and brush	5	hrs at	\$120.00	per hour	\$600.00	
	Cat time	_	5	hrs at	\$120.00	per hour	\$600.00	
	Grader time	_	1	hrs at	\$75.00	per hour	\$75.00	
	Laborer	_	5	hrs at	\$30.00	per hour	\$150.00	
						Project	2 Total	\$1,425.00
Project 34	: Road Surfa	icina						
Points:	7000 & 7700 Ro							
1 1/2" roc	ck for maintenance	e on 7700 rd	34	yds at	\$22.86	per yd	\$777.24	
for after r	new const at Pt C	(3.0 hr RT)		•	<u> </u>	·		
1 1/2" roc	k for maintenance	e on 7000 rd	34	_ yds at	\$23.34	per yd	\$793.56	

for after new const at Pt D (3.1 hr RT) Grader time for rock surfacing

Total Project 3A:

\$150.00

per hour

\$75.00

hrs at

\$1,721.00

SUMMARY OF CONSTRUCTION COST Double Barreli

Project 3B: Road Surfacing

Points:

7000 & 7700 Roads

1 1/2" rock for maintenance on 7700 rd	51	yds at	\$22.86	per yd	\$1,165.86
for after logging at Pt C (3.0 hr RT)	-				
1 1/2" rock for maintenance on 7000 rd	51	yds at	\$23.34	per yd	\$1,190.34
for after logging at Pt D (3.1 hr RT)					
Grader time for rock surfacing	2	hrs at	\$75.00	per hour	\$150,00
Grader move-in	3.5	hrs at	\$95.00	per hour	\$332.50

Total Project 3B:

\$2,839.00

Project 3 Total

\$4,560.00

Total Project Costs

\$12,715.00

TIMBER SALE SUMMARY

Double Barrel

- 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.
- 4. Sale Acreage: The total sale area is 66 net acres. Buffer areas are posted outside the sale area and are not included in the net acreage calculation. The acreage was determined using orthophoto imagery on the ARCMAP Geographic Information System program.
- 5. Volume by Species, Fund, and County: See attached table.

6. Grade by Percent:

Species	3 Peeler	Special Mill *(12"+)	2 Saw *(10"-12")	3 Saw *(8"-10")	3 Saw Large Diameter	4 Saw *(6"-8")
Douglas-fir			30%	46%	06%	18%
Red Alder		(29%)		(12%)		(59%)
Western Hemlock			21%	24%	45%	10%
W. Red Cedar				,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		

^{*}Numbers in parenthesis represent alder/hardwood grades

7. Cruise: This unit was variable plot cruised using the Big BAF cruise design, which consisted of 41 nested plots. Each plot has both a full 20 BAF count plot and a full 250 BAF measure plot. The 20 BAF count plot was used to tally the number of trees by species to determine the stand basal area. The 20 BAF plot was also used to cruise hardwoods and other minor species. The 250 BAF plot was used to obtain Douglas-fir trees to cruise. Selected trees were cruised for diameter at breast height, height, grade and defect. Forty-two Big BAF Douglas-fir 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'	Estimated or measured on	79.1	11.14
	·	Hardwood: 16'	all trees		

B. Stand Summary:

Species	D4H	Trees per Acre	Basal Area (ft ² /ac)	Net BF per acre
Douglas-fir	15	91	115	15,240
W. Hemlock	21	6	15	2,080

C. Green Tree Retention Summary: Most green trees were posted outside of the timber sale, except some scattered and grouped trees which were removed from the cruise. These scattered trees are marked with a "W" in red.

- 8. **Timber Description:** The sale area is composed of 37 to 44 year-old Douglas-fir with a minor component of western hemlock, red alder, and big leaf maple scattered throughout the understory and draws. Conifers range from 50 to 125 feet tall while hardwoods are about 20 to 60 feet.
- 9. Topography: The sale area is highly dissected with steep east facing slopes, narrow ridge tops, short benches and confined canyons. The majority of the sale area averages approximately 70% slope with slopes averaging 15% on the short benches.
- 10. Logging Method: The sale will be cable logged uphill with single-end suspension over the majority of the unit; full suspension will be required over designated streams and RMAs. Tail-trees may need to be placed for yarding some portions of the sale area as approved in the operations plan.
- 11. Access: From Coos Bay travel North on Highway 101 to the town of Reedsport and proceed east on Highway 38 for approximately 13 miles to the Loon Lake Road junction. From here proceed for approximately 6 miles to the 7700 road junction. Once on the 7700 road, proceed for another 2 miles to the timber sale area.

12. Projects:

Project No. 1: Road and landing construction

Project No. 2: Road and landing improvement

Project No. 3: Rock stockpile

NET VOLUMES AND ACREAGE

	LE REA &	Tree cnt.		NET VOLUMES (MBF)						
SPE	CIES	100%		By County and Fund						Vol.
·		Units		Coos Douglas					Total	рег
Area	Spec		CSL					Vols.	Acre	
	D-fir				0	1006		1006	1006	15.24
	Hem				0	137		137	137	2.08
	Cedar				0	0		0	0	0.00
	Hdwd				0	34		34	34	0.52
TOTALS		0.00	0	0	1177	0	1177	1177	17.83	

TOTAL 9	- A I C	MOLI	IR ATT	DV	CDE/	つけにむ

 Douglas-fir
 1006
 MBF

 Hemlock
 137
 MBF

 RedCedar
 0
 MBF

 Hardwoods
 34
 MBF

 Total
 1177

Report by: Nickolus Morris

04/21/2008

Unit For.

Date:

<u>~ 4/24/08</u>

Asst. Dist. For.

<u>5, 76, 2008</u>

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

ACREAGE BY COUNTY (to nearest acre)

	Coos County						Douglas County						
		CSL			BOF				BOF			TOTAL	
Sale	Co	nifer	Hard	Co	onifer	Hard	Conifer Hard Conif		ifer	Hard	ACRES		
Area	cc	рс	wood	CC	рс	woods	CC	рс	woods	cc	рс	woods	
63							63						66
SUM	0	0	0	0	0	0	63	0	0	0	0	0	66

cc- clearcut

pc- partial cut

BOF - Board of Forestry

CSL - Common School Land

CRUISE VOLUME COMPUTATION REPORT

SALE NAME: Double Barrel

DATE: 01/08/08 BY: Nick Morris

GROSS VOLUME MBF *

		<u>GV099 (</u>	OLOME M	<u>or</u>	
SPECIES>>	Doug-fir	Hemlock	r. cedar	Hardwds	TOTAL
	1120	160	0	48	1328
less retention vol	44	4	0	9	57
down wood	15		0	0	15
TOTAL	1061	156	0	39	1256

DEFECT AND BREAKAGE

Species	Doug-fir	Hemlock	Hardwds	Cedar
Field cull	0.03	0.03	0.03	0.03
Hidden cull	0.01	0.07	0.07	0.07
Breakage	0.01	0.01	0.01	0.01
TOTAL	0.05	0.11	0.11	0.11

NET VOLUME BY MBF BY AREA*

SPECIES	Doug-fir	Hemlock	r. cedar	Hardwds	TOTALS
	1007.95	138.84	0.00	34.71	1182
MOTALO	4007.0	400.04	0.00	0.4 774	4400
TOTALS	1007.95	138.84	0.00	34.71	1182

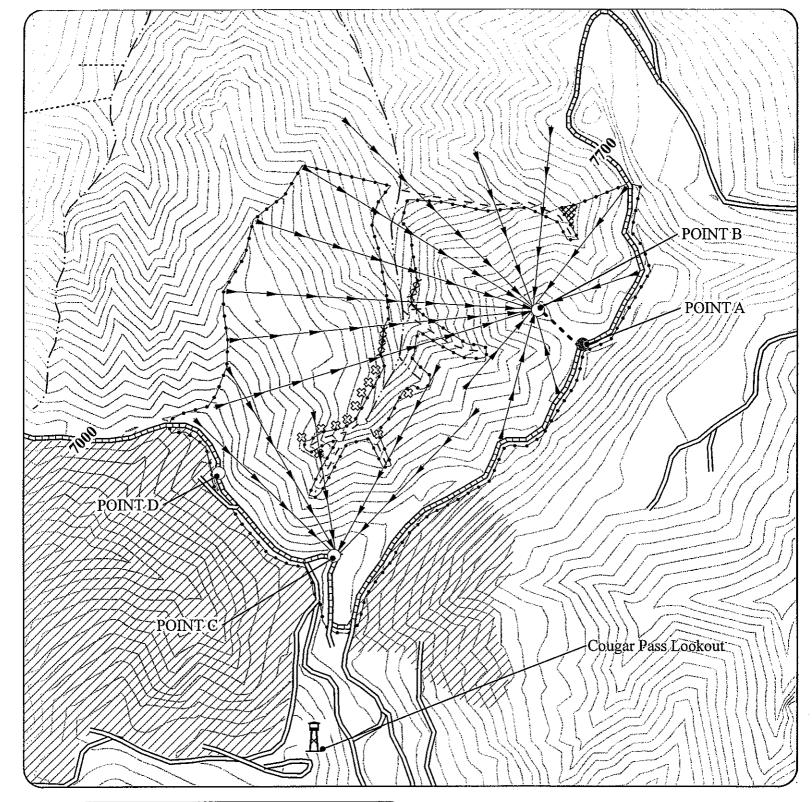
NET VOLUME BY GRADE AND MBF *

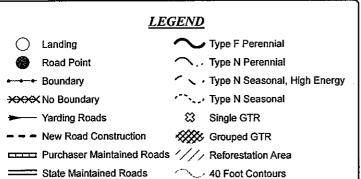
Grade >>>>>>>>	2PEE	3PEE	S.M. (12+)	2SAW (10-12)	3SAW (8-10)	Big 3 SAW	4SAW (6-8)	check
Doug-Fir	0.00	0.00	0.00	302.39	463.66	60.48	181.43	*1006
Hemlock	0.00	0.00	0.00	29.16	33.32	62.48	13.88	*137
R. Cedar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
Hdwds	0.00	0.00	10.07	0.00	4.17	0.00	20.48	*34
•	•							*1177

GRADE DISTRIBUTION BY PERCENT

Grade >>>>>>>>	2PEE	3PEE	S.M. (12+)	2SAW (10-12)	3SAW (8-10)	Big 3 SAW	4SAW (6-8)	check
Doug-fir	0.00%	0.00%	0.00%	30.00%	46.00%	6.00%	18.00%	100.00%
Hemlock	0.00%	0.00%	0.00%	21.00%	24.00%	45.00%	10.00%	100.00%
Cedar	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Hdwds	0.00%	0.00%	29.00%	0.00%	12.00%	0.00%	59.00%	100.00%

^{*} Decimal points have been dropped from final volumes.





LOGGING PLAN

OF TIMBER SALE CONTRACT #: 341-09-34 DOUBLE BARREL PORTIONS OF SECTION 3, T23S, R10W, W.M. DOUGLAS COUNTY, OREGON



APPROXIMATELY 66
NET HARVEST ACRES

500 250 0 500 1,000 Feet