



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal  
Fishing Cougar  
Sale 341-08-55

District: Coos

Date: October 05, 2007

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**cost summary**

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$1,244,676.68	\$19,361.16	\$1,264,037.84
		Project Work:	\$(54,332.00)
		Advertised Value:	\$1,209,705.84



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**timber description**

Location: Portions of Sections 4 and 5, T23S, R10W, W.M., Coos County, Oregon.

Stand Stocking: 60%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	26	0	95
Western Hemlock / Fir	18	0	90
Alder (Red)	14	0	85

Volume by Grade	(10' - 11')	(12'+) 2S	2S	3P	3S	3S 12'+	6" - 7"	SM	Total
Douglas - Fir	0	0	2,487	276	207	242	0	242	3,454
Western Hemlock / Fir	0	0	142	0	40	0	0	0	182
Alder (Red)	23	35	0	0	0	0	20	0	78
Total	23	35	2,629	276	247	242	20	242	3,714

**comments:** Pond Values Used: 3rd Quarter Calendar Year 2007.

Western Redcedar Stumpage Price = Pond Value minus Log Costs  
\$800/MBF = \$1000/MBF - \$200/MBF

**HAULING**

Hauling costs equivalent to \$700 daily truck cost.

Other Costs (Profit and Risk to be added):

Directional Felling: \$2/MBF x 750 MBF = \$1,500

Brand & Paint Logs: \$1/MBF x 3,714 MBF = \$3,714

Loader Time for Firewood Stacking = \$75/hour x 2 hours = \$150

Cull Sorting/Slash Piling on Landings: \$125/landing x 4 landings = \$500

Tree Topping: \$100/tree x 52 trees = \$5,200

Tree Girdling (DBH): \$50/tree x 18 trees = \$900

Tree Girdling (Topping Height): \$100/tree x 18 trees = \$1,800

TOTAL Other Costs (Profit and Risk to be added) = \$13,764



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**logging conditions**

<b>combination#:</b> 1	Douglas - Fir	100.00%	
	Western Hemlock / Fir	100.00%	
	Alder (Red)	100.00%	
<b>yarding distance:</b>	Long (1,500 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>	10.0	<b>bd. ft / load:</b>	4,800
<b>cost / mbf:</b>	\$76.95		
<b>machines:</b>	Log Loader (A) Tower Yarder (Large)		



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**logging costs**

Operating Seasons:	1.00	Profit Risk:	10.00%
Project Costs:	\$54,332.00	Other Costs (P/R):	\$13,764.00
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	4.8
Western Hemlock / Fir	\$0.00	2.0	4.5
Alder (Red)	\$0.00	2.0	3.5

**Local Pond Values**

Date	Specie	Grade	Value
10/5/07	Red Cedar	Camprun	\$1,000.00



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**logging costs breakdown**

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
<b>Douglas - Fir</b>									
\$76.95	\$1.07	\$1.18	\$69.60	\$3.71	\$15.25	\$0.00	\$2.00	\$0.00	\$169.76
<b>Western Hemlock / Fir</b>									
\$76.95	\$1.12	\$1.18	\$77.78	\$3.71	\$16.07	\$0.00	\$2.00	\$0.00	\$178.81
<b>Alder (Red)</b>									
\$76.95	\$1.17	\$1.18	\$104.55	\$3.71	\$18.76	\$0.00	\$2.00	\$0.00	\$208.32

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$519.98	\$350.22	\$0.00
Western Hemlock / Fir	\$0.00	\$371.21	\$192.40	\$0.00
Alder (Red)	\$0.00	\$456.54	\$248.22	\$0.00



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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	3,454	\$350.22	\$1,209,659.88
Western Hemlock / Fir	182	\$192.40	\$35,016.80
Alder (Red)	78	\$248.22	\$19,361.16

**Gross Timber Sale Value**

Recovery: \$1,264,037.84

Prepared by: Ryan Greco

Phone: 541-267-1755

## Summary of "Other Costs" for Timber Sale Appraisals

Sale Name: Fishing Cougar

### 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>
<b>Felling</b>				
Felling of unmerch material	MBF	0	\$ 1.00	\$ -
Directional Felling	MBF	750	\$ 2.00	\$ 1,500.00
<b>Yarding and Loading</b>				
Artificial tailhold	anchor		\$ 500.00	\$ -
Artificial guyline support	anchor	0	\$ 500.00	\$ -
Brand and paint logs	MBF	3714	\$ 1.00	\$ 3,714.00
Loader time for firewood stacking	Hours	2	\$ 75.00	\$ 150.00
Cull sorting/slash piling on landings	landing	4	\$ 125.00	\$ 500.00
Rig lift trees	lift tree	0	\$ 100.00	\$ -
<b>Snag Creation</b>				
Tree Topping	Trees	52	\$ 100.00	\$ 5,200.00
Tree Girdling (DBH)	Trees	18	\$ 50.00	\$ 900.00
Tree Girdling (Topping Height)	Trees	18	\$ 100.00	\$ 1,800.00
<b>Miscellaneous Costs</b>				
Additional Fire Equipment	Seasons	0	\$ 1,000.00	\$ -
Maintenance rock per section 5	Cubic Yards	0	\$ 18.00	\$ -
Safety Flagging and/or signing	per day	0	\$ 150.00	\$ -

**Total additional "Other Cost" with additional profit and risk to be added**

**\$ 13,764.00**

### Additional "Other Cost" with no additional profit and Risk

	<u>Units</u>	<u>Quantity</u>	<u>Cost/unit</u>	<u>Total Cost</u>
Non-required road construction	Stations			\$ -
Non-required road rocking	Cubic Yards			\$ -
Stream clearance	Feet			\$ -
Scaling (high piece count)	MBF		\$ 1.00	\$ -

**Total additional "Other Cost" with no additional profit and Risk**

**\$ -**

**SUMMARY OF CONSTRUCTION COST  
Fishing Cougar**

**Project 1A: Landing Construction**

Points:	A				
Excavator	10	hrs at	<u>\$120.00</u>	per hour	<u>\$1,200.00</u>
Cat time	10	hrs at	<u>\$120.00</u>	per hour	<u>\$1,200.00</u>
Grader for road after construction	1	hrs at	<u>\$75.00</u>	per hour	<u>\$75.00</u>

**Total Project 1A: \$2,475.00**

**Project 1B: Landing Construction**

Points:	C				
Excavator	30	hrs at	<u>\$120.00</u>	per hour	<u>\$3,600.00</u>
Cat time (waste area included)	30	hrs at	<u>\$120.00</u>	per hour	<u>\$3,600.00</u>
Dump Truck - haul to Pt D	30	hrs at	<u>\$95.00</u>	per hour	<u>\$2,850.00</u>
Dump Truck - haul to Pt D (1.1 mi RT, 4000 yds)	30	hrs at	<u>\$95.00</u>	per hour	<u>\$2,850.00</u>
Grader for 7600 rd after construction	1	hrs at	<u>\$75.00</u>	per hour	<u>\$75.00</u>

**Total Project 1B: \$12,975.00**

**Move-in**

Equipment	Miles	hrs/RT	Lowboy Rate/hr	Total
Excavator	40	4.5	\$95.00	\$427.50
Cat	40	4.5	\$95.00	\$427.50
Grader	40	4.5	\$95.00	\$427.50
Dump Truck	40	4.5	\$95.00	\$427.50
Dump Truck	40	4.5	\$95.00	\$427.50

**Total Move-in: \$2,138.00**

**Project 1 Total \$17,588.00**

**Project 2A: Road Surfacing**

Points: 7600 Road

1 1/2" rock for maintenance on 7600 rd for after new const at Pt C (3.2 hr RT)	51	yds at	<u>\$22.37</u>	per yd	<u>\$1,140.87</u>
Grader time for rock surfacing	1	hrs at	<u>\$75.00</u>	per hour	<u>\$75.00</u>

**Total Project 2A: \$1,216.00**

**Project 2B: Road Surfacing**

Points: 7600 & 7000 Roads

1 1/2" rock for maintenance on 7000 rd for after logging at Pt D (3.1 hr RT)	51	yds at	<u>\$21.92</u>	per yd	<u>\$1,117.92</u>
1 1/2" rock for maintenance on 7600 rd for after logging at Pt C (3.2 hr RT)	51	yds at	<u>\$22.37</u>	per yd	<u>\$1,140.87</u>
Grader time for rock surfacing	3	hrs at	<u>\$75.00</u>	per hour	<u>\$225.00</u>
Grader move-in	4.5	hrs at	<u>\$95.00</u>	per hour	<u>\$427.50</u>

**Total Project 2B: \$2,912.00**

**Project 2 Total \$4,128.00**



**SUMMARY OF CONSTRUCTION COST**  
**Fishing Cougar**

**Project 3: West Fork Millicoma Rock Stockpile**

Location: 1.5 mi on 8000 Rd  
Measured amount: 1200 cu yds  
Size: 1 1/2" - 0"

Cost per cu yd at crusher:	\$15.96	per yd
Haul cost per cu yd:	\$10.22	per yd
Piling and shaping cost per cu yd:	\$1.00	per yd

Total cost per cu yd:	\$27.18	per yd
Total cu yds:	1200	yards

**Total Cost for Stockpile rock: \$32,616.00**

**Project 3 Total \$32,616.00**

**Total Project Costs \$54,332.00**

## TIMBER SALE SUMMARY

### Fishing Cougar

**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 flagging, and red paint at locations shown on the Exhibit "A".

**3. Revenue Distribution:** 100% CSL, 100% Coos County.

**4. Sale Acreage:** The sale is comprised of four units totaling 69 acres. Sale acreage was determined from electronic digitizing using the ArcView GIS program. Interior road acres were accounted for by deducting from the expansion acreage.

**5. Volume by Species, Fund and County.** See Attached table titled Net Volumes and Acreages

**6. Grade:** (by Percent, all areas)

Species	3 Peeler %	Spec. Mill %	2 Saw %	3 Saw %	Big 3 Saw %	4 Saw %
Douglas-fir	8%	7%	72%	6%	7%	
Hemlock			78%	22%		
		12"+	10-11"	8-9"	6-7"	
Hardwoods		45%	29%		26%	

**7. Cruise:** Fishing Cougar was variable plot cruised using a nested Big BAF plot method. The Big BAF method is a combination of count plots and individually measured trees. The plots were spaced 132 feet apart on cruise lines spaced 290 feet apart. A 360 BAF full plot at 16 feet was taken to determine which Douglas-fir trees would be fully measured.

A total of 45 Douglas-fir trees were fully measured for DBH, height, grade and defect. A 40 BAF full plot at 16 feet was used to determine tree counts and to measure minor species. A total of 75 count plots were measured. Cruising was done in July 2007 by ODF foresters.

A. Summary data:

Diam	Ht. Stand	Form Pt.	Form Factor	CV %	SE %
D4H	6" DIB	Conifer: 16' Hardwood: 16'	Recorded for all cruised trees by estimate and measure	59%	8.3 %

B. Stand Data:

SPECIES	DBH	TREES/ACRE	BASAL AREA/AC	NET MBF/ACRE
Douglas Fir	26	64	214	50
Hemlock	18	6	19	2.6
Hardwoods	14	10	14	1.1

C. Green Tree Retention: There are numerous green tree reserve areas and scattered single trees associated with this sale. All scattered pods of trees are located in the east of Area 1 and are associated with residual old growth Douglas Fir. Other reserve areas consist of stream buffer extensions and trees left along seasonal drainages. The table below summarizes reserve trees whose volume has been removed from the cruise. Stream buffers and GTR areas are mapped in Exhibit "A."

Sale Area	Douglas fir - MBF	Hemlock MBF	Hardwood MBF
1	156.6	41	7.8

**8. Timber Description:** Timber in the sale area is stocked with mature 97 to 138 year-old Douglas-fir sawtimber with minor amounts of western hemlock and red alder. Timber quality is good.

**9. Topography:** This timber sale has all four aspects. Area 1 has the largest northern aspect while Areas 2, 3, and 4 have smaller patches of north, east, west, and southern aspects. Terrain is typically steep with some benches in the middle and lower parts of Area 1. Area 1 is bordered by the 7420 road to the north, a recent clearcut to the northwest, Fish Creek to the southwest, and a wide stream buffer to the south and southeast. Area 2, 3, and 4 are bordered to the north by the 7000 road, to the east by a recent harvest area (area 2) and 300 foot Forest Practices Act buffers to the south and west. Individual areas are split by streams flowing through the sale area. Locations of stream buffers and green tree retention areas are indicated on the Exhibit "A".

**10. Logging Method:** All areas are designed for cable logging. Final determination of landing locations and logging method must give priority to protection of stream buffers and green tree retention areas. Full suspension will be required while yarding over drainages and stream buffers, and will be maintained where possible over the remainder of the sale. Single end suspension will be utilized where full suspension is not possible. All areas are intended for dry season operation. Purchaser must comply with winter and wet weather option if operations are conducted during the wet season. The sale has been designed to be logged from four landings situated on or near the 7420, 7600, and 7000 roads. Roads and landings are indicated on the Exhibit "A".

**11. Access:** From Coos Bay, proceed 25 miles north on Highway 101. Turn east at Reedsport and travel 13.2 miles on Highway 38 to Mill Creek/Loon Lake Road, at which point turn right (south) and proceed 6 miles to forest road 7700. Travel 2.1 miles up the 7700, veer right (northwest) onto the 7000 and travel approximately 2 miles to the junction with the 7600 road.

**12. Projects:**

- Project 1:** Landing Construction
- Project 2:** Road Surfacing
- Project 3:** Stockpile replenishment

## 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			
1-4	D-fir	3446		3446			0	3446	50	
	Hdwd	77		77			0	77	1	
	WH	182		182			0	182	3	
5	D-fir	8		8			0	8	16	
	Hdwd	0.5		1			0	1	1	
	WH	0.2		0			0	0	0	

**TOTAL SALE VOLUME BY SPECIES**

Douglas-fir     3454 MBF  
Hemlock         182 MBF  
Hardwoods       78 MBF  
Total              3714 MBF

Report by: Ryan Greco

Date: 09/24/2007

Unit For. From Khe September 25, 07  
Date

Asst. Dist. For. Greg Kreininger 9.28.2007  
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
	Conifer		Hard wood	BOF		Hard woods	Conifer		Hard woods	BOF			
	cc	pc		cc	pc		cc	pc		cc	pc		
1-4	69												69
5	0.5												0.5
SUM	69.5	0	0	0	0	0	0	0	0	0	0	0	69.5

cc- clearcut

pc- partial cut

BOF - Board of Forestry

CSL - Common School Land

2S, R10W

3S, R10W

Douglas County

Coos County

33

5 4

Approx 8 miles  
to HW 38 via 7700 rd.

7420

station  
lea

POINT 'C'

AREA 3

POINT 'D'

POINT 'B'

700

AREA 1

POINT 'A'

AREA 2

Cougar

POINT 'E'

AREA 4

7600

AREA 5 ROW

- Sale Boundary
- Roads
- Construct
- Purchaser Maintained
- State Maintained
- Landings
- Road Point
- Streams**
- Type F Perennial
- Type N Perennial
- Type N Seasonal
- Yarding Corridors
- Right of Way Boundary
- 20' Contours

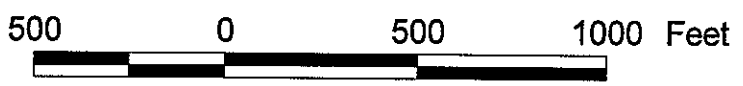


Approximate Net Acreage  
 Area 1 - 35 acres  
 Area 2 - 10 acres  
 Area 3 - 11 acres  
 Area 4 - 13 acres  
 Area 5 R/W - <1 acre  
 Total - 69 harvest acres

Approx. Scale 1" = 500'

### LOGGING PLAN

OF TIMBER SALE NO.  
 341-08-55  
 FISHING COUGAR  
 T23S, R10W, PORTIONS OF  
 SECTIONS 4 AND 5, W.M.  
 COOS COUNTY, OREGON



The information shown on this map depicts approximate locations. Exact locations of features represented by map symbols shall be determined on site and shall depend upon the conditions that exist on site. Activities will be conducted based upon features determined on site rather than features shown on this map.