



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Kelly Slim Cougar
Sale 341-11-57

District: Coos

Date: February 09, 2011

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$1,091,288.03	\$38,347.89	\$1,129,635.92
		Project Work:	\$(188,112.00)
		Advertised Value:	\$941,523.92



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
 Kelly Slim Cougar
 Sale 341-11-57

District: Coos

Date: February 09, 2011

timber description

Location: Portions of Sections 5, 6, 7, and 8, T23S, R10W, W.M., Coos County, Oregon.

Stand Stocking: 80%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	24	0	95
Western Hemlock / Fir	18	0	95
Alder (Red)	19	0	90

Volume by Grade	2S	2S 12"+	3P	3S	3S 10" -	4S 8" - 9'	6" - 7"	SM	Total
Douglas - Fir	2,243	0	195	650	0	0	0	163	3,251
Western Hemlock / Fir	29	0	0	62	0	0	0	16	107
Alder (Red)	0	55	0	0	49	13	16	0	133
Total	2,272	55	195	712	49	13	16	179	3,491



Timber Sale Appraisal
Kelly Slim Cougar
Sale 341-11-57

"STEWARDSHIP IN FORESTRY"

District: Coos

Date: February 09, 2011

comments: Pond Values Used: 4th Quarter Calendar Year 2010.

Regeneration harvest of approximately 61 total acres (53 acres of 125 year old Douglas-fir sawtimber, 7 acres of 40 year old Douglas-fir/red alder mature mix, and 1 acre road right-of-way).

Western Redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost.

$\$757.94/\text{MBF} = \$935/\text{MBF} - \$177.06/\text{MBF}$

SCALING COST ALLOWANCE = \$5.00/MBF

FUEL COST ALLOWANCE = \$3.00/Gallon

HAULING COST ALLOWANCE

Hauling costs equivalent to \$700 daily truck cost.

Other Costs (with Profit & Risk to be added):

FELLING:

Directional Felling/Tree Jacking: $\$2/\text{MBF} \times 250 \text{ MBF} = \500

YARDING AND LOADING:

Brand and Paint Logs: $\$1/\text{MBF} \times 3,491 \text{ MBF} = \$3,491$

Slash Piling/Cull Sorting on Landings: $\$125/\text{landing} \times 5 \text{ landings} = \625

Rig Lift Trees: $\$100/\text{lift tree} \times 4 \text{ lift trees} = \400

Artificial Guy Anchors: $\$500/\text{anchor} \times 1 \text{ anchor} = \500

Log Placement into Kelly Creek: $\$845/\text{crossing} \times 10 \text{ crossings} = \$8,450$

Cover Landing Slash Piles w/sheeting: $\$50/\text{pile} \times 5 \text{ piles} = \250

MISCELLANEOUS COSTS:

Safety Flaggers on 8000 Road: $\$150/\text{day} \times 4 \text{ days} = \600

Tree Topping @ 60 feet+ : $\$100/\text{tree} \times 15 \text{ trees} = \$1,500$

Tree Girdling @ 60 feet+ : $\$150/\text{tree} \times 15 \text{ trees} = \$2,250$

Equipment Move Between Areas: $\$125/\text{hour} \times 14 \text{ hours} = \$1,750$

TOTAL Other Costs (with Profit & Risk to be added) = \$20,316

Other Costs (No Profit & Risk added):

None.



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Kelly Slim Cougar
Sale 341-11-57

District: Coos

Date: February 09, 2011

logging conditions

combination#: 1 Douglas - Fir 100.00%
 Western Hemlock / Fir 100.00%
 Alder (Red) 100.00%

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: 12.0 **bd. ft / load:** 4,800

cost / mbf: \$64.12

machines: Log Loader (A)
 Tower Yarder (Large)



Timber Sale Appraisal
 Kelly Slim Cougar
 Sale 341-11-57

"STEWARDSHIP IN FORESTRY"

District: Coos

Date: February 09, 2011

logging costs

Operating Seasons:	1.00	Profit Risk:	10.00%
Project Costs:	\$188,112.00	Other Costs (P/R):	\$20,316.00
Slash Disposal:	\$0.00	Other Costs:	\$0.00

Miles of Road

Road Maintenance: \$0.00

Dirt	Rock (Contractor)	Rock (State)	Paved
1.0	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	4.0
Alder (Red)	\$0.00	2.0	3.5

Local Pond Values

Date	Specie	Grade	Value
2/9/11	Alder (Red)	2S 12"+	\$550.00
2/9/11	Alder (Red)	3S 10" - 11"	\$480.00
2/9/11	Alder (Red)	4S 8" - 9"	\$430.00
2/9/11	Alder (Red)	6" - 7"	\$310.00



Timber Sale Appraisal
 Kelly Slim Cougar
 Sale 341-11-57

"STEWARDSHIP IN FORESTRY"

District: Coos

Date: February 09, 2011

logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas - Fir									
\$64.12	\$1.70	\$1.26	\$69.60	\$5.82	\$14.25	\$0.00	\$5.00	\$0.00	\$161.75
Western Hemlock / Fir									
\$64.12	\$1.70	\$1.26	\$83.52	\$5.82	\$15.64	\$0.00	\$5.00	\$0.00	\$177.06
Alder (Red)									
\$64.12	\$1.78	\$1.26	\$100.00	\$5.82	\$17.30	\$0.00	\$5.00	\$0.00	\$195.28

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$489.91	\$328.16	\$0.00
Western Hemlock / Fir	\$0.00	\$405.47	\$228.41	\$0.00
Alder (Red)	\$0.00	\$483.61	\$288.33	\$0.00



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Kelly Slim Cougar
Sale 341-11-57

District: Coos

Date: February 09, 2011

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	3,251	\$328.16	\$1,066,848.16
Western Hemlock / Fir	107	\$228.41	\$24,439.87
Alder (Red)	133	\$288.33	\$38,347.89

Gross Timber Sale Value

Recovery: \$1,129,635.92

Prepared by: Jon Haynes

Phone: 541-267-1758

Summary of "Other Costs" for Timber Sale Appraisals

Sale Name: Kelly Slim 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>
Felling				
Locate Corridors and Skid Roads	MBF		\$ 5.00	\$ -
Select Trees and Fall to Lead	MBF		\$ 5.00	\$ -
Small Tree Volume Cost addition	MBF	0	\$ 10.00	\$ -
Directional Felling/Tree Jacking	MBF	250	\$ 2.00	\$ 500.00
Felling of unmerch material	acre	0	\$ 80.00	\$ -
Yarding and Loading				
Clear chute at cable settings	MBF		\$ 3.00	\$ -
Brand and paint logs	MBF	3491	\$ 1.00	\$ 3,491.00
Cull sorting/slash piling on landings	landing	5	\$ 125.00	\$ 625.00
Rig lift trees	lift tree	4	\$ 100.00	\$ 400.00
Artificial guy anchors(dozer, skidder)	anchor	1	\$ 500.00	\$ 500.00
Log placement into streams (Exhibit I)	crossing	10	\$ 845.00	\$ 8,450.00
Cover landing slash pile w/sheeting	pile	5	\$ 50.00	\$ 250.00
Skid Road Layout	MBF		\$ 5.00	\$ -
Non required Road Construction	Stations			\$ -
Miscellaneous Costs				
Additional fire equipment	Seasons	0	\$ 2,000.00	\$ -
Maintenance rock (Section 2130)	yards	0	\$ 25.00	\$ -
Safety Flaggers (8000 Road)	per day	4	\$ 150.00	\$ 600.00
Tree topping @ 60 feet +	per tree	15	\$ 100.00	\$ 1,500.00
Tree girdling @ 60 feet +	per tree	15	\$ 150.00	\$ 2,250.00
Tree girdling @ DBH	per tree	0	\$ 75.00	\$ -
Equipment move between areas	per hr	14	\$ 125.00	\$ 1,750.00
Equipment time for pullback & cleanup	per hr	0	\$ 100.00	\$ -

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

\$ 20,316.00



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		\$ 2.00	\$ -

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

\$ -

NET VOLUMES AND ACREAGE

Kelly Slim Cougar

SALE AREA & SPECIES		Tree cnt. 100% Units	NET VOLUMES (MBF)							
			By County and Fund						Total Vols.	Vol. per Acre
			Coos			Douglas				
Areas	Spec		FRA	FDF	Total	FRA	FDF	Total		
1 - 4	D-fir		3251		3251			0	3251	53.3
	Hem		107		107			0	107	1.8
	Hdwd		133		133			0	133	2.2
TOTALS			3491	0	3491	0	0	0	3491	

TOTAL SALE VOLUME BY SPECIES

Douglas-fir	3251	MBF
Hemlock	107	MBF
Hdwd	133	MBF

Report by: J. Haynes

Date: 12/06/2010

Unit For: Plan Green 12/20/2010
Date

Asst. Dist. For: Monroe 12/22/10
Date

**EXISTING INTERIOR ROAD ACREAGE DEDUCTED.
NO INGROWTH INCLUDED.**

NET HARVEST ACREAGE BY COUNTY (to nearest acre)

Sale Area	Coos County						Douglas County						TOTAL ACRES
	FRA			FDF			FRA			FDF			
	Conifer cc	pc	Hard wood	Conifer cc	pc	Hard woods	Conifer cc	pc	Hard woods	Conifer cc	pc	Hard woods	
1 - 3	60												60
4 (R-O-W)	1												1
SUM	61	0	0	0	0	0	0	0	0	0	0	0	61

cc- clearcut

pc- partial cut

FDF- Forest Development Fund

FRA- Forest Revenue Account

SUMMARY OF CONSTRUCTION COST
Kelly Slim Cougar

Project 1A: Road and Landing Construction

Points: A to B Length: 290' Type: 14' w/ditch

Excavator	50	hrs at	\$125.00	per hour	\$6,250.00
Cat time - road construction, waste area	50	hrs at	\$120.00	per hour	\$6,000.00
Dump Truck - haul waste to Point I	40	hrs at	\$95.00	per hour	\$3,800.00
Dump Truck - haul waste to Point I (approx. 4250 yds, 1.8 mi RT)	40	hrs at	\$95.00	per hour	\$3,800.00
Dump Truck - haul rootwads to Point G	5	hrs at	\$95.00	per hour	\$475.00
Drill & Shoot	15	hrs at	\$300.00	per hour	\$4,500.00
Grader	1	hrs at	\$75.00	per hour	\$75.00
Laborer	50	hrs at	\$35.00	per hour	\$1,750.00

Total Project 1A: \$26,650.00

Project 1B: Road and Landing Construction

Point: D to E Length: 270' Type: 14' w/ditch

Excavator	60	hrs at	\$125.00	per hour	\$7,500.00
Cat time - road construction, waste area	60	hrs at	\$120.00	per hour	\$7,200.00
Dump Truck - haul waste to Point I	50	hrs at	\$95.00	per hour	\$4,750.00
Dump Truck - haul waste to Point I (approx. 4575 yds, 2.5 mi RT)	50	hrs at	\$95.00	per hour	\$4,750.00
Dump Truck - haul rootwads to Point G	5	hrs at	\$95.00	per hour	\$475.00
Drill & Shoot	15	hrs at	\$300.00	per hour	\$4,500.00
Grader	1	hrs at	\$75.00	per hour	\$75.00
Laborer	60	hrs at	\$35.00	per hour	\$2,100.00
18" Culvert Installation	40	feet at	\$17.00	per foot	\$680.00
Culvert Bands	1	bands at	\$19.00	per band	\$19.00

Total Project 1B: \$32,049.00

Project 1C: Landing Re-Construction

Point: C Length: n/a Type: n/a

Excavator	10	hrs at	\$125.00	per hour	\$1,250.00
Cat time	15	hrs at	\$120.00	per hour	\$1,800.00
Dump Truck - haul waste to Point I	10	hrs at	\$95.00	per hour	\$950.00
Dump Truck - haul rootwads to Point G	5	hrs at	\$95.00	per hour	\$475.00
Drill & Shoot - shoot big rock	10	hrs at	\$300.00	per hour	\$3,000.00
Grader	1	hrs at	\$75.00	per hour	\$75.00
Laborer	10	hrs at	\$35.00	per hour	\$350.00

Total Project 1C: \$7,900.00

Project 1D: Landing Construction

Point: F Length: n/a Type: n/a

Excavator	5	hrs at	\$125.00	per hour	\$625.00
Cat time	5	hrs at	\$120.00	per hour	\$600.00
Laborer	5	hrs at	\$35.00	per hour	\$175.00

Total Project 1D: \$1,400.00

SUMMARY OF CONSTRUCTION COST

Kelly Slim Cougar

Project 1E: Waste Area Preparation

Points: H to I Length: 485' Type: 14' no ditch

Excavator - remove brush, prep area	5	hrs at	\$125.00	per hour	\$625.00
Cat time	5	hrs at	\$120.00	per hour	\$600.00

Total Project 1E: \$1,225.00

Project 1F: Road and Landing Construction

Point: O to P Length: 775' Type: 14' no ditch

Excavator	20	hrs at	\$125.00	per hour	\$2,500.00
Cat time	20	hrs at	\$120.00	per hour	\$2,400.00
Grader	1	hrs at	\$75.00	per hour	\$75.00
Laborer	20	hrs at	\$35.00	per hour	\$700.00

Total Project 1F: \$5,675.00

Project 1G: Road and Landing Construction

Points: Q to R Length: 950' Type: 14' no ditch

Excavator	30	hrs at	\$125.00	per hour	\$3,750.00
Cat time	30	hrs at	\$120.00	per hour	\$3,600.00
Dump Truck	10	hrs at	\$95.00	per hour	\$950.00
Drill and Shoot	10	hrs at	\$250.00	per hour	\$2,500.00
Grader	1	hrs at	\$75.00	per hour	\$75.00
Laborer	30	hrs at	\$35.00	per hour	\$1,050.00

Total Project 1G: \$11,925.00

Project 1H: Road and Landing Construction

Points: S to T Length: 430' Type: 14' no ditch

Excavator	10	hrs at	\$125.00	per hour	\$1,250.00
Cat time	10	hrs at	\$120.00	per hour	\$1,200.00
Grader	1	hrs at	\$75.00	per hour	\$75.00
Laborer	10	hrs at	\$35.00	per hour	\$350.00

Total Project 1H: \$2,875.00

Move-in

Equipment	Miles	hrs/RT	Lowboy Rate/hr	Total
Excavator	40	5	\$95.00	\$475.00
Cat	40	5	\$95.00	\$475.00
Drill & Comp	40	5	\$95.00	\$475.00
Grader	40	4	\$95.00	\$380.00
Dump Truck	40	4	\$95.00	\$380.00
Dump Truck	40	4	\$95.00	\$380.00

SUMMARY OF CONSTRUCTION COST
Kelly Slim Cougar

Move Between

Lowboy to move equip between units	4	hrs at	\$95.00	per hour	\$380.00
Grader move between units	0.5	hrs at	\$75.00	per hour	\$37.50
Dump Truck move between units	0.5	hrs at	\$95.00	per hour	\$47.50

Total Move-in: \$3,030.00

Project 1 Total \$92,729.00

Project 2: Road Improvement

Points: N to O Length: 3030' Type: 14' no ditch

Excavator	10	hrs at	\$125.00	per hour	\$1,250.00
Cat time	20	hrs at	\$120.00	per hour	\$2,400.00
Grader time	4	hrs at	\$75.00	per hour	\$300.00
Laborer	20	hrs at	\$35.00	per hour	\$700.00

Project 2 Total \$4,650.00

Project 3A: Road Surfacing

Points: A to B Length: 150'
 Rock Type: 4"-0" and 2 1/2"-0" Hard Crushed Quarry
 Depth: 5" compacted each 4"-0" and 2 1/2"-0", 12' wide road surface
 Volume: 29.2 yds/STA each 4"-0" and 2 1/2"-0"

4"-0" Rock (3.1 hr RT) to re-load at Pt C	50	yards at	\$26.02	per yd	\$1,301.00
2 1/2"-0" Rock (3.1 hr RT) to re-load at Pt C	50	yards at	\$26.02	per yd	\$1,301.00
Re-load rock and haul to spur	100	yards at	\$2.00	per yd	\$200.00
Processing (Grader and Roller)	100	yards at	\$1.50	per yd	\$150.00

Points: D to E Length: 200'
 Rock Type: 4"-0" and 2 1/2"-0" Hard Crushed Quarry
 Depth: 5" compacted each 4"-0" and 2 1/2"-0", 12' wide road surface
 Volume: 29.2 yds/STA each 4"-0" and 2 1/2"-0"

4"-0" Rock (3.1 hr RT) to re-load at Pt C	60	yards at	\$26.02	per yd	\$1,561.20
2 1/2"-0" Rock (3.1 hr RT) to re-load at Pt C	60	yards at	\$26.02	per yd	\$1,561.20
Re-load rock and haul to spur	120	yards at	\$2.00	per yd	\$240.00
Processing (Grader and Roller)	120	yards at	\$1.50	per yd	\$180.00

Point: C Length: 260'
 Rock Type: 4"-0" and 2 1/2"-0" Hard Crushed Quarry
 Depth: 5" compacted each 4"-0" and 2 1/2"-0", 12' wide road surface
 Volume: 29.2 yds/STA each 4"-0" and 2 1/2"-0"

4"-0" Rock (3.1 hr RT)	90	yards at	\$26.02	per yd	\$2,341.80
2 1/2"-0" Rock (3.1 hr RT)	90	yards at	\$26.02	per yd	\$2,341.80
Processing (Grader and Roller)	180	yards at	\$1.50	per yd	\$270.00

SUMMARY OF CONSTRUCTION COST

Kelly Slim Cougar

Points: Landings at B, C, E and F
 Rock Type: Jaw Run
 Amount: 90 yds/landing

Jaw Run Rock (3.1 hr RT) to re-load at Pt C	360	yards at	\$26.02	per yd	\$9,367.20
Re-load rock and haul to landings at B, E, F	270	yards at	\$2.00	per yd	\$540.00
Processing (Grader and Roller)	360	yards at	\$1.50	per yd	\$540.00

Move-in

Equipment	Miles	hrs	Lowboy Rate/hr	Total
Grader	40	4	\$95.00	\$380.00
Roller	40	4	\$95.00	\$380.00
Loader	40	4	\$95.00	\$380.00

Total Move-in \$1,140.00

Total Project 3A \$23,036.00

Project 3B: Road Surfacing

Point: J to K Length: 5940'
 Rock Type: 2 1/2"-0" Hard Crushed Quarry
 Depth: 4" compacted, 12' wide road surface
 Volume: 23.1 yds/STA

2 1/2"-0" Rock (3.1 hr RT)	1404	yards at	\$26.02	per yd	\$36,532.08
Processing (Grader and Roller)	1404	yards at	\$1.50	per yd	\$2,106.00

Point: L to M Length: 3365'
 Rock Type: 2 1/2"-0" Hard Crushed Quarry
 Depth: 4" compacted, 12' wide road surface
 Volume: 23.1 yds/STA

2 1/2"-0" Rock (3.3 hr RT)	792	yards at	\$26.91	per yd	\$21,312.72
Processing (Grader and Roller)	792	yards at	\$1.50	per yd	\$1,188.00

Total Project 3B \$61,139.00

Project 3C: Road Surfacing

Points: 7650 Road (Points F to K)

2 1/2" rock for maintenance on Haul Route for after road construction and log hauling (3.1 hr RT)	252	yards at	\$26.02	per yd	\$6,557.04
---	-----	----------	---------	--------	------------

Total Project 3C \$6,558.00

Project 3 Total \$90,733.00

Total Project Costs \$188,112.00

TIMBER SALE SUMMARY

Kelly Slim 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 total sale area is approximately 61 acres divided into three separate sale areas and a road right-of-way. Sale acreage was determined from electronic digitizing using the ArcView GIS program. The cruise expansion acres include only the timbered acres and not existing interior roads or non-stocked areas.

	Posted Acres	Interior Road Acres	Non-Stocked Acres	Net Cruise Acres	Net Harvest Acres
Area 1	35.8	2.3	1.75	31.8	33.6
Area 2	6.7		.25	6.5	6.7
Area 3	20.1		.25	19.9	20.1
Area 4 R-O-W	1.0			1.0	1.0
Total	63.6	2.3	2.25	59.1	61.3

5. Volume by Species, Fund and County. See Attached table.

6. Grade: (by Percent,)

Species	3 Peeler %	Special Mill %	2 Saw (12"+) %	3 Saw %	10"-11" % Hardwood	8"- 9" % Hardwood	6"-7" % Hardwood
Douglas-fir	6 %	5 %	69 %	20 %			
Hemlock		15 %	27 %	58 %			
Hardwoods			41 %	37 %		10 %	12 %

7. Cruise: The sale areas were variable plot cruised using a nested Big BAF plot method. The Big BAF method is a combination of count plots and individually measured trees. On Area 1 the plots were spaced 90 feet apart on cruise lines spaced 330 feet (4 chains) apart in the mature timber type and 165 feet (2.5 chains) apart in the younger type. On Areas 2 and 3 the plots were spaced 132 feet apart on cruise lines spaced 420 feet apart. A 360 BAF full plot at 16 feet was taken in the mature type and a 90 BAF full plot at 16 feet was taken in the younger type to determine which Douglas-fir trees would be fully measured. A total of 52 mature Douglas-fir trees and 21 young 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 for all species. Minor species were measured on every third plot. A total of 66 count plots were installed. Area 4 road right-of-way was 100 percent cruised. Cruise data was gathered using the Superace cruising technique. Cruising was done by ODF staff in Area 1 in July/August 2010, in Areas 2 and 3 in December 2008, and in Area 4 right-of-way in December 2010.

A. Summary data (Areas 1 - 3):

Diam	Ht. Stand	Form Pt.	Form Factor	CV %	SE %
D4H	6" DIB	All species: 16'	Recorded for all cruised trees by estimate and measure	62 %	7.3 %

B. Defect and Breakage Summary (Areas 1- 4):

BY PERCENT

SPECIES	CRUISED DEFECT	HIDDEN DEFECT	BREAKAGE	TOTAL %
DOUGLAS FIR	2	6	7	15
HEMLOCK	0	7	7	14
HARDWOODS	0	8	7	15

C. Stand Data (Areas 1 - 3):

SPECIES	DBH	TREES/ACRE	BASAL AREA/AC	NET MBF/ACRE
DOUGLAS FIR	24	78	239	53.3
HEMLOCK	18	8	14	1.8
HARDWOODS	19	17	22	2.2

Stand Data (Area 4 right-of-way)

SPECIES	AVE. DBH	TOTAL TREES	TOTAL BASAL AREA	TOTAL NET MBF
DOUGLAS FIR	24	15	94	29.5

D. Green Tree Retention: There are fifteen (15) green tree reserve areas associated with this sale that are reserved from cutting. These areas consist of perennial stream buffer extensions and intermittent stream buffers posted out of the sale boundary. These areas were not included in the cruise. There are some individual leave trees located in some rocky outcroppings along the NW boundary of Area 2. These trees were painted in either red or blue and have been removed from the cruise. The table below summarizes the green tree retention areas and the volume that has been removed from the cruise.

GTR Area	D-fir Count	D-fir MBF removed from cruise	Hemlock/ Cedar Count	Hemlock/ Cedar MBF removed from cruise	Hdwd Count	Hdwd MBF removed from cruise
Perennial Stream Buffer Extensions	231	0	22	0	54	0
Seasonal Drainages / Scattered Upland	110	5	9	0	54	0
TOTALS	341	5	31	0	108	0

8. Timber Description: The total sale area is 61 acres and consists of 53 acres of medium stocked 125 year old Douglas fir mature second growth sawtimber, 7 acres of medium stocked 40 year old Douglas-fir/ hardwood mix, and a 1 acre road right of way. The mature portion also contains a minor understory of western hemlock and small patches of mature red alder and bigleaf maple. Timber quality is average to good.

9. Topography: Area 1 is primarily east facing with steep slopes over 70 percent. The eastern boundary of Area 1 runs along Kelly Creek, a small Type F stream, and there is 1 (one) Type N perennial and 7 (seven) Type N seasonal streams originating within Area 1. Both Areas 2 and 3 are primarily southeast facing with slopes over 50 percent and both border the West Fork Millicoma River. Area 2 borders a Type N perennial and has a Type N seasonal originating inside. Area 3 also borders a Type N perennial and has 2 (two) Type N perennials originating inside.

10. Logging Method: Area 1 is designed for winter operation and Areas 2, 3, and 4 are designed for dry season operation. The sale areas are designed to be cable logged uphill from new landings at Points B, E, F, P, R, and T and from an existing landing at Point C. New road spurs will be built from from Points A to B, D to E, O to P, Q to S, S to T, and S to R. Existing road spurs from Points N to O and an endhaul disposal site from H to I will be improved. Full suspension will be required while yarding over posted stream buffers and drainages. Single end suspension will be maintained over

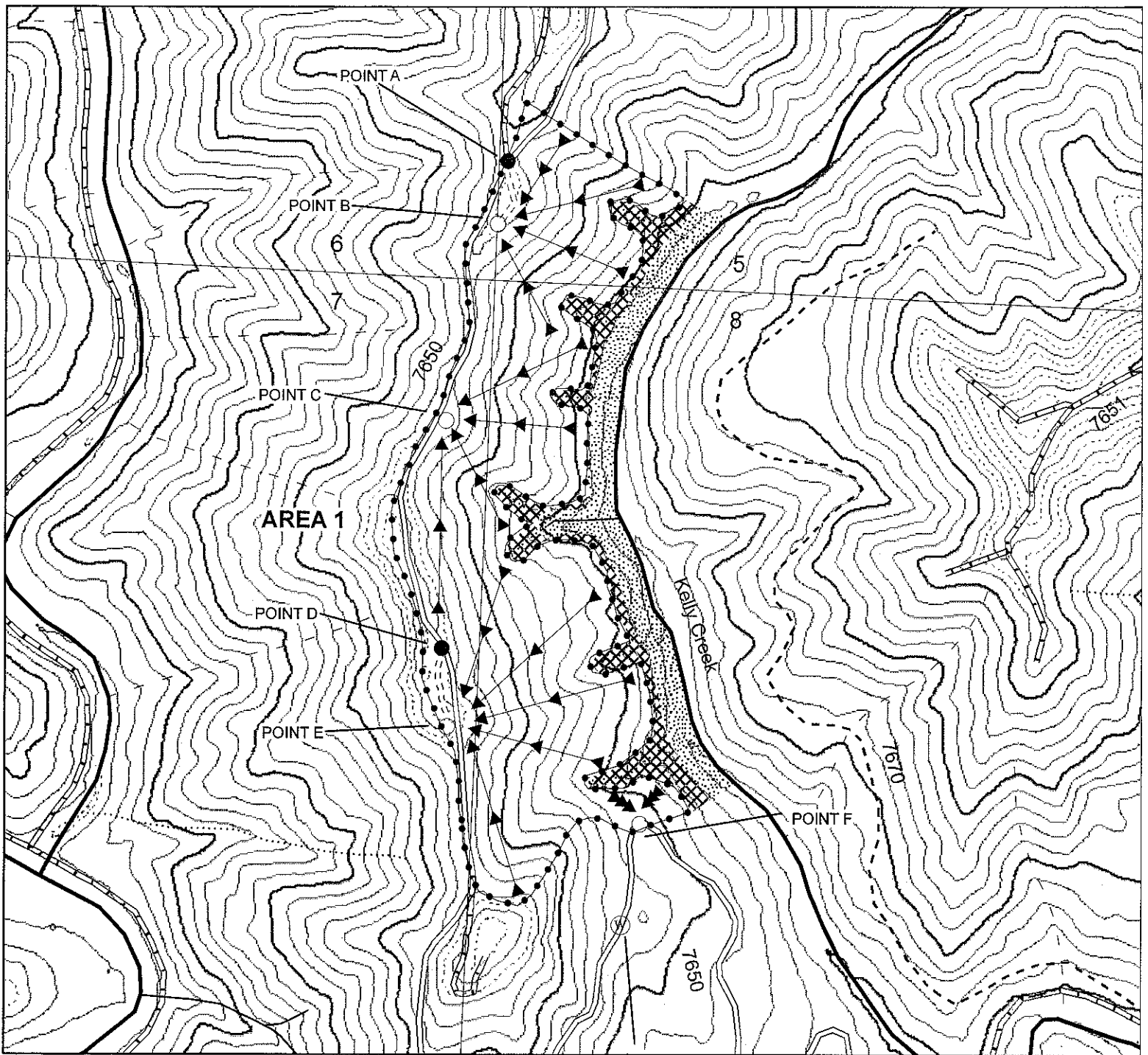
the remainder of the sale areas. Area 1 abuts the Fish Knife Marbled Murrelet Management Area (MMMA) along the west and approximately 19 acres or about 57 percent of Area 1 is within 300 feet of said MMMA and will be seasonally restricted. Both Area 2 and 3 are further than 300 feet from any MMMA and will not be seasonally restricted for murrelets. However, seasonal operating restrictions for blasting will be imposed in all Areas due to proximity to MMMA's and northern spotted owl activity centers. In addition, all felling of timber in all Areas must be completed by December 31, 2011.

11. Access: To access the timber sale from the west take North Lake Road out of Lakeside for 4.2 miles to the 4000 road (Benson Ridge Road). Follow the 4000 road for approximately 7.0 miles to the 4900 road. Continue on the 4900 for a short distance to the 2000 road. Follow the 2000 road south for approximately .5 miles to the 8000 road. Follow the 8000 road downhill and parallel to the West Fork Millicoma River for approximately 6.7 miles to the 7650 road (Point M). Area 1 is located approximately 1.4 miles up the 7650 road. To access Areas 2 and 3 continue on the 8000 road for another .9 miles to the 7600 road. Turn left onto the 7600 and proceed for approximately 650 feet to the 7610 road grade. Walk in the 7610 road grade for approximately ½ mile to Point Q. The right-of-way into Area 3 begins at Point Q. Continue on another 300 feet to Point O. The right-of-way into Area 2 begins at Point O.

12. Projects: See attached "Project Cost Summary Sheet"

Projects No. 1: Road and Landing Construction

Project No. 2: Road Surfacing



- Timber Sale Boundary
- Road Construction
- Existing Roads - STATE Maintained
- Existing Roads - Purchaser Maintained
- Landing
- Point for Project Work
- Waste Area
- Type F Perennial Streams
- Type N Perennial Streams
- Type N Seasonal Streams
- Type N Unclassified Stream
- Streambuffers
- Green Tree Retention Group
- Individual Green Tree Retention

LOGGING PLAN - AREA 1

OF TIMBER SALE CONTRACT NO.

341-11-57

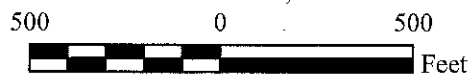
KELLY SLIM COUGAR

PORTIONS OF SECTIONS 5, 6, 7, & 8

T23S, R10W, WM.

COOS COUNTY, OR

SALE AREA	NET ACRES
1	34
2	6
3	20
4 R-O-W	1
TOTAL	61

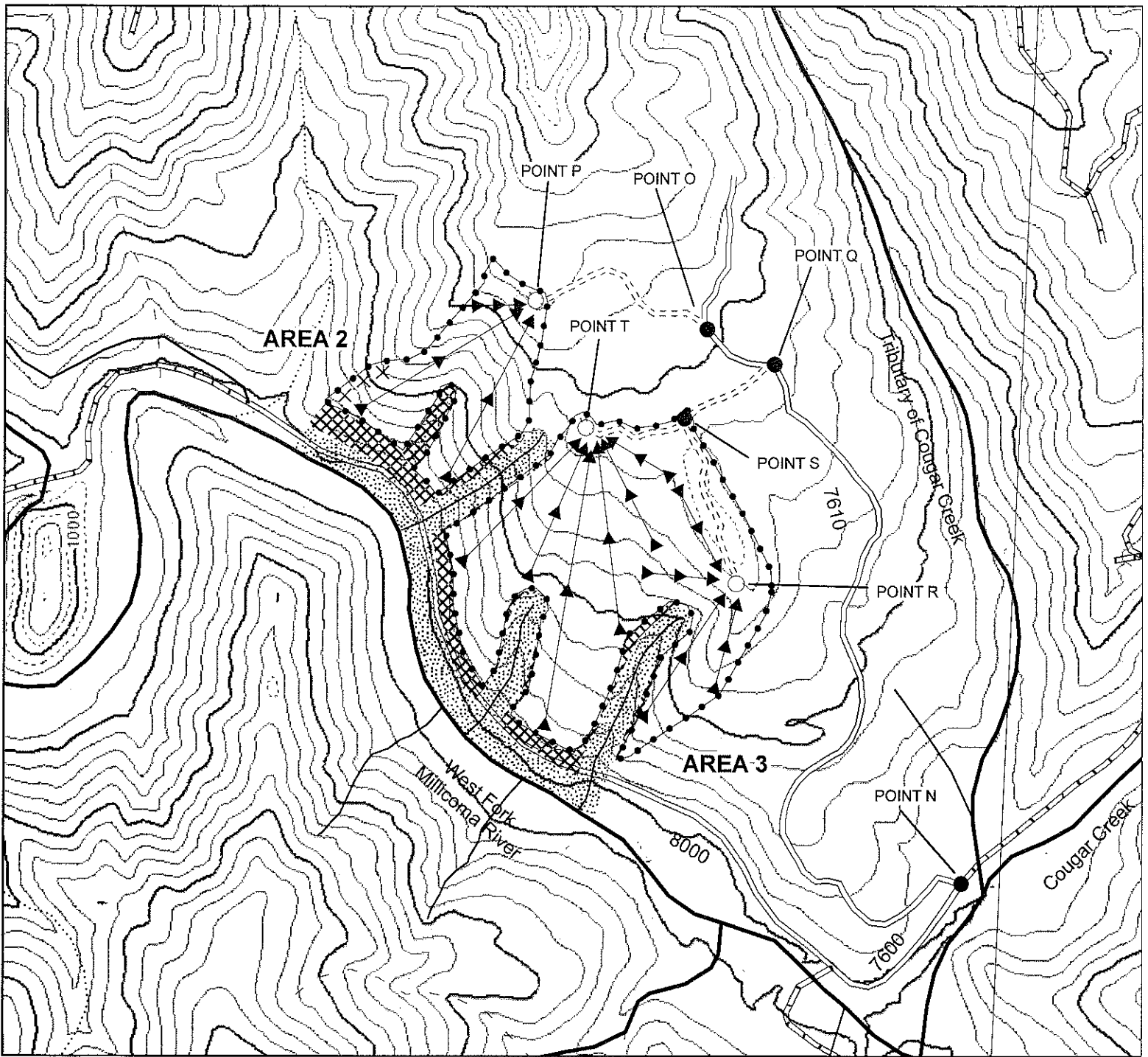


APPROX. SCALE: 1" = 500 FEET

40 FOOT CONTOURS FROM LIDAR IMAGERY

This product is for informational use and may not have been prepared for, or suitable for legal, engineering, or surveying purposes.





- Timber Sale Boundary
- Road Construction
- Existing Roads - STATE Maintained
- Existing Roads - Purchaser Maintained
- Landing
- Point for Project Work
- Waste Area
- Type F Perennial Streams
- Type N Perennial Streams
- Type N Seasonal Streams
- Type N Unclassified Stream
- Streambuffers
- Green Tree Retention Group
- Individual Green Tree Retention

LOGGING PLAN - AREA 2 AND 3

OF TIMBER SALE CONTRACT NO.

341-11-57

KELLY SLIM COUGAR

PORTIONS OF SECTIONS 5, 6, 7, & 8

T23S, R10W, WM.

COOS COUNTY, OR

500 0 500

Feet

APPROX. SCALE: 1" = 500 FEET

40 FOOT CONTOURS FROM LIDAR IMAGERY

This product is for informational use and may not have been prepared for, or suitable for legal, engineering, or surveying purposes.

SALE AREA	NET ACRES
1	34
2	6
3	20
4 R-O-W	1
TOTAL	61

