



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Green 10
Sale 341-15-74

District: Western Lane

Date: December 02, 2014

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$749,694.67	\$3,820.31	\$753,514.98
		Project Work:	\$(139,386.00)
		Advertised Value:	\$614,128.98



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timber description

Location: Portions of Section 10, T16S, R8W, W.M., Lane County, Oregon.

Stand Stocking: 60%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	15	0	97
Western Hemlock / Fir	12	0	97
Alder (Red)	18	0	96

Volume by Grade	2S	3S	4S	Camprun	Total
Douglas - Fir	724	913	234	0	1,871
Western Hemlock / Fir	135	682	234	0	1,051
Alder (Red)	0	0	0	13	13
Total	859	1,595	468	13	2,935

comments: Pond Values Used: 3rd Quarter Calendar Year 2014.

Western redcedar and Other Cedars Stumpage Price = Pond Value
minus Logging Cost:
\$834.33/MBF = \$1,140/MBF - \$305.67/MBF

SCALING COST ALLOWANCE = \$5.00/MBF

FUEL COST ALLOWANCE = \$4.00/Gallon

HAULING COST ALLOWANCE

Hauling costs equivalent to \$780 daily truck cost.

Other Costs (with Profit & Risk to be added):
None.

Other Costs (No Profit & Risk added):
Final Road Maintenance = \$8,845
BLM Road Use Fee = \$6,813
TOTAL Other Costs (No Profit & Risk added) = \$15,658



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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:** No
logging system: Cable: Large Tower >=70 **Process:** Stroke Delimber

tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF
loads / day: 6.0 **bd. ft / load:** 4,000
cost / mbf: \$159.44

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



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logging costs

Operating Seasons:	2.00	Profit Risk:	20.00%
Project Costs:	\$139,386.00	Other Costs (P/R):	\$0.00
Slash Disposal:	\$0.00	Other Costs:	\$15,658.00

Miles of Road

Road Maintenance: \$0.00

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

Hauling Costs

Species	\$ / MBF	Trips/Day	MBF / Load
Douglas - Fir	\$0.00	2.0	4.0
Western Hemlock / Fir	\$0.00	2.0	3.5
Alder (Red)	\$0.00	2.0	3.5



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logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas - Fir									
\$159.44	\$0.00	\$2.99	\$83.69	\$0.00	\$49.22	\$0.00	\$5.00	\$5.33	\$305.67
Western Hemlock / Fir									
\$159.44	\$0.00	\$2.99	\$95.65	\$0.00	\$51.62	\$0.00	\$5.00	\$5.33	\$320.03
Alder (Red)									
\$159.44	\$0.00	\$2.99	\$96.57	\$0.00	\$51.80	\$0.00	\$5.00	\$5.33	\$321.13

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$613.21	\$307.54	\$0.00
Western Hemlock / Fir	\$0.00	\$485.86	\$165.83	\$0.00
Alder (Red)	\$0.00	\$615.00	\$293.87	\$0.00



Timber Sale Appraisal
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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	1,871	\$307.54	\$575,407.34
Western Hemlock / Fir	1,051	\$165.83	\$174,287.33
Alder (Red)	13	\$293.87	\$3,820.31

Gross Timber Sale Value

Recovery: \$753,514.98

Prepared by: Chad Howard

Phone: 541-935-2283

Summary of "Other Costs" for Timber Sale Appraisals

Green 10 (341-15-74)

"Other Costs" with Profit and Risk to be Added:

None

Total "Other Costs" with Profit and Risk to be Added:

\$0



"Other Costs" With No Additional Profit and Risk

	<u>Units</u>	<u>Quantity</u>	<u>Cost/Unit</u>	<u>Total Cost</u>
Final Road Maintenance	Operation			\$ 8,845
BLM Road Use Fee	Operation			\$ 6,813.40
Total "Other Costs" With No Additional Profit and Risk:				<u>\$ 15,659</u>
Cost per MBF	2,935	MBF		\$ 5.34

State Timber Sale Contract
Green 10
341-15-74

Road Brushing Costs

Roads	16-8-2	16-8-2.1	16-8-2.1	16-8-10	
					Total
Miles	4.6	0.67	0.6	1.9	7.77
Brushing Intensity	Light	Light	Medium	Medium	
Cost	\$ 1,150	\$ 1,150	\$ 1,650	\$ 1,650	
Total Cost	\$ 5,290	\$ 771	\$ 990	\$ 3,135	\$ 10,185

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Rocking and Compaction

Rock Source: Conser Quarry

Rock Quantity (Inplace)

Base Rock	SPUR 1	SPUR 1a	16-8-2	TOTAL
Rock Size	3"-0"	3"-0"	3"-0"	
Stations	32.00	18.00		50.00
Approx yds/sta	22	22		
Subtotal base (cu. yds)	704	396	0	1100
Cap Rock	SPUR 1	SPUR 1a	16-8-2	TOTAL
Rock Size	1 1/2"-0"	1 1/2"-0"	1 1/2"-0"	
Stations	32	18	34.7	85.00
Approx yds/sta	22	22	8.25	
Curve Widening (Yds)				
Spot Rocking			100	
Subtotal cap (cu. yds)	704	396	386	1486
Landings	SPUR 1	SPUR 1a	16-8-2	TOTAL
Rock Size	Jaw Run	Jaw Run	0	
Stations	1.00	3.00		4.00
Approx yds/sta	40	40		
Subtotal base (cu. yds)	40	120	0	160
Additional Rock	SPUR 1	SPUR 1a	16-8-2	TOTAL
Rock Size	3"-0"	0	0	
Turnouts and Turn-Arounds	3			
Approx cu. Yds per point	20			
Subtotal additional (cu. yds)	60	0	0	60
Energy Disipator Yds	SPUR 1	SPUR 1a		
Rock Size	Pit Run	Pit Run		
Approx Total (cu. Yds)	50	20		70

ROCK COST (Rock + Delivery)

Road Segment/Name	SPUR 1	SPUR 1a	16-8-2	TOTAL
Rock Size	3"-0"	3"-0"	3"-0"	
Approx cu. yds	704	396	0	1100
Cost/yd (includes load/spread)	\$24.60	\$24.60	\$24.60	
Subtotal Cost "Base" Rock	\$ 17,319	\$ 9,742	\$ -	\$ 27,061
Rock Size	1 1/2"-0"	1 1/2"-0"	1 1/2"-0"	
Approx cu. yds	704	396	386	1486
Cost/yd (includes load/spread)	\$25.28	\$25.28	\$25.28	
Subtotal Cost "Cap" Rock	\$ 17,795	\$ 10,009	\$ 9,764	\$ 37,568
Rock Size	3"-0"	0	0	
Approx cu. yds	60	0	0	60
Cost/yd (includes load/spread)	\$24.60	\$0.00	\$0.00	
Subtotal Cost "Additional" Rock	\$ 1,476	\$ -	\$ -	\$ 1,476
Rock Size	Pit Run	Pit Run	0	
Approx cu. yds	50	20	0	70
Cost/yd (includes load/spread)	\$24.33	\$24.33	\$0.00	
Subtotal Cost "Rip Rap" Rock	\$ 1,500	\$ 500	\$ -	\$ 2,000
Rock Size	Jaw Run	Jaw Run	\$ -	
Approx cu. yds	\$ 40	\$ 120	\$ -	160
Cost/yd (includes load/spread)	\$24.60	\$24.60	\$0.00	
Subtotal Cost "Landing" Rock	\$ 984	\$ 2,952	\$ -	\$ 3,936
Grand total quarry approx yds	1508	912	386.275	2806
Total Quarry Rock Cost	\$ 39,074	\$ 23,204	\$ 9,764	\$ 72,042
Compaction w/ Vibratory Roller	SPUR 1	SPUR 1a	16-8-2	TOTAL
Road Stations	32.00	18.00	34.70	85.00
Lifts	2	2	2	
Cost/Station	\$20.20	\$20.20	\$20.20	
Subtotal Compaction	\$ 1,293	\$ 727	\$ 1,402	\$ 3,422
\$/yd³ rock in place & compacted	SPUR 1	SPUR 1a	16-8-2	Total
Total Rock Costs	\$40,367	\$23,931	\$11,165.00	\$ 75,463

Move-in included in subgrade construction
Due to rounding, the numbers in the table above may not add up to the totals shown.

State Timber Sale Contract
Green 10
341-15-74

Subgrade Construction/Culverts
Processing and Decking Right-of-Way Logs Not Included

Totals	SPUR 1	SPUR 1a	16-8-2	TOTAL
Stations	32	18	148	198
Cost/Sta	\$ 821.85	\$ 1,068.98	\$ 24.30	
Cost	\$ 26,299.22	\$ 19,241.60	\$ 3,597.08	\$ 49,138.00

Earthwork

Clearing and Grubbing	SPUR 1	SPUR 1a	16-8-2	TOTAL
Acreage	2.94	1.65		
Cost/Acre	\$1,738.00	\$1,738.00	\$1,738.00	
Total	\$ 5,110	\$ 2,868	\$ -	\$ 7,978.00

Excavation yards are bank run from State's design

Construction/Excavation	SPUR 1	SPUR 1a	16-8-2	TOTAL
Stations	32	18		
Drift/Excavation Cu Yd	1800			
\$/sta	\$190.00	\$190.00	\$190.00	
Drift/Excavation \$/yd	\$2.10			
Landing Construction	\$389.00	\$778.00		
Subtotal	\$ 10,249	\$ 4,198	\$ -	\$ 14,447.00

End-haul Assumes 5% loss of endhaul material.

Cu Yd		2000	60	
\$/yd		\$4.30	\$9.50	
\$/Sta				
Subtotal	\$ -	\$ 8,600	\$ 570	\$ 9,170.00

Culverts

Alum. Steel 2-2/3" x 1/2"	SPUR 1	SPUR 1a	16-8-2	TOTAL
Length (ft)	270	80	30	380
Diameter (2-2/3" x 1/2")	18"	18"	18"	
Cost/Foot	\$ 15.23	\$ 15.23	\$ 15.23	
Subtotal	4112.1	1218.4	456.9	
Half Rounds	SPUR 1	SPUR 1a	16-8-2	
Length (ft)				0
Diameter (3" x 1")	18"	18"	18"	
Cost/Foot	\$ 12.18	\$ 12.18	\$ 12.18	
Subtotal	0	0	0	
Plastic	SPUR 1	SPUR 1a	16-8-2	
Length (ft)				
Diameter	18"	18"	18"	0
Cost/Foot	\$ 15.23	\$ 15.23	\$ 15.23	
Subtotal	0	0	0	
Culvert Material Cost	\$ 4,112	\$ 1,218	\$ 457	\$ 5,787.40
Installation Cost	\$ 4,298	\$ 1,300	\$ 479	\$ 6,076.00

* Aluminized Steel was used for costing purposes based on prices as of 12/20/12

Subgrade Treatment

Compaction w/ Roller	SPUR 1	SPUR 1a	16-8-2	TOTAL
Road Stations	64	36		100
Cost/STA	\$ 20.20	\$ 20.20	\$ 20.20	
Subtotal	\$ 1,293	\$ 727	\$ -	\$ 2,020

Grade and Shape	SPUR 1	SPUR 1a	16-8-2	TOTAL
Road Stations	32	18	68	
Cost/STA	\$ 18.35	\$ 18.35	\$ 30.76	
Subtotal	\$ 587	\$ 330	\$ 2,092	\$ 3,009

Geotextiles	SPUR 1	SPUR 1a	0	TOTAL
Amount (ft)	500			500
Cost/ft	\$ 1.30			
Subtotal	\$ 650			\$ 650

Move in Cost	Initial	Between Projects	
D-7 Cat	\$ 1,500		\$ 49,138.00
Dump Truck	\$ 500		
grader	\$ 500		\$ 4,600
excavator	\$ 1,500		
vibratory roller	\$ 500		\$ 53,738.00
water truck	\$ 100		
small excavator			

State Timber Sale Contract
341-15-74
Green 10

Final Road Maintenance Cost Summary

Totals	SPUR 1	SPUR 1a	16-8-2	TOTAL
Stations	32.00	18.00	148.00	
Cost/Sta	\$ 57.58	\$ 69.96	\$ 35.43	
Total Cost	1842.61	1259.207	5243.433	\$ 8,345

Spot Rocking	SPUR 1	SPUR 1a	16-8-2	TOTAL
Total Yds	30	20	100	
Rock Size	1 1/2"-0"	1 1/2"-0"	1 1/2"-0"	
\$/yd	\$25.28	\$25.28	\$25.28	
Subtotal	\$ 758	\$ 506	\$ 2,528	\$ 3,791

Grade,Shape & Pull Ditches	SPUR 1	SPUR 1a	16-8-2	TOTAL
Stations	32.00	18.00	148.00	
\$/STA	\$ 30.76	\$ 30.76	\$ 18.35	
Subtotal	\$ 984	\$ 554	\$ 2,716	\$ 4,254

Landing clean up	SPUR 1	SPUR 1a	16-8-2	TOTAL
Stations	1.00	2.00		
\$/STA	\$ 100.00	\$ 100.00		
Subtotal	\$ 100	\$ 200	\$ -	\$ 300

Install Metal Gate	SPUR 1	SPUR 1a	16-8-2	Total
Cost				

Move In	Initial	Between Proj.
Grader	\$ 500	
Vibratory Rollover		
D * Cat		
Excavator		
Dump Truck		

Move in costs associated with one entry for the entire project

Total Final Maintenance Costs	\$ 8,845
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Green 10
341-15-74
Combined Project Costs

Project 1	Construct and compact sub-grades for Spur 1 and Spur 1a.	\$50,141
Project 2	Improve 16-8-2 road between points A and I and spread rock.	\$14,762
Project 3	Spread and compact rock for Spur 1 and Spur 1a	\$64,298
Project 4	Conduct roadside brushing designated on Exhibit A	\$10,185
TOTAL PROJECT COSTS		\$139,386

Cruise Report

Green 10

SALE # 341-15-74

Sale Area: Portions of Section 10, T16S, R8W, W.M., Lane County, Oregon. The sales net harvestable acres are 83. There are 5 acres of stream buffers, approximately 2 acre of new road construction on ODF, and 5 acres of new road construction on BLM. Acres were determined by using a combination of aerial photos, GPS, GIS, and topographic maps.

Stand Description: Green 10 is a mixed species harvest unit dominated by Douglas-fir and Western Hemlock. The stand is variable between the uplands and draws. The uplands consist of scattered pockets of nice conifer and blocks of lower quality tightly spaced Hemlock. The draws consist of higher quality conifer composed primarily of Douglas-fir. The minor species consist of Western Red Cedar, Red Alder, and Big Leaf Maple. Red Alder exist in the scattered openings and gaps near the draws. The stands average DBH is 14". The average DBH for Douglas-fir is 15", and Western Hemlock being 12". Understory vegetation is light in the uplands and approaching moderate near the draws. The unit consists of 30-80% slopes. The terrain is convex with benches.

Cruise Method: The sale area was cruised in a grid pattern using a systematic variable radius plot sampling method. A Basal Area Factor of 33.61 was used. A total of 57 cruise plots were captured with an average of 8.6 trees per plot. Every tree was graded using the official rules for log scaling for the above species. 2 saw and 3 saw quality lumber favored 40' and 36' log lengths. Deductions for defect were estimated on a tree by tree basis. Logs that were not at least 12 feet in length and having at least 20 bf were not counted.

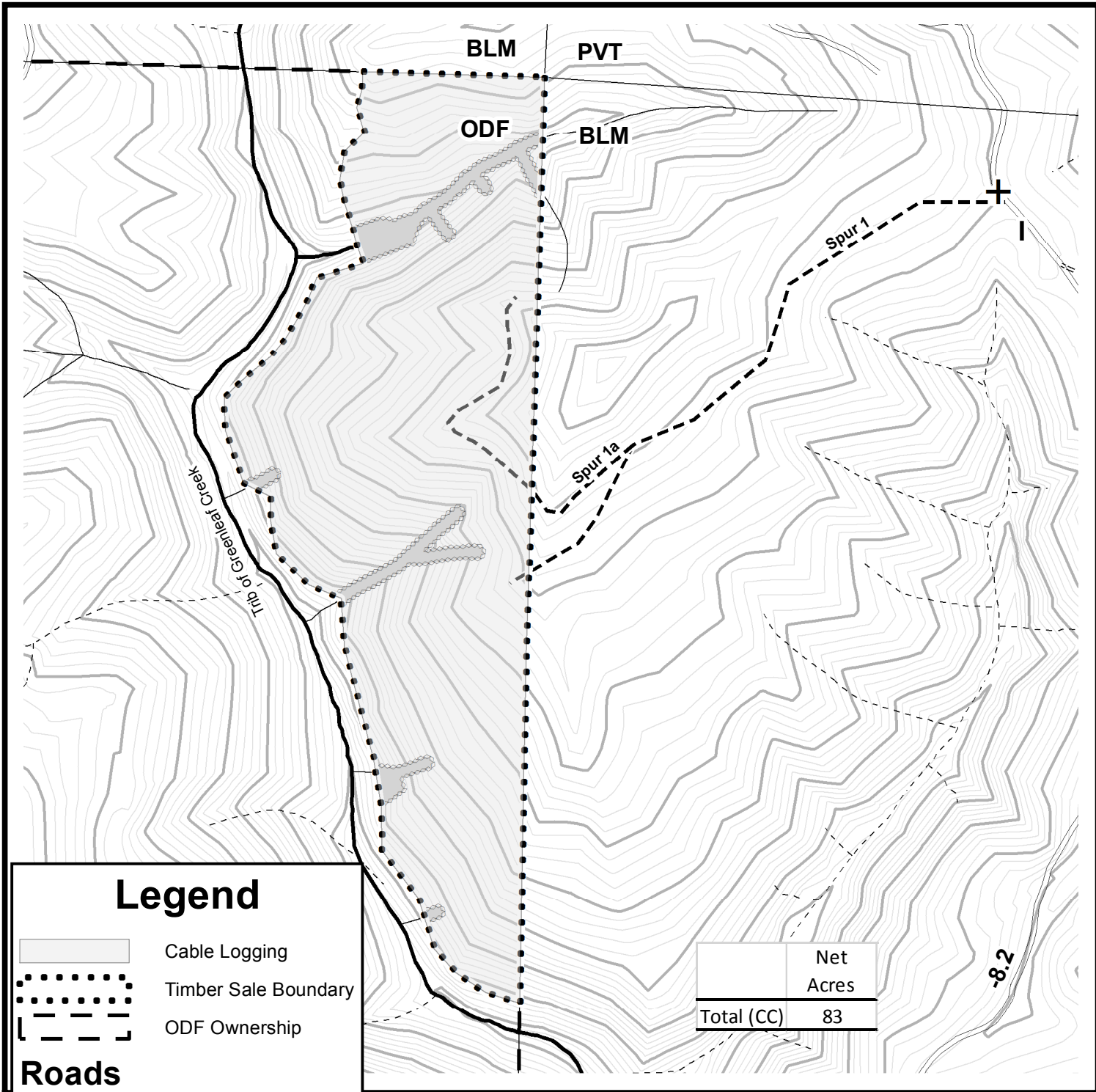
Cruiser: Chad Howard

Volume Table: Volumes were computed by using the Super Ace program.

	2 Saw (MBF)	3 Saw (MBF)	4 Saw (MBF)	Camp Run (MBF)	Sub-Total (MBF)
Douglas-fir	724	913	234		1871
Western Hemlock	135	682	234		1051
				13	13
Total (MBF)					2935

Due to rounding, the numbers in the table above may not add up to the totals shown.

Average BF/Acre = 35,354



Legend

- Cable Logging
- Timber Sale Boundary
- ODF Ownership

Roads

- Paved road
- Surfaced road
- Dirt road
- New Construction

Streams

- Fish
- Nonfish
- Unknown
- Posted Stream Buffer

Logging Plan Map

OF TIMBER SALE CONTRACT NO. 341-15-74
GREEN 10
PORTIONS OF SECTION 10, T16S, R8W, W.M.
LANE COUNTY, OREGON

Contours = 20'

0 330 660 1,320 Feet

1 inch = 660 feet



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