



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal  
Cram Cleanup  
Sale WL-341-2020-W00576-01

District: Western Lane

Date: March 23, 2020

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**Cost Summary**

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$322,030.80	\$0.00	\$322,030.80
		Project Work:	(\$26,019.74)
		Advertised Value:	\$296,011.06



# Timber Sale Appraisal Cram Cleanup Sale WL-341-2020-W00576-01

**District: Western Lane**

**Date: March 23, 2020**

## Timber Description

**Location:** Section 4 of T18S R7W W.M.

**Stand Stocking:** 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	29	0	97
Western Hemlock / Fir	20	0	97

Volume by Grade	2S	3S & 4S 6"-11"	Camprun	Total
Douglas - Fir	527	343	0	870
Western Hemlock / Fir	0	0	81	81
<b>Total</b>	527	343	81	951

**Comments:** Other Conifers Stumpage Price = Pond Value minus Logging Costs: \$149.30/MBF = \$445.18/MBF - \$295.88/MBF

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Costs: \$722.30/MBF = \$1,009.19/MBF - \$286.89/MBF

Red alder Stumpage Price= Pond Value minus Logging Costs: \$158.11/MBF = \$445.00/MBF - \$286.89/MBF

Other Hardwoods Stumpage Price = Pond Value minus Logging Costs: \$0MBF

Pulp Price (Conifer and Hardwood) Price = \$2.50/Ton

Conifer Utility SC & PC = \$80/MBF

Hauling Cost Allowance = equivalent to \$950 daily truck cost.

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

Other Costs (No Profit & Risk added) = \$4,473

TOTAL Other Costs (No Profit and Risk added) = \$4,473



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**Logging Conditions**

**Combination#: 1**                      Douglas - Fir                      78.00%  
   Western Hemlock / Fir                      78.00%

**Logging System:** Cable: Large Tower >=70                      **Process:** Manual Falling/Delimbing

**yarding distance:** Medium (800 ft)                      **downhill yarding:** No

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

**loads / day:** 8                      **bd. ft / load:** 4200

**cost / mbf:** \$202.38

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

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**Combination#: 2**                      Douglas - Fir                      22.00%  
   Western Hemlock / Fir                      22.00%

**Logging System:** Shovel                      **Process:** Manual Falling/Delimbing

**yarding distance:** Short (400 ft)                      **downhill yarding:** No

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

**loads / day:** 16                      **bd. ft / load:** 4000

**cost / mbf:** \$61.52

**machines:** Shovel Logger

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## Logging Costs

<b>Operating Seasons:</b> 1.00	<b>Profit Risk:</b> 10%
<b>Project Costs:</b> \$26,019.74	<b>Other Costs (P/R):</b> \$0.00
<b>Slash Disposal:</b> \$0.00	<b>Other Costs:</b> \$4,473.00

**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	3.0	4.2
Western Hemlock / Fir	\$0.00	3.0	3.8



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### Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
<b>Douglas - Fir</b>									
\$171.39	\$1.05	\$4.62	\$77.66	\$0.00	\$25.47	\$0.00	\$2.00	\$4.70	\$286.89
<b>Western Hemlock / Fir</b>									
\$171.39	\$1.05	\$4.62	\$85.83	\$0.00	\$26.29	\$0.00	\$2.00	\$4.70	\$295.88

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$643.14	\$356.25	\$0.00
Western Hemlock / Fir	\$0.00	\$445.18	\$149.30	\$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

**Unamortized**

Specie	MBF	Value	Total
Douglas - Fir	870	\$356.25	\$309,937.50
Western Hemlock / Fir	81	\$149.30	\$12,093.30

**Gross Timber Sale Value**

**Recovery:** \$322,030.80

**Prepared By:** John Enos

**Phone:** 541-935-0731

**"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			\$ 4,473
<b>Total "Other Costs" With No Additional Profit and Risk:</b>				<u><b>\$ 4,473</b></u>
<b>Cost per MBF</b>	950	MBF		<b>\$ 4.71</b>

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## Rocking and Compaction

Rock Source: Commercial

Rock Quantity (Inplace)		(3" - 0")	
<b>Base Rock</b>	Spur 1	Spur 1a	<b>TOTAL</b>
Rock Size	3"-0"	3"-0"	
Stations			0.00
Approx yds/sta			
<b>Subtotal base (cu. yds)</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Cap Rock</b>	Spur 1	Spur 1a	<b>TOTAL</b>
Rock Size	3/4"-0"	1 1/2"-0"	
Stations	46.35	5.2	51.00
Approx yds/sta	11	11	
<b>Subtotal cap (cu. yds)</b>	<b>510</b>	<b>60</b>	<b>570</b>
<b>Landings</b>	Spur 1	Spur 1a	<b>TOTAL</b>
Rock Size	Jaw Run	Jaw Run	
Stations	1.00	1.00	2.00
Approx yds/sta	40	40	
<b>Subtotal base (cu. yds)</b>	<b>40</b>	<b>40</b>	<b>80</b>
<b>Additional Rock</b>	Spur 1	Spur 1a	<b>TOTAL</b>
Rock Size	Jaw Run	Jaw Run	
Turnouts and Turn-Arounds	2	0	2.00
Approx cu. yds	20	20	
<b>Subtotal Tunouts/Around (cu. yds)</b>	<b>40</b>	<b>0</b>	<b>40</b>
<b>ROCK COST (Rock + Delivery)</b>			
<b>Road Segment/Name</b>	Spur 1	Spur 1a	<b>TOTAL</b>
Rock Size	3/4"-0"	1 1/2"-0"	
Approx cu. yds	510	60	570
Cost/yd (includes load/spread)	\$ 22.29	\$ 22.29	
<b>Subtotal Cost "Cap" Rock</b>	<b>\$ 11,367</b>	<b>\$ 1,337</b>	<b>\$ 12,704</b>
Rock Size	Jaw Run	Jaw Run	
Approx cu. yds <b>Tunouts/Arounds</b>	40	0	40
Cost/yd (includes load/spread)	\$ 19.42	\$ 19.42	
Subtotal	\$776.72	\$0.00	
Rock Size	3"-0"	3"-0"	
<b>Subtotal Cost "Additional" Rock</b>	<b>\$ 777</b>	<b>\$ -</b>	<b>\$ 777</b>
Approx cu. yds <b>Landing</b>			
Rock Size	Jaw Run	Jaw Run	
Approx cu. yds	40	40	80
Cost/yd (includes load/spread)	\$ 19.42	\$ 19.42	
<b>Subtotal Cost "Landing" Rock</b>	<b>\$ 777</b>	<b>\$ 777</b>	<b>\$ 1,554</b>
Grand total quarry approx yds	590	100	690
<b>Total Quarry Rock Cost</b>	<b>\$ 12,920</b>	<b>\$ 2,114</b>	<b>\$ 15,034</b>
<b>Compaction w/Processing (Stations)</b>	Spur 1	Spur 1a	<b>TOTAL</b>
Cost/cu. Yds	\$2.00	\$2.00	
<b>Subtotal Processing</b>	<b>\$ 1,180</b>	<b>\$ 200</b>	<b>\$ 1,380</b>
<b>\$/yd* rock in place &amp; compacted</b>	Spur 1	Spur 1a	<b>Total</b>
<b>Total Rock Costs</b>	<b>\$14,100</b>	<b>\$2,314</b>	<b>\$ 16,414</b>

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

<b>Totals</b>	Spur 1	Spur 1a	<b>TOTAL</b>
Stations	46.35	5.2	51
Cost/Sta	\$ 76.00	\$ 131.00	
<b>Cost</b>	<b>\$ 3,537.00</b>	<b>\$ 680.00</b>	<b>\$ 4,217.00</b>

**Earthwork**

<b>Clearing and Grubbing</b>	Spur 1	Spur 1a	<b>TOTAL</b>
Acreage	0.57		1
Cost/Acre	\$1,653.78	\$1,653.78	
<b>Total</b>	<b>\$ 943</b>	<b>\$ -</b>	<b>\$ 943.00</b>

Excavation yards are bank run from State's design

<b>Construction/Excavation</b>	Spur 1	Spur 1a	<b>TOTAL</b>
Stations	1	5.2	
Drift/Excavation Cu Yd w Fluff	53		
\$/sta	\$181.09		
Drift/Excavation \$/yd	\$2.72	\$2.72	
Landing Construction	\$481.17	\$481.17	
<b>Subtotal</b>	<b>\$ 807</b>	<b>\$ 482</b>	<b>\$ 1,289.00</b>

**Subgrade Treatment**

<b>Compaction w/ Roller Surface R</b>	Spur 1		<b>TOTAL</b>
Road Stations	1		1
Cost/STA	\$ 22.70	\$ 22.70	
<b>Subtotal</b>	<b>\$ 23</b>	<b>\$ -</b>	<b>\$ 23</b>

<b>Grade and Shape</b>	Spur 1	Spur 1a	<b>TOTAL</b>
Road Stations	46.35	5.2	
Cost/STA	\$ 38.05	\$ 38.05	
<b>Subtotal</b>	<b>\$ 1,764</b>	<b>\$ 198</b>	<b>\$ 1,962</b>

<b>Move in Cost</b>	Initial	Between Projects	
D-7 Cat	\$ 1,500		\$ 4,217.00
Dump Truck	\$ 200		
grader	\$ 500		<b>\$ 4,000</b>
small excavator			
vibratory roller	\$ 200		<b>\$ 8,217.00</b>
water truck	\$ 100		
large excavator	\$ 1,500		

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## Road Brushing Costs

Location	Spur 1	Spur 1a			
Point to Point/Satationing	0+00 to 46+35	0+00 to 5+20			
Miles	0.88	0.1			Total
Brushing Intensity	Light	Light to Medium		Light	
Cost/mile	\$ 1,150	\$ 1,350		\$ 1,150	
<b>Total Cost</b>	<b>\$ 1,012</b>	<b>\$ 135</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,147</b>

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State Timber Sale Contract

Cram Cleanup

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## End Haul For Road

Location	Exp. Factor	75 % Rock 25 % Earth		
		In Place	Truck	In Fill
1+40 to 3+54			1.31	1.12
			<b>0</b>	<b>0</b>
<b>Loose Truck Haul Total Cu. Yds.</b>			<b>91</b>	
<b>In-Fill Total Cu. Yds.</b>			<b>58</b>	

75% Earth 25% Rock		
In Place	Truck	In Fill
63.4	91	58
<b>63.4</b>	<b>90.662</b>	<b>58</b>

Summary					
<b>Total Loose Truck Haul Cu. Yds.</b>			<b>91</b>		
<b>Total End Haul Costs</b>			<b>\$ 241.74</b>		
<b>Avg Cost/ Cu. Yds.</b>			<b>\$ 2.67</b>		
Totals (80% of Earth Rock Mixture)	Location	Distance to Waste	Cost/yd	Haul Cost	
46	W.A. 1	0.09	\$ 2.67	\$	241.74
<b>46</b>		<b>Total Endhaul Cost</b>	<b>\$</b>	<b>241.74</b>	
		<b>Avg Cost/yd</b>	<b>\$</b>	<b>2.67</b>	

Note: Costing is based off an average haul speed of 10mph, **10 Cu. Yds. end dump trucks**, 1 excavator, Dump and Load time 5min/trip.

Waste Area Endhaul		
Hourly Costs		Ruts
Hourly Rate for a truck		\$90
Number of trucks		1
excavator + opperator	\$	174.00
Total	\$	264.00
Haul Speed	mph	10
Distance	miles	0.09
Time	hrs	0.018
Dump and Load	hrs	0.083
total time		0.101
Loads per hr		10
Yds per hr		99.01
Cost per Cu. Yd	\$	2.67

**Cram Cleanup**  
**WL-341-2020-W00576-01**  
**Combined Project Costs**

Project 1	Road side brushing	\$ 1,147.00
Project 2	Construct and compact landings, truck turnaround, road improvements	\$ 4,217.00
Project 3	End haul for Spur 1a	\$ 241.74
Project 4	Spread and compact rock for roads	\$ 16,414.00
Project 5	Move In	\$ 4,000.00
TOTAL PROJECT COSTS		\$ 26,019.74

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State Timber Sale Contract

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Cram Cleanup

### Final Road Maintenance Cost Summary

<b>Totals</b>	Spur 1	Spur 1a	<b>TOTAL</b>
Stations	46.35	5.2	
Cost/Sta	\$ 53.61	\$ 93.90	
<b>Total Cost</b>	<b>\$ 2,484.92</b>	<b>\$ 488.30</b>	<b>\$ 2,973</b>

<b>Spot Rocking</b>	Spur 1	Spur 1a	<b>TOTAL</b>
Total Yds	50	10	
Rock Size	3/4"-0"	1 1/2"-0"	
\$/yd	\$ 22.29	\$ 22.29	
Subtotal	\$ 1,114	\$ 223	<b>\$ 1,337</b>

<b>Grade,Shape &amp; Pull Ditches</b>	Spur 1	Spur 1a	<b>TOTAL</b>
Stations	46.35	5.20	
\$/STA	\$ 18.35	\$ 18.35	
Subtotal	\$ 851	\$ 95	<b>\$ 946</b>

<b>Install Waterbars</b>	Spur 1	Spur 1a	<b>TOTAL</b>
# of waterbars	12.00	2.00	
\$/waterbar	\$35.00	\$35.00	
Subtotal	\$ 420.00	\$ 70.00	<b>\$ 490.00</b>

<b>Landing clean up</b>	Spur 1	Spur 1a	<b>TOTAL</b>
Stations	1.00	1.00	
\$/STA	\$ 100.00	\$ 100.00	
Subtotal	\$ 100	\$ 100	<b>\$ 200</b>

<b>Move In</b>	Initial	Between Proj.
Grader	\$ 500	
Vibratory Roller		
D * Cat		
Excavator	\$1,000	
Dump Truck		

Move in costs associated with one entry for the entire project

**Total Final Maintenance Costs \$ 4,473**

# Cruise Report

Cram Cleanup

SALE # 341-2020-W00576-01

**Sale Area:** Located in Section 4, T18S, R7W, W.M., Lane, Oregon. The sale's net harvestable acres are 23. There are approximately 1 acres of stream buffers and 1 acre of road buffers. Acres were determined using a combination of aerial photos, GPS, GIS, and topographic maps.

**Stand Description:** Cram Cleanup is dominated by 90 year old Douglas-fir. A small component of western hemlock, western red cedar and red alder are present. The majority of the hardwood component is concentrated near streams. The understory consists of primarily sword fern, salal, salmonberry, poison oak and red alder. Slopes average approximately 20% with sections ranging up to 60%. There is one small type N stream located in the Northwest portion of the timber sale area. This unit was appraised for ground based and cable operations.

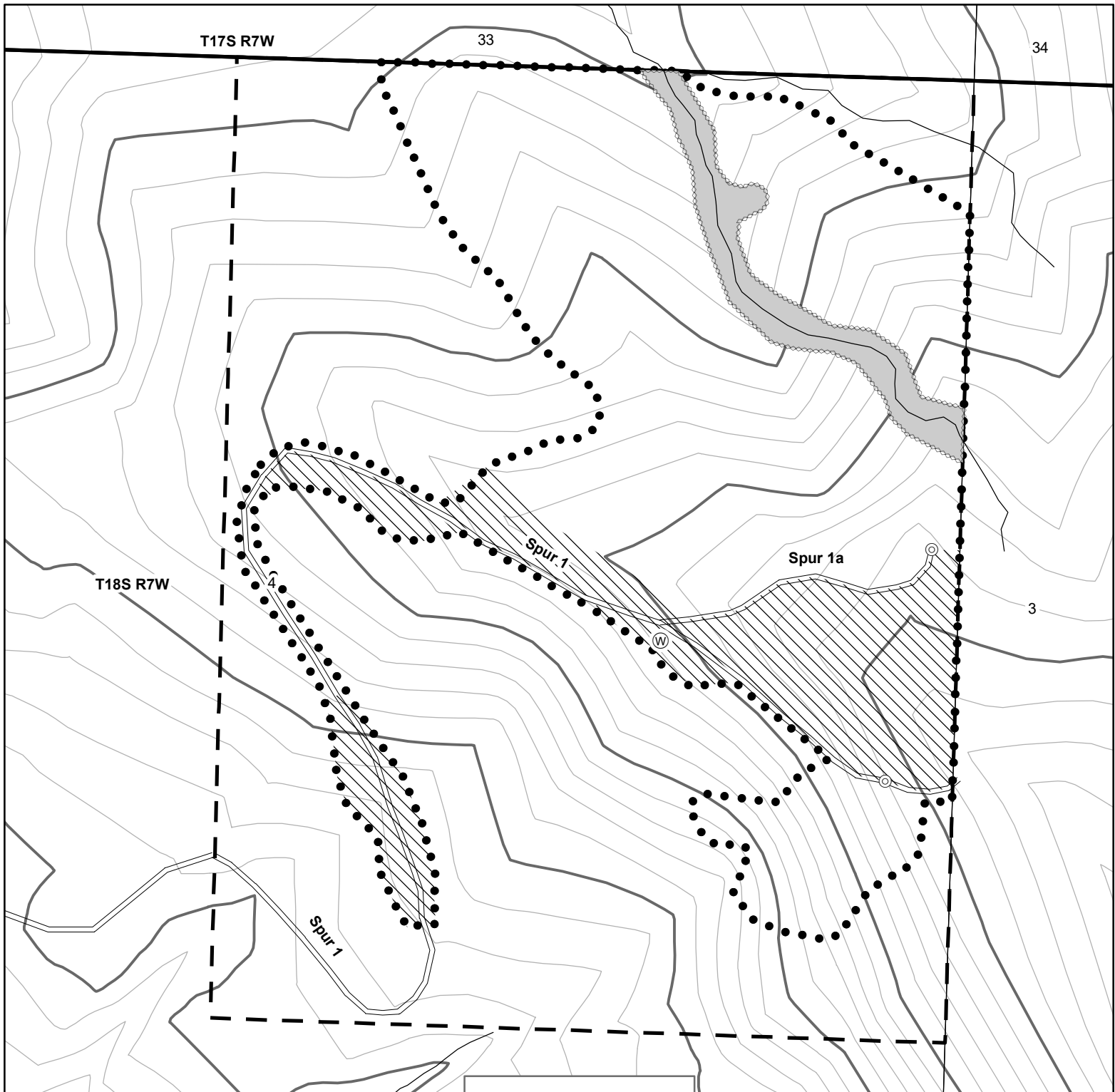
**Cruise Method:** The unit was cruised in a grid pattern using a systematic variable radius plot sampling method. The unit consists of a thinned area (strata 1) and an unthinned area (strata 2). Strata 1 is located in the western portion of the unit and Strata 2 is located in the eastern portion of the unit. Strata 1 was cruised using a 20 BAF for all species. Strata 2 was cruised using a 60 BAF for all species. All Strata cruise data was calculated using SuperACE program.

**Volume Tables:** Volumes were computed using SuperACE program and then converted to MBF/BF using a conversion factor.

Cruise Data						
Species	AVG. DBH	Total MBF	Grades by MBF			
			2S	3S	4S	CR
Douglas-fir	29.5"	870	527	245	98	
Hemlock	20.2"	81				81
WR Cedar	35.1"	23	14	5	4	
					<b>Total MBF</b>	<b>974</b>

Note: All cedar shall be reserved from cutting unless determined to be a fire or safety hazard by STATE, except those within rights-of-way, skid trails and roads, skyline cable corridors, and Landings.



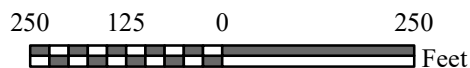


## Logging Map

OF TIMBER SALE CONTRACT NO. 341-2020-W00576-01  
 CRAM CLEANUP  
 PORTIONS OF SECTIONS 4, T18S, R7W, W.M.  
 LANE COUNTY, OREGON

TOTAL NET ACRES = 23

CONTOURS = 20ft



1 in = 250 ft

This product is for informational use  
 and may not have been prepared  
 for or be suitable for legal, engineering  
 or surveying purposes. Users of this information should  
 review or consult the primary data and information  
 sources to ascertain the usability of this information.

### Legend

- Timber Sale Boundary
- Ground Based
- Stream Buffer
- ODF Ownership
- Surfaced road
- Nonfish
- Waste Area
- Landings



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