



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Upper Nelson
Sale WL-341-2020-W00336-01

District: Western Lane

Date: February 06, 2020

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$865,143.76	\$27,244.41	\$892,388.17
		Project Work:	(\$154,558.00)
		Advertised Value:	\$737,830.17



Timber Sale Appraisal
Upper Nelson
Sale WL-341-2020-W00336-01

District: Western Lane

Date: February 06, 2020

Timber Description

Location: Section 8 of T17S R7W W.M.

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	17	0	97
Alder (Red)	15	0	97
Maple	19	0	97

Volume by Grade	2S	3S & 4S 6"-11"	Camprun	Total
Douglas - Fir	1,225	879	0	2,104
Alder (Red)	0	0	114	114
Maple	0	0	37	37
Total	1,225	879	151	2,255

Comments: Other Conifers Stumpage Price = Pond Value minus Logging Costs: \$350.91/MBF = \$580/MBF - \$229.09/MBF

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Costs: \$780.10/MBF = \$1,009.19/MBF - \$229.09/MBF

Red alder Stumpage Price = Pond Value minus Logging Costs: \$205.91/MBF = \$445/MBF - \$239.09/MBF

Other Hardwoods Stumpage Price = \$100.91/MBF

Pulp Price (Conifer and Hardwood) Price = \$3.50/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) = \$8,583

BLM Road Maintenance and Rock Wear Fees = \$19,530

TOTAL Other Costs (No Profit and Risk added) = \$28,113



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Logging Conditions

Combination#: 1

Douglas - Fir	65.00%
Alder (Red)	65.00%
Maple	65.00%

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

yarding distance: Long (1,500 ft) **downhill yarding:** No

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

loads / day: 14 **bd. ft / load:** 4200

cost / mbf: \$66.96

machines: Shovel Logger

Combination#: 2

Douglas - Fir	35.00%
Alder (Red)	35.00%
Maple	35.00%

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

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

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

loads / day: 9 **bd. ft / load:** 4200

cost / mbf: \$179.89

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



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Logging Costs

Operating Seasons: 1.00	Profit Risk: 15%
Project Costs: \$154,558.00	Other Costs (P/R): \$0.00
Slash Disposal: \$0.00	Other Costs: \$28,113.00

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
Alder (Red)	\$0.00	3.0	3.8
Maple	\$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
Douglas - Fir									
\$106.49	\$1.05	\$1.95	\$77.66	\$0.00	\$28.07	\$0.00	\$2.00	\$12.47	\$229.69
Alder (Red)									
\$106.49	\$1.05	\$1.95	\$85.83	\$0.00	\$29.30	\$0.00	\$2.00	\$12.47	\$239.09
Maple									
\$106.49	\$1.05	\$1.95	\$85.83	\$0.00	\$29.30	\$0.00	\$2.00	\$12.47	\$239.09

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$640.88	\$411.19	\$0.00
Alder (Red)	\$0.00	\$445.00	\$205.91	\$0.00
Maple	\$0.00	\$341.00	\$101.91	\$0.00



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Summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00
Alder (Red)	0	\$0.00	\$0.00
Maple	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	2,104	\$411.19	\$865,143.76
Alder (Red)	114	\$205.91	\$23,473.74
Maple	37	\$101.91	\$3,770.67

Gross Timber Sale Value

Recovery: \$892,388.17

Prepared By: Ross Huffman

Phone: 541-935-2283

Upper Nelson
WL-341-2020-W00336-01
Combined Project Costs

Project 1	Construct and compact sub-grades, Road Improvements, Culverts	\$ 49,720.00
Project 2	End Haul for Ruts and Crossings	\$ 2,042.57
Project 3	Spread and compact rock for Roads	\$ 92,296.00
Project 4	Install Metal Gate	\$ 6,000.00
Project 5	Move In	\$ 4,500.00
TOTAL PROJECT COSTS		\$ 154,558.57

Bureau of Land Management
P.O. Box 10226
Eugene Or 97440

Upper Nelson
WL-341-2020-W00336-01

2255
48

Volume MBF:
Approximate Acres

Road maintenance and surface replacement fees shown are per MBF per mile.
Definition
ASC - Aggregate Surface Course
NA - Not Applicable

Road Number	Seg	Setting/Entry point	Hrv Type	Vol.	MBF/YDS	Miles Used	Allocation A or N	Surf Type	Road Use FEE	Road Use Total	Road Maintenance FEE	Road Maintenance Total	Surface Replacement FEE	Surface Replacement Total
17-7-22	G (por)	IP Deeded		2255	MBF	1.28	A	ASC	NA	\$ 0.94	\$ 2,713.22	\$ 0.90	\$ 2,597.76	
17-7-22	A2 - F	IP Deeded		2255	MBF	3.21	A	ASC	NA	\$ 0.94	\$ 6,804.24	\$ 0.90	\$ 6,514.70	
17-7-22	A1	IP Deeded		2255	MBF	0.35	A	BST	NA	\$ 1.14	\$ 899.75	\$ -	\$ -	
Totals									0	\$ 10,417.20	\$ 9,112.46	\$ -	\$ 9,112.46	
Grand Total												\$ 19,529.65		

"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>
Equipment wash prior to move-out	Operation			\$ 500
Firewood sorting and landing slash piling	Operation			\$ 2,000
BLM Road Use Fees	Operation			\$ 19,530
Final Road Maintenance	Operation			\$ 6,083
Total "Other Costs" With No Additional Profit and Risk:				\$ 28,113
Cost per MBF	2,255	MBF		\$ 12.47

State Timber Sale Contract
 Upper Nelson
 WL-341-2020-W00336-01

End Haul For Road

Summary

Total Loose Truck Haul Cu. Yds.	581
Total End Haul Costs	\$ 2,042.57
Avg Cost/ Cu. Yds.	\$ 3.52

Totals (80% of Earth Rock Mixture)	Location	Distance to Waste	Cost/yd	Haul Cost
94	Ruts	0.3	\$ 3.78	\$ 696.41
128	W.A. 1	0.50	\$ 3.15	\$ 792.19
74	W.A. 2	0.7	\$ 3.84	\$ 553.98
296			Total Endhaul Cost	\$ 2,042.57
			Avg Cost/ yd	\$ 3.52

75% Earth 25% Rock	In Place	Truck	In Fill
129	184	1.43	0.91
176	252		160
101	144		92
406	580.58		369

75 % Rock 25 % Earth	In Place	Truck	In Fill
1+70	1.31		1.12
16+00			
16+00			
0	0		0

Loose Truck Haul Total Cu. Yds.	581
In-Fill Total Cu. Yds.	369

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	Fill 1	Fill 2
Hourly Rate for a truck	\$90	\$90	\$90
Number of trucks	1	2	2
excavator + operator	\$ 174.00	\$ 174.00	\$ 174.00
Total	\$ 264.00	\$ 344.00	\$ 344.00
Haul Speed	10	10	10
Distance	0.3	0.5	0.7
Time	0.06	0.10	0.14
Dump and Load total time	0.083	0.083	0.083
	0.143	0.183	0.223
Loads per hr	7	5	4
Yds per hr	69.93	109.2896	89.6861
Cost per Cu. Yd	\$ 3.78	\$ 3.15	\$ 3.84

State Timber Sale Contract
 WL-341-2020-W00336-01
 Upper Nelson

Final Road Maintenance Cost Summary

Totals	Spur 1	Spur 1a	Spur 1b	Spur 1c	Spur 1d	Spur 2	Spur 2a	TOTAL
Stations	36.28	8.4	1.9	3.6	2.3	9	2.1	
Cost/Sta	\$ 72.70	\$ 69.47	\$ 225.95	\$ 137.64	\$ 189.85	\$ -	\$ -	
Total Cost	\$ 2,637.38	\$ 583.58	\$ 429.31	\$ 495.50	\$ 436.65	\$ -	\$ -	\$ 4,583

Spot Rocking	Spur 1	Spur 1a	Spur 1b	Spur 1c	Spur 1d	Spur 2	Spur 2a	TOTAL
Total Yds	60	10	10	10	10	0	0	
Rock Size	3"-0"	3"-0"	3"-0"	3"-0"	3"-0"	3"-0"	1 1/2"-0"	
\$/yd	\$25.94	\$25.94	\$25.94	\$25.94	\$25.94	\$25.94	\$ 26.64	
Subtotal	\$ 1,557	\$ 259	\$ 259	\$ 259	\$ 259	\$ -	\$ -	\$ 2,593

Grade, Shape & Pull Ditches	Spur 1	Spur 1a	Spur 1b	Spur 1c	Spur 1d	Spur 2	Spur 2a	TOTAL
Stations	36.28	8.40	1.90	3.60	2.30	0.00	0.00	
\$/STA	\$ 18.35	\$ 18.35	\$ 18.35	\$ 18.35	\$ 18.35	\$ 18.35	\$ 18.35	
Subtotal	\$ 666	\$ 154	\$ 35	\$ 66	\$ 42	\$ -	\$ -	\$ 963

Install Waterbars	Spur 1	Spur 1a	Spur 1b	Spur 1c	Spur 1d	Spur 2	Spur 2a	TOTAL
# of waterbars	9.00	2.00	1.00	2.00	1.00	0.00	0.00	
\$/waterbar	\$35.00	\$35.00	\$35.00	\$35.00	\$35.00	\$35.00	\$35.00	
Subtotal	\$ 315.00	\$ 70.00	\$ 35.00	\$ 70.00	\$ 35.00	\$ -	\$ -	\$ 525.00

Landing clean up	Spur 1	Spur 1a	Spur 1b	Spur 1c	Spur 1d	Spur 2	Spur 2a	TOTAL
Stations	1.00	1.00	1.00	1.00	1.00	0.00	0.00	
\$/STA	\$ 100.00	\$ 100.00	\$ 100.00	\$ 100.00	\$ 100.00	\$ 100.00	\$ 100.00	
Subtotal	\$ 100	\$ 100	\$ 100	\$ 100	\$ 100	\$ -	\$ -	\$ 500

Move In	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 **\$ 6,083**

Rocking and Compaction

Rock Source:

Commercial

Rock Quantity (Inplace)		(3" - 0")							
Base Rock	Spur 1	Spur 1a	Spur 1b	Spur 1c	Spur 1d	Spur 2	Spur 2a	TOTAL	
Rock Size	3'-0"	3'-0"	Jaw Run	Jaw Run	Jaw Run	3'-0"	3'-0"		
Stations	36.28	8.40	1.90	3.60	2.30	9.00	2.10	63.00	
Approx yds/sta	33	33	33	33	33	33	33		
Subtotal base (cu. yds)	1200	280	60	120	80	300	70	2110	
Cap Rock	Spur 1	Spur 1a	Spur 1b	Spur 1c	Spur 1d	Spur 2	Spur 2a	TOTAL	
Rock Size	1 1/2'-0"	1 1/2'-0"	3'-0"	3'-0"	3'-0"	1 1/2'-0"	1 1/2'-0"		
Stations	36.28	8.4	1.9	3.6	2.3	9	2.1	63.00	
Approx yds/sta	11	11	11	11	11	11	11		
Subtotal cap (cu. yds)	400	90	20	40	30	100	20	700	
Landings	Spur 1	Spur 1a	Spur 1b	Spur 1c	Spur 1d	Spur 2	Spur 2a	TOTAL	
Rock Size	Jaw Run	Jaw Run	Jaw Run	Jaw Run	Jaw Run	Jaw Run	Jaw Run		
Stations	1.00	1.00	1.00	1.00	1.00	2.00	1.00	8.00	
Approx yds/sta	40	40	40	40	40	40	40		
Subtotal base (cu. yds)	40	40	40	40	40	80	40	320	
Additional Rock	Spur 1	Spur 1a	Spur 1b	Spur 1c	Spur 1d	Spur 2	Spur 2a	TOTAL	
Rock Size	Jaw Run	Jaw Run	Jaw Run	Jaw Run	Jaw Run	Jaw Run	Jaw Run		
Turnouts and Turn-Arounds	3	1	0	0	0	1	0	5.00	
Approx cu. yds	20	20	20	20	20	20	0		
Subtotal Tunouts/Around (cu. yds)	60	20	0	0	0	20	0	100	
Rock Size	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"		
Number of Points	2	1	0	0	1	2	1		
Curve Widening/Spot Rocking (Yds)	10	10	0	0	10	10	10		
Subtotal Spot/Widening Rock	20	10	0	0	10	20	10	70	
Energy Disipator/ Drain Rock	Spur 1	Spur 1a	Spur 1b	Spur 1c	Spur 1d	Spur 2	Spur 2a	TOTAL	
Rock Size	Pit Run	Pit Run	Pit Run	Pit Run	Pit Run	Pit Run	Pit Run		
Approx cu. yds	10	0	0	0	0	0	0		
Energy Disipator/ Drain Rock Points	5.00	0	0	0	0	0	0	5.00	
Subtotal Energy Disipator/Drain Rock	50	0	0	0	0	0	0	50	
ROCK COST (Rock + Delivery)									
Road Segment/Name	Spur 1	Spur 1a	Spur 1b	Spur 1c	Spur 1d	Spur 2	Spur 2a	TOTAL	
Rock Size	3'-0"	3'-0"	Jaw Run	Jaw Run	Jaw Run	3'-0"	3'-0"		
Approx cu. yds	1200	280	60	120	80	300	70	2110	
Cost/yd (includes load/spread)	\$ 25.94	\$ 25.94	\$ 23.77	\$ 23.77	\$ 23.77	\$ 25.94	\$ 25.94		
Subtotal Cost "Base" Rock	\$ 31,133	\$ 7,264	\$ 1,426	\$ 2,853	\$ 1,902	\$ 7,783	\$ 1,816	\$ 54,177	
Rock Size	1 1/2'-0"	1 1/2'-0"	3'-0"	3'-0"	3'-0"	1 1/2'-0"	1 1/2'-0"		
Approx cu. yds	400	90	20	40	30	100	20	700	
Cost/yd (includes load/spread)	\$ 26.64	\$ 26.64	\$ 25.94	\$ 25.94	\$ 25.94	\$ 26.64	\$ 26.64		
Subtotal Cost "Cap" Rock	\$ 10,658	\$ 2,398	\$ 519	\$ 1,038	\$ 778	\$ 2,664	\$ 533	\$ 18,588	
Rock Size	Jaw Run	Jaw Run	Jaw Run	Jaw Run	Jaw Run	Jaw Run	Jaw Run		
Approx cu. yds Tunouts/Arounds	60	20	0	0	0	20	0	100	
Cost/yd (includes load/spread)	\$ 23.77	\$ 23.77	\$ 23.77	\$ 23.77	\$ 23.77	\$ 23.77	\$ 23.77		
Subtotal	\$1,426.44	\$475.48	\$0.00	\$0.00	\$0.00	\$475.48	\$0.00		
Rock Size	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"		
Approx cu. Yds Spot/Widening	20	10	0	0	10	20	10	70	
Cost/yd (includes load/spread)	\$25.94	\$25.94	\$25.94	\$25.94	\$25.94	\$25.94	\$25.94		
Subtotal	\$518.88	\$259.44	\$0.00	\$0.00	\$259.44	\$518.88	\$259.44		
Rock Size	Pit Run	Pit Run	Pit Run	Pit Run	Pit Run	Pit Run	Pit Run		
Approx cu. Yds Energy Disipator/Drain Rock	50							50	
Cost/yd (includes load/spread)	\$ 22.58	\$ 22.58	\$ 22.58	\$ 22.58	\$ 22.58	\$ 22.58	\$ 22.58		
Subtotal	\$ 1,129.20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		
Subtotal Cost "Additional" Rock	\$ 3,075	\$ 735	\$ -	\$ -	\$ 259	\$ 994	\$ 259	\$ 5,322	
Approx cu. yds Landing	40	40	40	40	40	80	40	320	
Rock Size	Jaw Run	Jaw Run	Jaw Run	Jaw Run	Jaw Run	Jaw Run	Jaw Run		
Approx cu. yds	40	40	40	40	40	80	40	320	
Cost/yd (includes load/spread)	\$ 23.77	\$ 23.77	\$ 23.77	\$ 23.77	\$ 23.77	\$ 23.77	\$ 23.77		
Subtotal Cost "Landing" Rock	\$ 951	\$ 951	\$ 951	\$ 951	\$ 951	\$ 1,902	\$ 951	\$ 7,608	
Grand total quarry approx yds	1720	440	120	200	160	520	140	3300	
Total Quarry Rock Cost	\$ 45,816	\$ 11,348	\$ 2,896	\$ 4,842	\$ 3,891	\$ 13,344	\$ 3,559	\$ 85,696	
Compaction w/Processing (Stations)	Spur 1	Spur 1a	Spur 1b	Spur 1c	Spur 1d	Spur 2	Spur 2a	TOTAL	
Cost/cu. Yds	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00		
Subtotal Processing	\$ 3,440	\$ 880	\$ 240	\$ 400	\$ 320	\$ 1,040	\$ 280	\$ 6,600	
\$/yd" rock in place & compacted	Spur 1	Spur 1a	Spur 1b	Spur 1c	Spur 1d	Spur 2	Spur 2a	Total	
Total Rock Costs	\$49,256	\$12,228	\$3,136	\$5,242	\$4,211	\$14,384	\$3,839	\$ 92,296	

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

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

Totals	Spur 1	Spur 1a	Spur 1b	Spur 1c	Spur 1d	Spur 2	Spur 2a	TOTAL
Stations	36.28	8.4	1.9	3.6	2.3	9	2.1	63
Cost/Sta	\$ 769.00	\$ 871.00	\$ 868.00	\$ 701.00	\$ 811.00	\$ 766.00	\$ 749.00	
Cost	\$ 27,891.76	\$ 7,318.20	\$ 1,649.68	\$ 2,525.00	\$ 1,866.00	\$ 6,896.00	\$ 1,573.00	\$ 49,720.00

Earthwork

Clearing and Grubbing	Spur 1	Spur 1a	Spur 1b	Spur 1c	Spur 1d	Spur 2	Spur 2a	TOTAL
Acreage	0.67	0.42	0.18	0.24	0.2	0.55	0.19	2
Cost/Acre	\$1,653.78	\$1,653.78	\$1,653.78	\$1,653.78	\$1,653.78	\$1,653.78	\$1,337.00	
Total	\$ 1,109	\$ 695	\$ 298	\$ 397	\$ 331	\$ 910	\$ 255	\$ 3,995.00

Excavation yards are bank run from State's design

Construction/Excavation	Spur 1	Spur 1a	Spur 1b	Spur 1c	Spur 1d	Spur 2	Spur 2a	TOTAL
Stations	36.28	8.4	1.9	3.6	2.3	9	2.1	
Drift/Excavation Cu Yd w Fluff	3154	712	161	305	195	763	178	
\$/sta	\$181.09	\$181.09	\$181.09	\$181.09	\$181.09	\$282.02	\$122.00	
Drift/Excavation \$/yd	\$3.59	\$2.72	\$2.72	\$2.72	\$2.72	\$2.72	\$2.72	
Landing Construction	\$481.17	\$481.17	\$481.17	\$481.17	\$481.17	\$962.33	\$481.17	
Subtotal	\$ 18,365	\$ 3,940	\$ 1,264	\$ 1,964	\$ 1,429	\$ 5,576	\$ 1,222	\$ 33,760.00

Road Fabric	Spur 1							TOTAL
Stations	1.4							
\$/sq ft	\$1.86							
Subtotal	\$259.76							\$ 260.00

Culverts	Spur 1	Spur 1						TOTAL
ACSP	3	2						
Length (ft)	160	60						
Diameter	18"	24	18"		18"	18"		
Cost/Foot	\$ 13.85	\$ 18.12	\$ 13.85	\$ 13.85	\$ 13.85	\$ 13.85		
Replace culverts	1							
Subtotal	\$ 2,216.00	\$ 1,087.20	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,303
Installation Cost	\$ 3,572	\$ 1,214	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,786

* Aluminized Steel was used for costing purposes based on prices as of 06/20/19

Subgrade Treatment

Compaction w/ Roller Surface R	Spur 1							TOTAL
Road Stations	36.28	8.4	1.9	3.6	2.3	9	2.1	63
Cost/STA	\$ 24.97	\$ 22.70	\$ 22.70	\$ 22.70	\$ 22.70	\$ 22.70	\$ 22.70	
Subtotal	\$ 907	\$ 191	\$ 44	\$ 82	\$ 53	\$ 205	\$ 48	\$ 1,530

Grade and Shape	Spur 1	Spur 1a	Spur 1b	Spur 2	Spur 1d	Spur 2	Spur 2a	TOTAL
Road Stations	36.28	8.4	1.9	3.6	2.3	9	2.1	
Cost/STA	\$ 40.32	\$ 22.70	\$ 22.70	\$ 22.70	\$ 22.70	\$ 22.70	\$ 22.70	
Subtotal	\$ 1,463	\$ 191	\$ 44	\$ 82	\$ 53	\$ 205	\$ 48	\$ 2,086

Move in Cost	Initial	Between Projects
D-7 Cat	\$ 1,500	
Dump Truck	\$ 200	
grader	\$ 500	
small excavator	\$ 500	
vibratory roller	\$ 200	
water truck	\$ 100	
large excavator	\$ 1,500	

Project Cost \$ 49,720.00

Move In Cost \$ 4,500

Total Cost \$ 54,220.00

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

Cruise Report

Upper Nelson

SALE # 341-2020-W00336-01

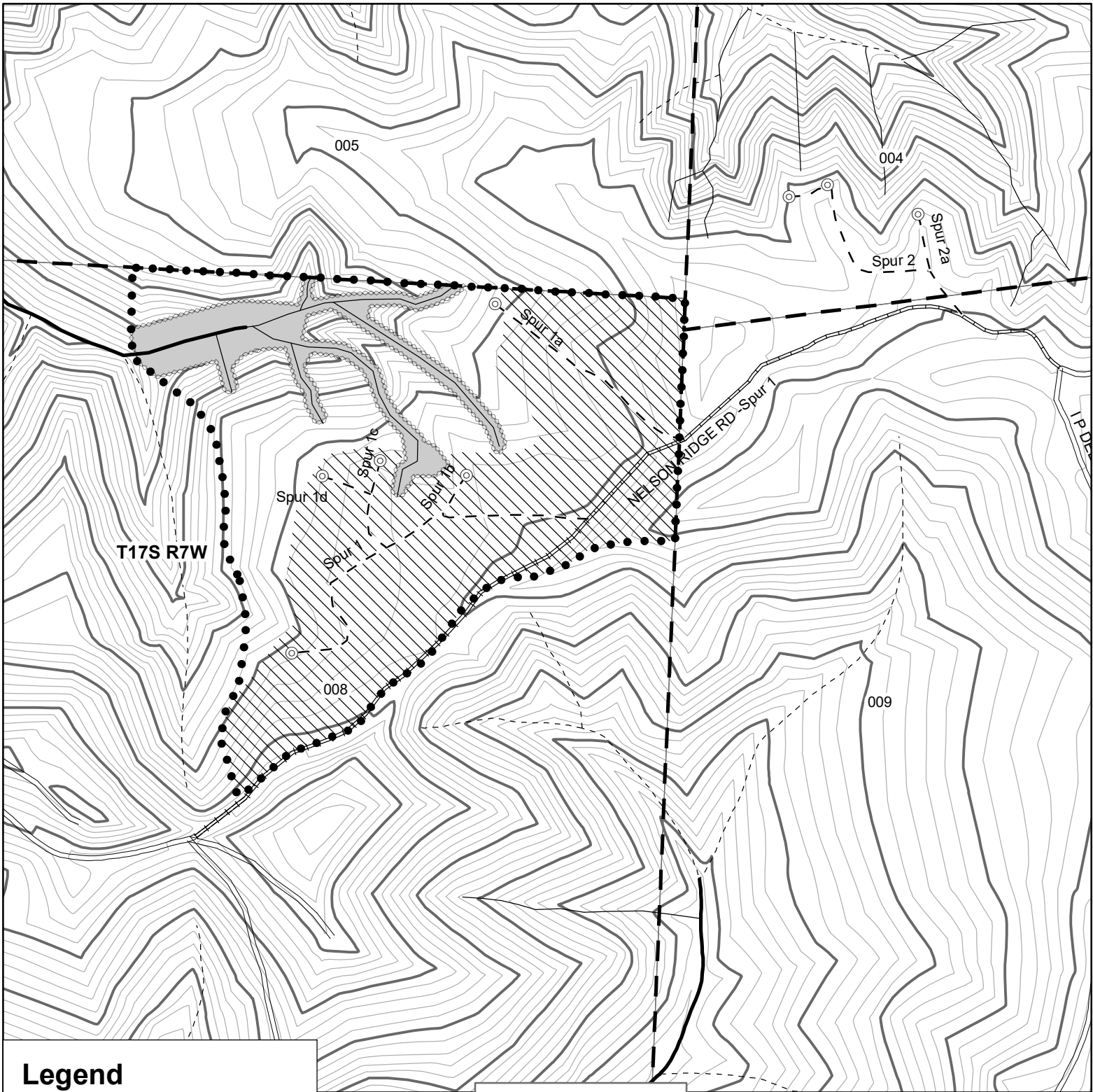
Sale Area: Portions of Section 8, T17S, R07W, W.M., Lane County, Oregon. The sale's net harvestable acres are 48. There are approximately 6 acres of stream buffers. Acres were determined using a combination of aerial photos, GPS, GIS, and topographic maps.

Stand Description: Upper Nelson is dominated by 73 and 82 year old Douglas-fir. A small component of bigleaf maple, western hemlock, western red cedar and red alder are present. The majority of the hardwood component is concentrated near the draws. The understory consists of primarily sword fern, salal, Oregon grape, salmonberry, oxalis, and vine maple. The majority of the timber sale area is flat ranging from 0%-30% slopes and a small portion of the timber sale with slopes that are primarily 55% and above in the timber sale area. There are six small type N streams branching off of one small type F stream located near the Northern portion of the timber sale area. This unit was appraised for both ground and cable based operations.

Cruise Method: This timber sale was not cruised. Instead, cut-out data with a 2% in-growth from the Another Nelson Timber Sale was used for grade volume percentage, total MBF and MBF/acre volume. Hemlock volume was added to Douglas-Fir due to lack of presence in stand.

Volume Tables: Volumes were computed using cut-out data from the Another Nelson Timber Sale.

Species	AVG. DBH	Total MBF	Grades by MBF			
			2S	3S	4S	CR
Douglas-fir	17"	2104	1225	772	107	
red alder	15"	114				114
maple	19"	37				37
					Total MBF	2255

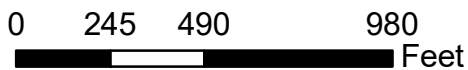


Legend

- ⊙ Landing to Construct
- Timber Sale Boundary
- ┌ ─ ─ ─ ┐ ODF Ownership
- Fish
- Nonfish
- - - - - Unknown
- ▨ Stream Buffer
- ▨ Ground Based

Logging Map

OF TIMBER SALE CONTRACT NO. 341-2020-W00336-01
 UPPER NELSON
 PORTIONS OF SECTIONS 08, T17S, R7W, W.M.
 LANE COUNTY, OREGON



1 in = 500 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.

Yarding
 Ground base = 65%
 Cable = 35%
 Total Net Acres: 48
 Contours = 20ft



"STEWARDSHIP IN FORESTRY"