Timber Sale Appraisal
Pontius Creek

Sale WL-341-2020-W00783-01

"STEWARDSHIP IN FORESTRY"

District: Western Lane

Date: October 24, 2019

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	$1,379,167.22	$1,576.56	$1,380,743.78
		Project Work:	($190,273.80)
		Advertised Value:	$1,190,469.98

Timber Sale Appraisal
Pontius Creek

Sale WL-341-2020-W00783-01

District: Western Lane **Date: October 24, 2019**

Timber Description

Location: Portions of Section 12, T16S, R7W, W.M., Lane County, OR

Stand Stocking: 60%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	17	0	97
Alder (Red)	15	0	95
Maple	19	0	95

Volume by Grade	2S	3S & 4S 6"-11"	SM & Better	Camprun	Total
Douglas - Fir	2,822	1,055	90	0	3,967
Alder (Red)	0	0	0	13	13
Maple	0	0	0	1	1
Total	2,822	1,055	90	14	3,981

Comments: Pond Values Used: Forest to Market Prices September 2019.

Western hemlock and Other Conifers Stumpage Price = Pond Value minus Logging Costs:
$179.98/MBF = $485/MBF - $305.02/MBF

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Costs:
$754.98/MBF = $1060/MBF - $305.02/MBF

Red alder and Other Hardwoods Stumpage Price =
$122.04/MBF

Bigleaf maple Stumpage Price =
$0.00/MBF

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

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

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

Other Costs (No Profit & Risk added):
Final Road Maintenance = $6,774

BLM Road Maintenance and Rock Wear Fees = $21,932

Weyerhaeuser Road Wear Rock = $1,581

TOTAL Other Costs (No Profit and Risk added) = $30,287

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District: Western Lane **Date: October 24, 2019**

Logging Conditions

Combination#: 1

Douglas - Fir	31.00%
Alder (Red)	31.00%
Maple	31.00%

Logging System: Shovel **Process:** Harvester Head Delimbing

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

tree size: Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF

loads / day: 15 **bd. ft / load:** 4250

cost / mbf: $83.83

machines: Forwarder
Harvester

Combination#: 2

Douglas - Fir	69.00%
Alder (Red)	69.00%
Maple	69.00%

Logging System: Cable: Large Tower >=70 **Process:** Harvester Head Delimbing

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

tree size: Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF

loads / day: 8 **bd. ft / load:** 4250

cost / mbf: $234.72

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

Timber Sale Appraisal
Pontius Creek

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District: Western Lane

Date: October 24, 2019

Logging Costs

Operating Seasons:	1.00	**Profit Risk:**	10%
Project Costs:	$190,273.80	**Other Costs (P/R):**	$0.00
Slash Disposal:	$0.00	**Other Costs:**	$30,287.00

Miles of Road

Road Maintenance: $0.00

Dirt	Rock (Contractor)	Rock (State)	Paved
0.0	3.0	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	3.5
Alder (Red)	$0.00	2.0	3.0
Maple	$0.00	2.0	3.0

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Date: October 24, 2019

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas - Fir									
$187.94	$3.15	$1.10	$77.66	$0.00	$26.98	$0.00	$2.00	$7.61	$306.44
Alder (Red)									
$187.94	$3.21	$1.10	$166.25	$0.00	$35.85	$0.00	$2.00	$7.61	$403.96
Maple									
$187.94	$3.21	$1.10	$166.25	$0.00	$35.85	$0.00	$2.00	$7.61	$403.96

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	$0.00	$654.10	$347.66	$0.00
Alder (Red)	$0.00	$526.00	$122.04	$0.00
Maple	$0.00	$394.00	($9.96)	$0.00

Timber Sale Appraisal
Pontius Creek

Sale WL-341-2020-W00783-01

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District: Western Lane **Date: October 24, 2019**

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	3,967	$347.66	$1,379,167.22
Alder (Red)	13	$122.04	$1,586.52
Maple	1	($9.96)	($9.96)

Gross Timber Sale Value

Recovery: $1,380,743.78

Prepared By: Kevin Gehrig **Phone:** 541-935-2283

Pontius Crk.
WL-341-2020-W00783-01
Combined Project Costs

Project 1	Road Brushing	$5,267.00
Project 2	Construct and compact sub-grades, Road Improvements, Culverts, End Haul and Stump Removal	$86,823.93
Project 3	Remove log debris from fill at crossing.	$2,544.00
Project 4	Stream crossing pipe installation and fill construct.	$4,500.87
Project 5	Spread and compact rock for Roads	$83,387.00
Project 6	Clean Catch Basins, Ditches and replace culvert on Haul Rd.	$1,251.00
Project 7	Move In	$6,500.00
	TOTAL PROJECT COSTS	$190,273.80

State Timber Sale Contract
Pontius Crk.
WL-341-2020-W00577-01

Road Brushing Costs

Location	Swamp Creek (16-7-6)	16-8-1	Spur 1	
Point to Point/Satationing	A to F	F to H	H to I	
Miles	2.64	1.8	0.14	Total
Brushing Intensity	Light	Light	Light	
Cost/mile	$ 1,150	$ 1,150	$ 1,150	
Total Cost	**$ 3,036**	**$ 2,070**	**$ 161**	**$ 5,267**

State Timber Sale Contract
Pontius Crk.
WL-341-2020-W00577-01

Subgrade Construction/Culverts

Processing and Decking Right-of-Way Logs Not Included

Totals	Spur 1	Spur 1a	Spur 1b	Spur 1c	Spur 1d	Swamp Creek (16-7-6)	16-8-1	TOTAL
Stations	50.88	6.15	3.8	2.5	2	139.4	96.03	301
Cost/Sta	$ 277.00	$ 1,274.00	$ 711.00	$ 992.00	$ 1,099.00	$ 8.00	$ 6.00	
Cost	**$ 14,107.91**	**$ 7,832.82**	**$ 2,703.00**	**$ 2,481.00**	**$ 2,198.00**	**$ 1,065.14**	**$ 560.18**	**$ 30,948.00**

Earthwork

Clearing and Grubbing	Spur 1	Spur 1a	Spur 1b	Spur 1c	Spur 1d	Swamp Creek (16-7-6)	16-8-1	TOTAL
Acreage	1.41	0.28	0.47	0.382	0.18			1.0
Cost/Acre	$1,653.78	$1,653.78	$1,653.78	$1,653.78	$1,653.78	$1,653.78	$1,337.00	
Total	$ 2,332	$ 464	FALSE	$ 632	$ 298	$ -	$ -	**$ 3,726.00**

Excavation yards are bank run from State's design

Construction/Excavation	Spur 1	Spur 1a	Spur 1b	Spur 1c	Spur 1d	Swamp Creek (16-7-6)	16-8-1	TOTAL
Stations	5.46	6.15	3.8	2.5	2			
Drift/Excavation Cu Yd	712	0	483	453	364			
$/sta	$195.00	$181.09	$181.09	$2.77	$181.09	$282.02		
Drift/Excavation $/yd	$2.60	$2.60	$2.60	$2.60	$2.50			
Landing Construction	$962.33	$481.17	$481.17	$481.17	$481.17			
Subtotal	**$ 3,879**	**$ 1,595**	**$ 2,426**	**$ 1,666**	**$ 1,754**	**$ -**	**$ -**	**$ 11,320.00**

Sidcast PullBack	Spur 1	Spur 1a	Spur 1b	Spur 2	Spur 1d	Swamp Creek (16-7-6)	16-8-1	TOTAL
Stations	3	6						
$/sq ft	$688.97	$688.97	$0.00	$0.00	$0.00	$0.00	$0.00	
Subtotal	**$2,066.91**	**$4,133.82**						**$ 6,201.00**

Culverts	Spur 1	Spur 1a						TOTAL
ACSP	2	1		\				
Length (ft)	80	40						
Diameter	18"	18"			18"	18"		
Cost/Foot	$ 13.85	$ 13.85	$ 13.85	$ 13.85	$ 13.85	$ 13.85		
Replace culverts								
Subtotal	**$ 1,108.00**	**$ 554.00**	**$ -**	**$ -**	**$ -**	**$ -**		**$ 1,662.00**
Installation Cost	**$ 1,276**	**$ 638**	**$ -**	**$ -**	**$ -**	**$ -**		**$ 1,914.00**

Grade,Shape & Pull Ditches On Haul Route						Swamp Creek (16-7-6)	16-8-1	TOTAL
Stations	0.00	0.00	0.00	0.00	0.00	30.45	24.68	55
$/STA	$ 22.70	$ 22.70	$ 22.70	$ 22.70	$ 22.70	$ 22.70	$ 22.70	
Subtotal	$ -	$ -	$ -	$ -	$ -	$ 691	$ 560	**$ 1,251.00**

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

Subgrade Treatment

Compaction w/ Roller	Spur 1	Spur 1a	Spur 1b	Spur 1c	Spur 1d	Swamp Creek (16-7-6)	16-8-1	TOTAL
Road Stations	50.88	6.15	3.8	2.5	2	0		66
Cost/STA	$ 24.97	$ 24.97	$ 24.97	$ 24.97	$ 24.97	$ 24.97	$ 22.70	
Subtotal	$ 1,271	$ 154	$ 95	$ 63	$ 50	$ -	$ -	**$ 1,633.00**

Grade and Shape	Spur 1	Spur 1a	Spur 1b	Spur 1c	Spur 1d	Spur 1	16-8-1	TOTAL
Road Stations	45.62	6.15	3.8	2.5	2	5.26	0	**65**
Cost/STA	$ 47.67	$ 47.67	$ 47.67	$ 47.67	$ 47.67	$ 71.04	$ 46.06	
Subtotal	**$ 2,175**	**$ 294**	**$ 182**	**$ 120**	**$ 96**	**$ 374**	$ -	**$ 3,241.00**

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

Project Cost	**$ 30,948.00**
Move In Cost	**$ 6,500**
Total Cost	**$ 36,197.00**

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

Gehrig 10/24/2019

State Timber Sale Contract

341-17-57
Pontius Crk.

End Haul For Pontius Rd. (1 of 2)

Summary	
Total Loose Truck Haul Cu. Yds.	10,276
Total End Haul Costs	$ 43,582.06
Avg Cost/ Cu. Yds.	$ 4.24

Spur 1

		75 % Rock 25 % Earth			75% Earth 25% Rock			Clean Fill Totals (80% of Earth Rock Mixture)	Location	Distance to Waste Areas (Miles)		
		In Place	Truck	In Fill	In Place	Truck	In Fill					
Location	Exp. Factor		1.31	1.12		1.43	0.91				**Cost/yd**	**Haul Cost**
9+90-14+32					442	632	402	322	Spur 1 Lift	0.2	$ 3.68	$ 2,324.76
14+32-20+77					92	132	84	67	Spur 1 Lift	0.2	$ 3.68	$ 483.89
14+32-20+77					188	269	171	137	Spur 1 Lift	0.2	$ 3.68	$ 988.81
20+77 -26+03					1059	1514	964	771	42+46	0.41	$ 4.78	$ 7,240.93
Sidcast Pull Back					60	85.8	54.6	44	Spur 1 Lift	0.2	$ 3.68	$ 315.58
			0	**0**	**1841**	**2633**	**1675**	**1340**			**Endhaul To Waste Area 1**	**$ 11,353.96**
											Avg Cost/yd	**$ 4.31**

Loose Truck Haul Total Cu. Yds.	**2633**
Clean Fill Total Cu. Yds.	**1340**
Waste Material	1292

335

Note: Costing is based off an average haul speed of 5mph, **One 22 Cu. Yds. Mechanical Drive Rear Dump truck,** 1 excavator, Dump and Load time 0.2hrs/trip.

Spur 1A

		75 % Rock 25 % Earth			75% Earth 25% Rock			Clean Fill Totals (80% of Earth Rock Mixture)	Location	Distance to Waste Areas (Miles)		
		In Place	Truck	In Fill	In Place	Truck	In Fill					
Location	Exp. Factor		1.31	1.12		1.43	0.91				**Cost/yd**	**Haul Cost**
0+00-6+15					132	189	120	96	Spur 1 Lift	0.2	$ 3.68	$ 555.42
0+00-6+15					270	386	246	197	Spur 1B Lift	0.2	$ 3.68	$ 1,136.08
0+00-6+15					179	256	163	130	Spur 1C Lift	0.29	$ 2.47	$ 505.91
0+00-6+15					143	204	130	104	Spur 1D lift	0.43	$ 2.91	$ 475.79
Sidecast Pull Back					123	176	112	90	Waste Area 1	0.2	$ 3.68	$ 517.55
0+00-6+15					424	606	386	309	Waste Area 1	0.2	$ 3.68	$ 1,784.07
	Sub Total Cu. Yds.		**0**	**0**	**1271**	**1818**	**1157**	**925**			**Endhaul to Waste Area 1**	**$ 4,974.80**
Loose Truck Haul Total Cu. Yds.			**1818**								**Avg Cost/yd**	**$ 2.74**
Estimated Clean Fill Cu. Yds.			**925**									
Waste Material			892									

Note: Costing is based off an average haul speed of 5mph, **One 22 Cu. Yds. Mechanical Drive Rear Dump truck**s, 1 excavator, Dump and Load time 0.2hrs/trip.

Landing 1

231

		75 % Rock 25 % Earth			75% Earth 25% Rock			Clean Fill Totals (80% of Earth Rock Mixture)	Location	Distance to Waste Areas (Miles)		
		In Place	Truck	In Fill	In Place	Truck	In Fill					
Location	Exp. Factor		1.31	1.12		1.43	0.91				Cost/yd	Haul Cost
8+65 to Waste Area 1		0	0	0	290	415	264	211	Waste Area 1	0.43	$ 4.93	$ 2,042.59
8+65 to Fill 1		0	0	0	544	778	495	396	9+42	0.0005	$ 2.53	$ 1,970.54
	Sub Total Cu. Yds.		**0**	**0**	**834**	**1193**	**759**	**607**			**Endhaul to Waste Area 1**	**$ 2,042.59**
											Endhaul to Fill 1	**$ 1,970.54**
							152				**Avg Cost/YD**	**$ 3.36**

Loose Truck Haul Total Cu. Yds.	**1193**
Clean Fill Total Cu. Yds.	**607**
Waste Material	585

Note: Costing is based off an average haul speed of 5mph, **One 22 Cu. Yds. Mechanical Drive Rear Dump truck** 1 excavator, Dump and Load time 0.2hrs/trip.

Switchback

		75 % Rock 25 % Earth			75% Earth 25% Rock			Clean Fill Totals (80% of Earth Rock Mixture)	Location	Distance to Waste Areas (Miles)		
		In Place	Truck	In Fill	In Place	Truck	In Fill					
Location	**Exp. Factor**		1.31	1.12		1.43	0.91				**Cost/yd**	**Haul Cost**
26+03 to Fill 2			0	0	1149	1643	1046	836	Switch Back	0.0005	$ 1.56	$ 2,569.42
26+03 to Fill 3					2091	2990	1903	1522	42+46	0.31	$ 4.93	$ 14,727.75
			0	**0**	**3240**	**4633**	**2948**	**2359**			**Endhaul To Fill 2**	**$ 2,569.42**
											Endhaul To Fill 3	**$ 14,727.75**
											Endhaul To Waste Area 1	**$ -**
							590				**Total Endhaul Cost**	**$ 17,297.17**
											Avg Cost/yd	**$ 3.73**

Loose Truck Haul Total Cu. Yds.	**4633**
Clean Fill Total Cu. Yds.	**2359**
Waste Material	2274

Note: Costing is based off an average haul speed of 5mph, **One 22 Cu. Yds. Mechanical Drive Rear Dump trucks**, 1 excavator, Dump and Load time 0.2hrs/trip. An est. 80% of earth rock mixture is sutible subgrade material.

Total loose Truck Haul			**10276**
Total Clean Fill			**5231**
Loose To Spur 1 Lift			1307
Spur 1 B lift			386
Spur 1 C Lift			256
Spur 1 D Lift			204
9+42			778
Switch Back			1643
42+46			4505
Waste Area			1197

Clean Fill Needed						
9+42	**42+46**	**Switch Back**	**Road Spur 1**	**Road Spur 1B**	**Road Spur 1C**	**Road Spur 1D**
396	2183	836	665	197	130	104
Total	**4511**					

End Haul For Pontius Rd. (2 of 2)

Hourly Costs		Spur 1 to lift 1	Spur 1 to Fill 3 1	Spur 1A to 1b	Spur 1A to 1C	Spur 1A to 1D	Spur 1A to W1	Landing 1 to Fill 1	Landing 1 to Waste	Knob 2 to F2	Knob 2 to F3	Knob 2 to Waste
Hourly Rate for a truck W/ Inflation		$202	$202	$202	$202	$202	$202	$202	$202	$202	$202	$202
Number of trucks		2	2	2	2	2	2	2	2	2	2	2
escavator = operator		$ 174.00	$ 174.00	$ 174.00	$ 174.00	$ 174.00	$ 174.00	$ 174.00	$ 174.00	$ 174.00	$ 174.00	$ 174.00
Total		$ 577.98	$ 577.98	$ 577.98	$ 344.00	$ 344.00	$ 344.00	$ 344.00	$ 344.00	$ 344.00	$ 344.00	$ 344.00
Haul Speed	mph	5	5	5	5	5	5	5	5	5	5	5
Distance	miles	0.2	0.41	0.2	0.29	0.43	0.2	0.0005	0.27	0.00005	0.31	0.08
Time	hrs	0.08	0.164	0.08	0.12	0.17	0.08	0.00	0.43	0.00	0.12	0.03
Dump and Load	hrs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
total time		0.28	0.36	0.28	0.32	0.37	0.28	0.20	0.63	0.20	0.32	0.23
Loads per hr (1 Truck)		3.6	2.7	3.6	3.2	2.7	3.6	5.0	1.6	5.0	3.1	4.3
Yds per hr		157	121	157	139	118	157	220	70	220	136	190
Cost per Cu. Yd		$ 3.68	$ 4.78	$ 3.68	$ 2.47	$ 2.91	$ 2.19	$ 1.57	$ 4.93	$ 1.56	$ 2.53	$ 1.81

Stump Endhaul		
Hourly Costs		
Hourly Rate for a truck		
Number of trucks	$90	
escavator + opperator	$1	
Total	$174	
	$259	
Haul Speed	10	mph
Time	0.024	hours
Dump and Load	0.42	hours
total time	0.444	hours
Loads/hr	2.252252252	
Stumps/hr	11	
Cost/Stump	$ 23.00	
Stumps/Acre	95	
Approx Acres	2.72	

State Timber Sale Contract
WL-341-2020-W00577-01
Pontius Creek

Final Road Maintenance Cost Summary

Totals	Spur 1	Spur 1a	Spur 1b	Spur 1c	Spur 1d	Swamp Creek (16-7-6)	16-8-1	**TOTAL**
Stations	50.88	6.15	3.8	2.5	2	30.45	96.03	
Cost/Sta	$ 56.52	$ 51.68	$ 53.88	$ 72.35	$ 85.85	$ 19.50	$ 9.67	
Total Cost	**$ 2,875.61**	**$ 317.85**	**$ 204.73**	**$ 180.88**	**$ 171.70**	**$ 593.76**	**$ 928.26**	**$ 5,274**

Spot Rocking	Spur 1	Spur 1a	Spur 1b	Spur 1c	Spur 1d	Swamp Creek (16-7-6)	16-8-1	**TOTAL**
Total Yds	40	0	0	0	0	0	20	
Rock Size	1 1/2"-0"	3"-0"	3"-0"	3"-0"	3"-0"	3"-0"	1 1/2"-0"	
$/yd	$20.80	$20.39	$20.39	$20.39	$20.39	$20.39	$ 23.77	
Subtotal	$ 832	$ -	$ -	$ -	$ -	$ -	$ 475	**$ 1,307**

Grade,Shape & Pull Ditches	Spur 1	Spur 1a	Spur 1b	Spur 1c	Spur 1d	Swamp Creek (16-7-6)	16-8-1	**TOTAL**
Stations	50.88	6.15	3.80	2.50	2.00	30.45	24.68	
$/STA	$ 18.35	$ 18.35	$ 18.35	$ 18.35	$ 18.35	$ 18.35	$ 18.35	
Subtotal	$ 934	$ 113	$ 70	$ 46	$ 37	$ 559	$ 453	**$ 2,212**

Install Waterbars	Spur 1	Spur 1a	Spur 1b	Spur 1c	Spur 1d	Swamp Creek (16-7-6)	16-8-1	**TOTAL**
# of waterbars	26.00	3.00	1.00	1.00	1.00	1.00	0.00	
$/waterbar	$35.00	$35.00	$35.00	$35.00	$35.00	$35.00	$35.00	
Subtotal	$ 910.00	$ 105.00	$ 35.00	$ 35.00	$ 35.00	$ 35.00	$ -	**$ 1,155.00**

Landing clean up	Spur 1	Spur 1a	Spur 1b	Spur 1c	Spur 1d	Swamp Creek (16-7-6)	16-8-1	**TOTAL**
Stations	2.00	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	$ 200	$ 100	$ 100	$ 100	$ 100	$ -	$ -	**$ 600**

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 **$ 6,774**

Howard 10/24/2019

State Timber Sale Contract
Pontius Crk.
WL-341-2020-W00783-01

67+60 Log Removal Project
Project # 3

Construct Access to Log Debris and Remove

	Cost/Sta	# of Stations	Bench Cost
Pioneer Bench	$ 400.00	1	$ 400.00

	Cost/Yd.	# of Yds.	End Haul Cost
End Haul	$ 4.50	200	$ 900.00

Total Cost $ 1,300.00

Fill Constructions

	Cost/hr.	hrs.	Embankment Cost
Embankment Construct	$ 174.00	2	$ 348.00

	Cost/hr.	hrs.	Machine Cost
Machine Place Material	$ 174.00	4	$ 696.00

	Cost/hr.	hrs.	Compaction Cost
Compact	$ 100.00	2	$ 200.00

Total Cost $ 1,244.00

Total Project Costs $ 2,544.00

State Timber Sale Contract
Pontius Crk.
WL-341-2020-W00783-01

Stream Crossing "Project # 4"

Fill Construction At Stream Crossing "42+60"

Borrow Waste Transport Productivity

AVG Round Trip Miles	Avg. Speed (MPH)	Dump & Load Time	hrs./trip	# of Trucks
0.1	10	0.2	0.2	3
Loads/hr.	Yds./Load	Yds./hr.	**Yds./Day**	
4.9	10	146	**1019**	

Spread and Construct Crossing

Dozer cost/hr.	Productive Machine Hours	Daily Cost
$ 150.00	7	$ 1,050.00

Total Cost/Cu. Yds. **$ 1.03**

Fill Construction Cost

Cu. Yds.	$/Yd^3	**Total Cost**
1589	$ 1.03	**$ 1,636.67**

Pipe Install

Transport	Pipe Transport	# of pipes	Cost
	$ 500.00	1	$ 500.00

Cost of Pipe	cost/lf	length of pipe	# of Pipes	Total Cost
24	$ 18.12	40	1	$ 724.80

Total Cost **$ 1,224.80**

Install	Bedding /Backfill Cu.Yds	Cost/Cu. Yd.	**Rock Costs**
	30	$5.00	**$ 150.00**
	Excavator Cost/hr.	hrs. Allocated	**Excavator Cost**
	$174	6	**$ 1,044.00**

Compaction	Hand Held Compactor Cost/hr.	hrs.	**Compaction Cost**
	$100	3	**$ 300.00**

Total Cost **$ 1,494.00**

Seed And Mulch "Crossing fill slopes "

Mulch	Rate	Acres	# of Bales	Cost/Bale	Cost of Mulch
	1 ton/Acre	0.14	5	$ 5.00	$ 25

Seed	Rate "lbs./Acre"	Acres	Lbs. of Seed	Cost/Bag	Cost of Seed
	100	0.14	14.00	$ 70.00	$ 70.00

Personnel	Personnel	Rate	Hrs./Acre	Cost/Acre	Cost of Personnel
	2	$ 30.00	6	$ 360.00	$ 50.40

Seed and Mulch Cost

Acres	$/Acre	Total Cost
0.14	$ 1,038.57	**$ 145.40**

Total Project Cost **$ 4,500.87**

Hufman [date]

State Timber Sale Contract
WL-341-2020-W00783-01
Pontius Crk.

Rocking and Compaction

Rock Source: Commercial Quarry

Rock Quantity (Inplace)

(3" - 0")

Base Rock	Spur 1	Spur 1a	Spur 1b	Spur 1c	Spur 1d	Swamp Creek (16-7-6)	**TOTAL**
Rock Size	3"-0"	3"-0"	3"-0"	3"-0"	3"-0"	3"-0"	
Stations	50.88	6.15	3.80	2.50	2.00	0.00	66.00
Approx yds/sta	33	33	33	33	33	33	
Subtotal base (cu. yds)	**1680**	**200**	**130**	**80**	**70**	**0**	**2160**

Cap Rock	Spur 1	Spur 1a	Spur 1b	Spur 1c	Spur 1d	Swamp Creek (16-7-6)	**TOTAL**
Rock Size	1 1/2"-0"	1 1/2"-0"	1 1/2"-0"	1 1/2"-0"	1 1/2"-0"	1 1/2"-0"	
Stations	50.88	6.15	3.8	2.5	2		66.00
Approx yds/sta	11	11	11	11	11	11	
Subtotal cap (cu. yds)	**560**	**70**	**40**	**30**	**20**	**0**	**720**

Landings	Spur 1	Spur 1a	Spur 1b	Spur 1c	Spur 1d	Swamp Creek (16-7-6)	**TOTAL**
Rock Size	Pit Run	Pit Run	Pit Run	Pit Run	Pit Run	0	
Stations	2.00	1.00	1.00	1.00	1.00		6.00
Approx yds/sta	40	40	40	40	40		
Subtotal base (cu. yds)	**80**	**40**	**40**	**40**	**40**	**0**	**240**

Additional Rock	Spur 1	Spur 1a	Spur 1b	Spur 1c	Spur 1d	Swamp Creek (16-7-6)	**TOTAL**
Rock Size	3"-0"	3"-0"	3"-0"	3"-0"	3"-0"	1 1/2"-0"	
Turnouts and Turn-Arounds	7	1	1	1	1	0	11.00
Approx cu. yds	20	20	20	20	20	20	
Subtotal Tunouts/Around (cu. yds)	**140**	**20**	**20**	**20**	**20**	**0**	**220**
Rock Size	3"-0"	3"-0"	3"-0"	3"-0"	3"-0"	1 1/2"-0"	
Number of Points	1	0	0	0	0	9	
Curve Widening/Spot Rocking (Yds)	170	50	0			11	
Subtotal Spot/Widening Rock	**170**	**0**	**0**		**0**	**100**	**270**

Energy Dissipator Yds.	Spur 1	Spur 1a	Spur 1b	Spur 1c	Spur 1d	Swamp Creek (16-7-6)	
Rock Size	Rip Rap	Rip Rap	Rip Rap	Rip Rap	Rip Rap	Rip Rap	
Approx. Total (cu. Yds.)	80	0	0	0		**0**	**80**

ROCK COST (Rock + Delivery)

Road Segment/Name	Spur 1	Spur 1a	Spur 1b	Spur 1c	Spur 1d	Swamp Creek (16-7-6)	**TOTAL**
Rock Size	3"-0"	3"-0"	3"-0"	3"-0"	3"-0"	3"-0"	
Approx cu. yds	1680	200	130	80	70	0	2160
Cost/yd (includes load/spread)	$ 20.39	$ 20.39	$ 20.39	$ 20.39	$ 20.39	$ 20.39	
Subtotal Cost "Base" Rock	**$ 34,262**	**$ 4,079**	**$ 2,651**	**$ 1,632**	**$ 1,428**	**$ -**	**$ 44,052**

Rock Size	1 1/2"-0"	1 1/2"-0"	1 1/2"-0"	1 1/2"-0"	1 1/2"-0"	1 1/2"-0"	
Approx cu. yds	560	70	40	30	20	0	720
Cost/yd (includes load/spread)	$20.80	$20.80	$20.80	$20.80	$20.80	$20.80	
Subtotal Cost "Cap" Rock	**$ 11,648**	**$ 1,456**	**$ 832**	**$ 624**	**$ 416**	**$ -**	**$ 14,976**

Rock Size	3"-0"	3"-0"	3"-0"	3"-0"	3"-0"	1 1/2"-0"	
Approx cu. yds **Tunouts/Arounds**	140	20	30	20	20	0	230
Cost/yd (includes load/spread)	$ 20.39	$20.39	$20.39	$20.39	$20.39	$20.80	
Subtotal	$2,855.16	$407.88	$611.82	$407.88	$407.88	$0.00	
Rock Size	3"-0"	3"-0"	3"-0"	3"-0"	3"-0"	1 1/2"-0"	
Approx cu. Yds **Spot/Widening**	170	0	0	0	0	100	270
Cost/yd (includes load/spread)	$20.39	$20.39	$20.39	$20.39	$20.39	$20.80	
Subtotal	$3,466.98	$0.00	$0.00	$0.00	$0.00	$2,079.90	
Rock Size	Rip Rap	Rip Rap	Rip Rap	Rip Rap	Rip Rap	Rip Rap	
Approx cu. Yds **Energy Disipator**	30	10	0	0	0	0	40
Cost/yd (includes load/spread)	$50.09	$50.09	$50.09	$50.09	$50.09	$50.09	
Subtotal	$1,502.82	$500.94	$0.00	$0.00	$0.00	$0.00	
Subtotal Cost "Additional" Rock	**$ 7,825**	**$ 408**	**$ 612**	**$ 408**	**$ 408**	**$ 2,080**	**$ 11,741**

Rock Size	Pit Run	Pit Run	Pit Run	Pit Run	Pit Run	$ -	
Approx cu. yds	**80**	**40**	**40**	**40**	**40**	**0**	**240**
Cost/yd (includes load/spread)	$ 22.42	$ 22.42	$ 22.42	$ 22.42	$ 22.42	$ 22.42	
Subtotal Cost "Landing" Rock	**$ 1,794**	**$ 897**	**$ 897**	**$ 897**	**$ 897**	**$ -**	**$ 5,382**

Grand total quarry approx yds	2630	330	240	170	150	100	3620
Total Quarry Rock Cost	**$ 55,528**	**$ 6,839**	**$ 4,992**	**$ 3,560**	**$ 3,148**	**$ 2,080**	**$ 76,147**

Compaction w/Processing	Spur 1	Spur 1a	Spur 1b	Spur 1c	Spur 1d	Swamp Creek (16-7-6)	**TOTAL**
Cost/Cu. Yd.	$2.00	$2.00	$2.00	$2.00	$2.00	$2.00	
Subtotal Processing	**$ 5,260**	**$ 660**	**$ 480**	**$ 340**	**$ 300**	**$ 200**	**$ 7,240**

$/yd³ rock in place & compacted	Spur 1	Spur 1a	Spur 1b	Spur 1c	Spur 1d	Swamp Creek (16-7-6)	**Total**
Total Rock Costs	**$60,788**	**$7,499**	**$5,472**	**$3,900**	**$3,448**	**$2,280**	**$ 83,387**

Move-in included in subgrade construction

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

Summary of "Other Costs" for Timber Sale Appraisals

Pontius Crk. WL-341-2020-W00783-01

"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

	Units	Quantity	Cost/Unit	Total Cost
Final Road Maintenance	Operation			$ 6,774
BLM Road Maintenance and Rock Wear Fees	Operation			$ 21,932
Weyerhaeuser Road Wear Rock	yd^3	76	$20.80	$ 1,581
Total "Other Costs" With No Additional Profit and Risk:				**$ 30,287**
Cost per MBF 3,981 MBF				**$ 7.61**

Cruise Report

Pontius Creek

SALE # 341-2020-W00783-01

Sale Area: Portions of Section 12, T16S, R8W, W.M., Lane County, Oregon. The sale's net harvestable acres are 89. There are approximately 15 acres of stream buffers. Acres were determined using a combination of aerial photos, GPS, GIS, and topographic maps.

Stand Description: Pontius Creek 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 slopes are primarily 65% 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 southern 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 from the Green Light Timber Sale was used for grade volume percentage, total MBF and MBF/acre volume.

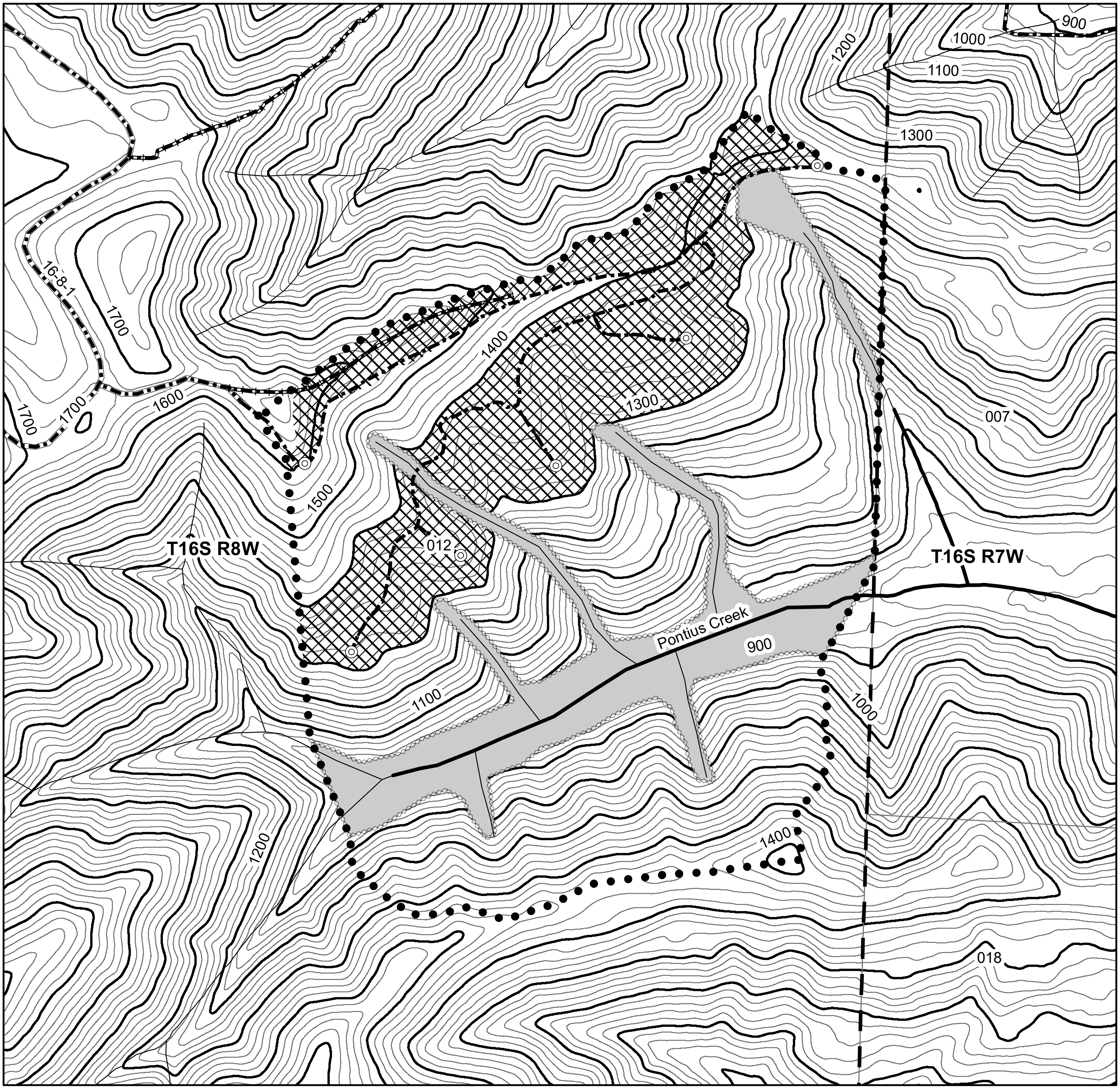
Volume Tables: Volumes were computed using cut-out data from the Green Light Timber Sale.

Area 1, 2 & 3 Net Cruised Volume (MBF)

Species	Avg. DBH	Special Mill	2 Saw	3 Saw	4 Saw	Camp Run	Sub-Total
Douglas-fir	17	90	2822	923	132		3967
Western hemlock	17		15	6	1		22
Red alder	15					13	13
Big leaf maple	19					1	1
					Total (MBF):	**4003**	

Note: A breakage and defect was applied to the volume in the appraisal.

Average MBF/Acre: 45



Logging Map

OF TIMBER SALE CONTRACT NO. 341-2020-W00783-01
PONTIUS CREEK
PORTIONS OF SECTIONS 12, T16S, R8W, W.M.
LANE COUNTY, OREGON

TOTAL NET ACRES = 89

Contours = 20ft

Legend

- New Construction
- Timber Sale Boundary
- ODF Ownership
- Surfaced road
- Dirt/Primitive Road - driveable
- Old road bed - not driveable
- New Construction
- Fish
- Nonfish
- Stream Buffer
- Ground Based
- Landing to Construct

0 250 500 1,000 Feet

1 inch = 500 feet

N

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.

OREGON DEPARTMENT OF FORESTRY

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