



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Apparently Not
Sale WO-341-2019-W00227-01

District: West Oregon

Date: August 27, 2018

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$574,942.80	\$0.00	\$574,942.80
		Project Work:	\$0.00
		Advertised Value:	\$574,942.80



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Timber Description

Location: Portions of Sections 35 and 36, T11S, R9W, W.M., Lincoln County, Oregon.

Stand Stocking: 40%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	12	0	95

Volume by Grade	2S	3S	4S	Total
Douglas - Fir	120	1,116	462	1,698
Total	120	1,116	462	1,698

Comments: Pond Values Used: July 2018 Local Pond Values.

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost:
\$960.40/MBF = \$1,315/MBF - \$354.60/MBF

Red Alder and Other Hardwoods Stumpage Price = Pond Value minus Logging Cost:
\$351.40/MBF = \$656/MBF - \$304.60/MBF

Western hemlock and Other Conifers Stumpage Price = Pond Value minus Logging Cost:
\$312.40/MBF = \$617/MBF - \$304.60/MBF

Pulp (Conifer and Hardwood) Price = \$3.50/Ton

Other Costs (with Profit & Risk to be added):
Intermediate Supports/Tail Trees: 8 trees @ \$100/tree = \$800
TOTAL Other Costs (with Profit & Risk to be added) = \$800

Other Costs (No Profit & Risk added):
Invasive Species Equipment Cleaning: \$2,000
Firewood Sorting: 8 Landings @ \$100/Landing = \$800
Non-Project Road/Landing = \$1,575
Water Bar Dirt Roads: 117 stations @ \$15.96/station = \$1,867
TOTAL Other Costs (No Profit & Risk added) = \$6,242

SLASH DISPOSAL

Move-in: Use log loader already on site.
Project Work: \$1,650
TOTAL Slash Disposal = \$1,650

ROAD MAINTENANCE

Move-in: Grader x 2 = \$1,556
Interim Grading: 3.7 miles, \$3,000
Final Maintenance: 8.2 miles, \$6,505
Maintenance Rock: \$1,225
TOTAL Road Maintenance: \$12,290/1,698MBF = \$7.24/MBF



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Logging Conditions

Combination#: 1 Douglas - Fir 11.01%

Logging System: Shovel **Process:** Harvester Head 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: 18 **bd. ft / load:** 3800

cost / mbf: \$78.13

machines: Forwarder
Harvester

Combination#: 2 Douglas - Fir 71.19%

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

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

tree size: Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF

loads / day: 12 **bd. ft / load:** 3700

cost / mbf: \$120.36

machines: Forwarder
Harvester

Combination#: 3 Douglas - Fir 17.80%

Logging System: Cable: Small Tower <=40 **Process:** Harvester Head Delimbing

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

tree size: Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF

loads / day: 5 **bd. ft / load:** 3700

cost / mbf: \$398.94

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



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Logging Costs

Operating Seasons: 2.00	Profit Risk: 12%
Project Costs: \$0.00	Other Costs (P/R): \$800.00
Slash Disposal: \$1,650.00	Other Costs: \$6,242.00

Miles of Road

Road Maintenance: \$7.24

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	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									
\$165.29	\$7.60	\$5.17	\$87.50	\$0.47	\$31.92	\$0.97	\$2.00	\$3.68	\$304.60

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$643.20	\$338.60	\$0.00



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Summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	1,698	\$338.60	\$574,942.80

Gross Timber Sale Value

Recovery: \$574,942.80

Prepared By: Jon Long

Phone: 541-929-9169

SUMMARY OF MAINTENANCE COST

SALE	Apparently Not	- Final Maintenance Cost Estimate (Costed in appraisal, not in project costs)
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Grading	Move-in	Grader (X 2)	\$	1,556
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Interim Maintenance (Spot Grading)

Road Segment	Length	Cost/Sta	Cost	Mileage
Salmon Creek Road	70	\$15.40	\$1,078.00	1.33
Wolf Creek Road	80	\$15.40	\$1,232.00	1.52
I1 to I15	45	\$15.40	\$693.00	0.85
Total	195.0		\$3,003.00	3.69

Final Maintenance

Road Segment	Length	Cost/Sta	Cost	Mileage
Salmon Creek Road	139.3	\$15.40	\$2,145.22	2.64
Wolf Creek Road	173.8	\$15.40	\$2,676.52	3.29
I1 to I15	91.6	\$13.75	\$1,259.50	1.73
I9 to I10	8.1	\$13.75	\$111.38	0.15
3A to 3B	3.4	\$13.75	\$46.75	0.06
I13 to I14	14.4	\$13.75	\$198.00	0.27
I18 to I19	4.4	\$15.40	\$67.76	0.08
Total	435.0		\$6,505.13	8.24

Maintenance Rock:

	Volume	Cost/CY	Cost
1½-0"	200	\$5.20	\$1,040.00
3-0"	70	\$2.65	\$185.50

Grand Total	\$ 12,289.63
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TS Volume 1,698 MBF

Cost / MBF = \$7.24

NOTES:

TIMBER CRUISE REPORT

1. **Sale Area Location:** Portions of Sections 35 & 36, T11S, R09W, W.M., Lincoln County, Oregon

2. **Fund Distribution:**

- a. **Fund** BOF 100%
- b. **Tax Code**

3. **Sale Acreage by Area:**

Area	Treatment	Gross Acres	Stream Buffers	* Non-Thinable Acres	Existing Roads	Net Sale Acres	Acreage Comp. Method
1	Modified Clearcut	13	3		1	9	Ortho photo, GIS, GPS
2	Partial Cut	115	8		8	99	Ortho photo, GIS, GPS
3	Partial Cut	33	2		1	30	Ortho photo, GIS, GPS
4	Partial Cut	43	1	19	2	21	Ortho photo, GIS, GPS
Total		204	14	19	12	159	

* Approximately 19 acres along Wolf Creek have already been thinned in Area 4 from a previous sale.

4. **Cruisers and Cruise Dates:** The sale area was cruised by Matt McBride and Evelyn Hukari in January of 2017.

5. **Cruise Method and Computation:** The sale consists of one modified clearcut area and three partial cut areas that were cruised using variable plot sampling. All areas were cruised using a 20 BAF. Plots were randomly located throughout each area with 10 plots sampled in Area 1, 25 plots sampled in Area 2, 13 plots sampled in Area 3 and 11 plots sampled in Area 4. Trees representative of take trees on each plot were measured for DBH and height. A total of 11 trees on Area 1, 18 trees on Area 2, 10 trees on Area 3, and 14 trees on Area 4 were measured. Data for Area 1 was entered into the Atterbury SuperACE 2008 cruise program to calculate net board feet per acre. Data for Areas 2, 3, and 4 was entered into a variable plot density management worksheet to determine removal volumes. Standard grade, defect, and breakage percentages were applied to the resulting volumes. An in-growth volume of 5 percent was also applied to the gross volume.

Stereo photos, digital ortho photos, LiDar data, and GPS data from a Garmin GPSmap 64st were used to map the boundaries for the sale, and ArcMap 10.4.1 was used to determine gross acreage.

6. **Measurement Standards:** Tree heights were measured to the nearest foot, to a top diameter of 7 inches outside bark. Diameters were measured to the nearest inch, and a standard form factor of 87 was used. Most trees were graded in 40 foot log segments unless breakage, defect, or length to top of grade cruise diameter warranted otherwise.

7. **Timber Description:** Timber in Area 1 is 42 year-old planted Douglas-fir. Area 2 contains 30 to 38 year-old planted Douglas-fir, Area 3 contains 34 year-old planted Douglas-fir, and Area 4 contains 35 year-old planted Douglas-fir. Reserved tree species detected in these units include western red cedar, western hemlock, red alder and bigleaf maple. Reserved trees were found in small amounts throughout all areas.

8. Total Volume (MBF) by Species and Grade:

Species	Gross Cruise Volume	Hidden D & B	Hidden D & B (MBF)	In-growth (5%)	Net Sale Volume
Area 1					
Douglas-fir	182	2%	4	9	187
Area 2					
Douglas-fir	1,016	2%	20	51	1,047
Area 3					
Douglas-fir	274	2%	5	14	283
Area 4					
Douglas-fir	176	2%	4	9	181
Total					
Douglas-fir	1,648	2%	32	82	1,698

Species	DBH	Net Vol.	2-Saw	3-Saw	4-Saw
Area 1	Grade Percentages		64%	31%	5%
Douglas-fir	20	187	120	58	9
Area 2	Grade Percentages		--	70%	30%
Douglas-fir	12	1,047	--	733	314
Area 3	Grade Percentages		--	70%	30%
Douglas-fir	12	283	--	198	85
Area 4	Grade Percentages		--	70%	30%
Douglas-fir	10	181	--	127	54
Total	Grade Percentages		7%	66%	27%
Douglas-fir	12	1,698	120	1,116	462

Attachments: Density Management Worksheets
Species, Sort Grade – Board Foot Volumes
Statistics
Stand Table Summary
Log Stock Table - MBF

Prepared by: Jon Long Date: 7/25/2018

Unit Forester: Evelyn Hukari Date: _____



Oregon Department of Forestry
OPERATIONAL PERIODS and SEASONAL RESTRICTIONS
West Oregon, NWOA
24533 ALSEA HWY, PHILOMATH, OR 97370
(541) 929-3266

Sale Number
WO-341-2019-W00227-01

Sale Name
Apparently Not

Expiration Date
October 31, 2020

Harvesting	Comments	Units	Project	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec		Date
				1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	
Felling - Complete all Felling by	Area 1 and portions of Areas 2 and 3 as shown on Exhibit A	1, 2, 3																									3/15/2019	
Ground yarding																												
Other	Activity in "Live" Streams																											

Hauling	Comments	Units	Project	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec		Date
				1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	
Hauling as shown on Exhibit A	Hauling on Salmon Creek Road																											
Log Hauling on Unsurfaced Roads																												
Other	Operations on non-project roads and Landings																											

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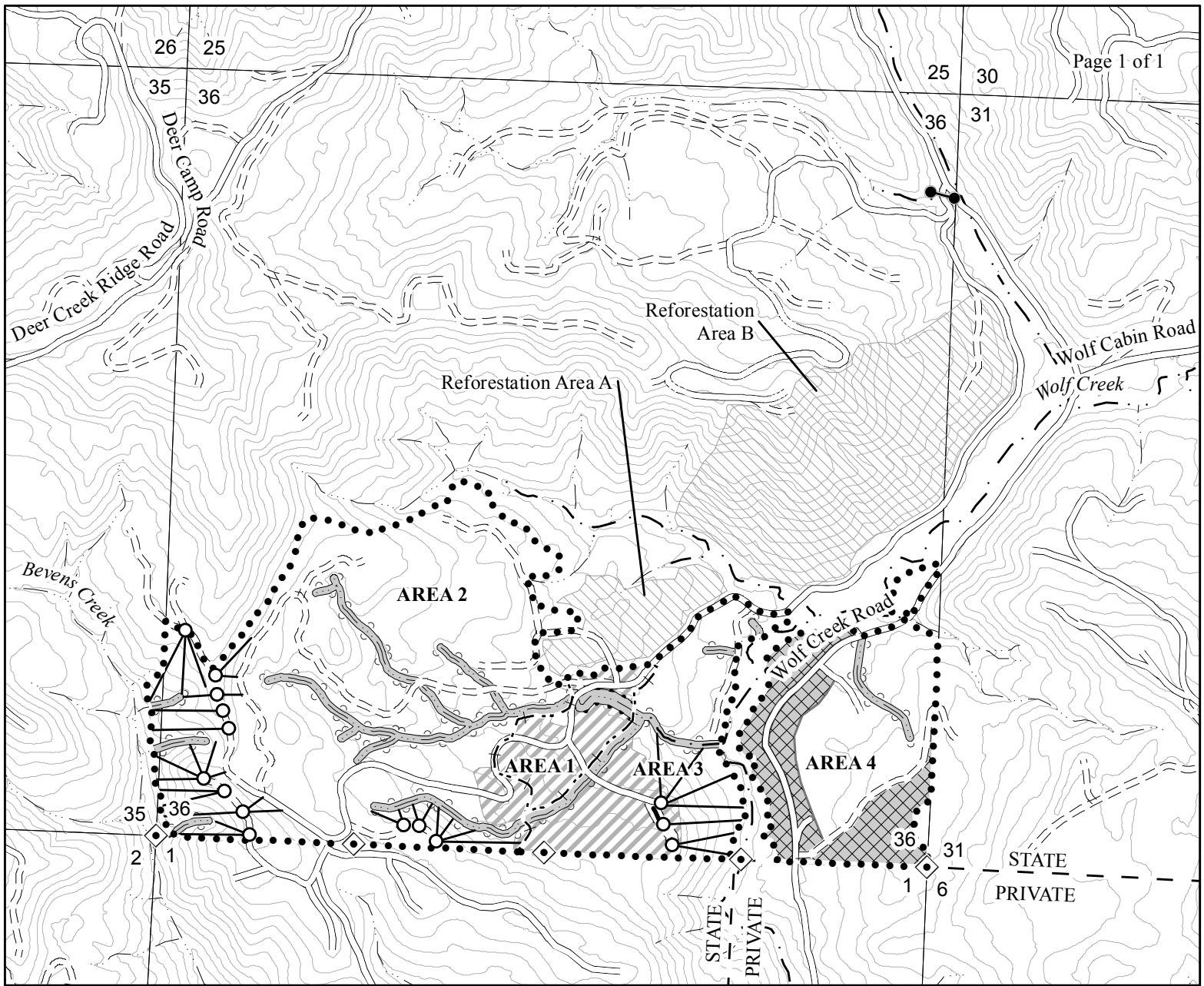
Operation Allowed

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Operation Restricted

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Activity Restricted 2 hours before sunset and 2 hours after sunrise



Legend

Boundaries

- Timber Sale Boundary
- + - - Area Boundary (Posted)
- - - State Forest Property Boundary
- - - Right of Way (Posted)

Roads

- ==== Surfaced Road
- == == Unsurfaced Road
- — New Construction

Streams

- — · Type F Stream
- Type N Stream
- Posted Stream Buffer
- ~~~~~ Unposted Stream Buffer
- Stream Buffer
- Reforestation Area

- Cable Corridors
- Landings
- ◆ Land Survey Monument
- Gates

- Partial Cut Not Required
- NSO Felling Restriction Area

LOGGING PLAN

OF TIMBER SALE CONTRACT NO. WO-341-2019-W00227-01
 APPARENTLY NOT
 PORTIONS OF SECTIONS 35 & 36, T11S, R9W, W.M.,
 LINCOLN COUNTY, OREGON

	NET ACRES TRACTOR	NET ACRES CABLE
1 (MC)	9	0
2 (PC)	78	21
3 (PC)	20	10
4 (PC)	21	0
TOTAL	128	31

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

Scale

1:12,000



Created By: Blake McKinley
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 Date: 08/15/2018