



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Wickiup
Sale AT-341-2022-00875 -01

District: Astoria

Date: February 01, 2022

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$1,595,993.15	\$215,249.10	\$1,811,242.25
		Project Work:	(\$278,132.00)
		Advertised Value:	\$1,533,110.25



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District: Astoria

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Timber Description

Location:

Stand Stocking: 80%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	25	0	97
Western Hemlock / Fir	16	0	96
Sitka Spruce	20	0	97
Alder (Red)	14	0	95

Volume by Grade	2S	3S & 4S 6"-11"	8" - 9"	10" - 11"	12"+	6" - 7"	Total
Douglas - Fir	460	58	0	0	0	0	518
Western Hemlock / Fir	1,390	1,358	0	0	0	0	2,748
Sitka Spruce	960	509	0	0	0	0	1,469
Alder (Red)	0	0	52	178	248	149	627
Total	2,810	1,925	52	178	248	149	5,362

Comments: Pond Values Used: Local Pond Values, December, 2022.

Expected Log Markets: Tillamook, Warrenton, Garibaldi, Banks, North Plains, Forest Grove, Longview, WA, and Chehalis, WA.

PRICING:

Western Red Cedar and other Cedars stumpage = pond value - (Western hemlock) logging cost.
\$907.67/MBF = \$1,186/MBF - \$278.33/MBF

Other Costs (with Profit & Risk to be added):

Machine Washing for Invasive Weed Compliance = \$2,000

Ditch Filters:

20 bales of straw @ \$12/bale = \$240

2 hours of labor @ \$45/hr = \$90

TOTAL Other Costs (with Profit & Risk to be added):\$2,330

Other Costs (No Profit & Risk added):

None.

SLASH PILING

(See attached appraisal. Includes move-in, pile materials, and end-hauling) = \$17,186.67

ROAD MAINTENANCE

(See attached Road Maintenance Cost Summary Sheet)

TOTAL Road Maintenance: \$23,075/5,362 MBF = \$4.30/MBF



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Logging Conditions

Combination#: 1

Douglas - Fir	99.00%
Western Hemlock / Fir	99.00%
Sitka Spruce	99.00%
Alder (Red)	99.00%

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

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

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

loads / day: 9 **bd. ft / load:** 4600

cost / mbf: \$164.25

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

Combination#: 2

Douglas - Fir	1.00%
Western Hemlock / Fir	1.00%
Sitka Spruce	1.00%
Alder (Red)	1.00%

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

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

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

loads / day: 12 **bd. ft / load:** 4600

cost / mbf: \$71.33

machines: Shovel Logger



"STEWARDSHIP IN FORESTRY"

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Wickiup
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District: Astoria

Date: February 01, 2022

Logging Costs

Operating Seasons: 3.00

Profit Risk: 12%

Project Costs: \$278,132.00

Other Costs (P/R): \$2,330.00

Slash Disposal: \$17,186.67

Other Costs: \$0.00

Miles of Road

Road Maintenance: \$4.30

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	4.9
Western Hemlock / Fir	\$0.00	3.0	4.5
Sitka Spruce	\$0.00	2.0	4.8
Alder (Red)	\$0.00	3.0	3.5



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Wickiup
Sale AT-341-2022-00875 -01

District: Astoria

Date: February 01, 2022

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas - Fir									
\$163.32	\$4.43	\$2.46	\$66.57	\$0.43	\$28.47	\$3.21	\$2.00	\$0.00	\$270.89
Western Hemlock / Fir									
\$163.32	\$4.47	\$2.46	\$73.18	\$0.43	\$29.26	\$3.21	\$2.00	\$0.00	\$278.33
Sitka Spruce									
\$163.32	\$4.43	\$2.46	\$101.93	\$0.43	\$32.71	\$3.21	\$2.00	\$0.00	\$310.49
Alder (Red)									
\$163.32	\$4.51	\$2.46	\$95.00	\$0.43	\$31.89	\$3.21	\$2.00	\$0.00	\$302.82

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$866.60	\$595.71	\$0.00
Western Hemlock / Fir	\$0.00	\$619.61	\$341.28	\$0.00
Sitka Spruce	\$0.00	\$548.46	\$237.97	\$0.00
Alder (Red)	\$0.00	\$646.12	\$343.30	\$0.00



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Wickiup
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District: Astoria

Date: February 01, 2022

Summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00
Western Hemlock / Fir	0	\$0.00	\$0.00
Sitka Spruce	0	\$0.00	\$0.00
Alder (Red)	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	518	\$595.71	\$308,577.78
Western Hemlock / Fir	2,748	\$341.28	\$937,837.44
Sitka Spruce	1,469	\$237.97	\$349,577.93
Alder (Red)	627	\$343.30	\$215,249.10

Gross Timber Sale Value

Recovery: \$1,811,242.25

Prepared By: John Czarnecki

Phone: 503-325-5451

Road Maintenance Cost Summary (Interim and Post Harvest)

Sale: Wickiup
Date: January 20, 2022
By: John Czarnecki *FL*

MBF: 5,362.00
\$/MBF: \$4.30

Type	Equipment/Rationale	Move-in Rate	Times	Hours	Rate	Cost
Interim Operations	Grader 14G	\$875	1	8	\$113	\$1,779
	Vibratory Roller	\$875	1	4	\$87	\$1,223
	Dump Truck 12CY	\$184	1	8	\$89	\$896
	Rubber tired backhoe	\$361	1	4	\$87	\$709
Interim Operations	Grader 14G	\$875	1	8	\$113	\$1,779
Final Road Maintenance	Grader 14G	\$875	1	44	\$113	\$5,847
	Dump Truck 12CY	\$184	2	16	\$89	\$1,792
	Vibratory Roller	\$875	1	44	\$87	\$4,703
	Water Truck 2,500 gallon	\$214	1	20	\$101	\$2,234
	Rubber tired backhoe	\$361	1	16	\$87	\$1,753
	Labor			8	\$45	\$360
Total						\$23,075

Interim Operations Road Maintenance

Production Rates	Miles/day	Distance (miles)	Days	Hours
Grader	2.5	2.50	1.0	8

Final Road Maintenance

Production Rates	Miles/day	Distance (miles)	Days	Hours
Grader	1.5	8.20	5.5	44
Vibratory Roller	1.5	8.20	5.5	44

Process and compact: All crushed rock roads

Simmons Ridge Road: 4.3 Miles

Klaskanine Crossover Road: 2.0 Miles

Unnamed Spur Roads: 1.9 Miles

Grade & Process Total = 8.2 Miles

Sale Number: AT-341-2022-W00875-01
Sale Name: Wickiup
Date: 01/20/2022

Sale Area	Harvest Type	Veg Type/Zone	Ground Based Yarding Acres	Estimated Piling Hours/Area	Cost/Hour	Total Cost/Area
1	MC	C	0	0	\$145.00	\$0.00
					\$145.00	\$0.00
					\$145.00	\$0.00
					\$145.00	\$0.00
				In-unit Piling	Sub Total =	\$0.00
	Number of Landings to be # cable acres piled per area					
Sale Area	Piled	# cable acres per area	Total Cost/Area	Number of In-Unit Piles	Material Cost/Pile	Total Cost/Area
1	15	107	\$5,171.67	15	\$5.00	\$75.00
					\$5.00	\$0.00
					\$5.00	\$0.00
					\$5.00	\$0.00
*Cost includes separating firewood				Materials	Sub Total =	\$75.00
	Additonal Move-in allowance				Landing Piling	Sub Total = \$5,171.67
Move-In Allowance	Number of Move-In's	Total Move-In Allowance				
\$1,290.00	2	\$2,580.00				
				Move-In	Sub Total =	\$2,580.00
Slash Endhaul						
Dump Truck hrs	Cost/Hour	Total	Loader hrs	Cost/Hour	Total	
40	\$89.00	\$3,560.00	40	\$145.00	\$5,800.00	
						Sub Total = \$9,360.00
						Grand Total = \$17,186.67

SUMMARY OF ALL PROJECT COSTS

SALE NAME: Wickiup

Project No. 1: ROAD CONSTRUCTION:

<u>Road segment</u>	<u>Length (Sta)</u>	<u>Length (Mile)</u>	<u>Cost</u>
1A to 1B	6.47	0.12	
1C to 1D	10.59	0.20	
1E to 1F	12.15	0.23	
			\$42,106.87
Road Maint.			\$819.60
Move-In			\$2,611.62
TOTALS	29.21	0.55	\$45,538

Project No. 2: ROAD IMPROVEMENT:

<u>Road segment</u>	<u>Length (Sta)</u>	<u>Length (Mile)</u>	<u>Cost</u>
I1 to I2	379.5	7.19	
I3 to I4	16.30	0.31	
			\$69,479.79
Road Maint.			\$1,352.40
Move-In			\$4,309.38
TOTALS		7.50	\$75,142

SPECIAL PROJECTS (Move-In and Road Maint. are included separately as needed, for each Special Project):

<u>Description</u>	<u>Length/Vol.</u>	<u>Cost</u>
Proj. 3 Rock Crushing	10,890	\$157,452
TOTAL		\$157,452

GRAND TOTAL \$278,132

Compiled By: D. Farner FL

Date: 07/08/2021

Move In and Maintenance Calculator for Construction and Improvement

SALE NAME: Wickiup

Project No. 1: ROAD CONSTRUCTION:

<u>Road segment</u>	<u>Length/Sta</u>	<u>Length/Mile</u>	<u>Cost</u>
1A to 1B	6.47	0.12	
1C to 1D	10.59	0.20	
1E to 1F	12.15	0.23	
			\$42,107
TOTALS	29.21	0.55	\$42,107

Project No. 2: ROAD IMPROVEMENT:

<u>Road segment</u>	<u>Length/Sta</u>	<u>Length/Mile</u>	<u>Cost</u>
11 to 12	379.50	7.19	
13 to 14	16.30	0.31	
			\$69,480
TOTALS	16.30	7.50	\$69,480

MOVE IN (Construction & Improvement Only)

<u>Equipment</u>	<u>Length/Mile</u>	<u>Cost</u>
Excavator (C330)		\$1,581.00
Dozer Large (D8)		\$1,581.00
Grader Large (14G)		\$875.00
Vibratory Roller		\$875.00
Water Truck (2,500 Gal)		\$214.00
Dump Truck (10/12 Yrd.) X5		\$920.00
Front End Loader Med. (C966)		\$875.00
TOTAL		\$6,921.00

ROAD MAINTENANCE (Construction & Improvement Only)

	<u>Length/Mile</u>	<u>Cost</u>
From Simmons Rdg. Rd. to Simmons Pit		\$2,172.00
TOTAL		\$2,172.00

SUMMARY OF CONSTRUCTION COSTS

SALE NAME: Wickiup
ROAD: 1A to 1B(0+00 to 6+50), 1C to 1D(0+00 to 10+60),
POINTS: 1E to 1F(0+00 to 12+15)
NEW CONSTRUCTION: 29.25 STATIONS
IMPROVEMENT: 379.50 STATIONS
0.55 MILES
7.19 MILES

CLEARING & GRUBBING						
	Method	Acres/amount	x	Rate	=	Cost
1A to 1B	0+00 to 6+47	0.59	x	\$ 1,503	=	\$886.77
						\$0.00
1C to 1D	0+00 to 10+59	0.97	x	\$ 1,503	=	\$1,457.91
						\$0.00
1E to 1F	0+00 to 12+15	1.12	x	\$ 1,503	=	\$1,683.36
SUB TOTAL FOR CLEARING & GRUBBING						\$4,028

EXCAVATION						
	Material	Cy/amount	x	Rate	=	Cost
1A to 1B						\$0.00
0+00 to 6+50	Full Design Common Drift < 50% slope	503.00	x	\$2.02	=	\$1,016.06
	Embankment Compaction	503.00	x	\$0.79	=	\$397.37
5+37	Turnaround Construction C330/HR.	2.00	x	\$175.00	=	\$350.00
6+50	Landing Construction	1	x	\$438.00	=	\$438.00
						\$0.00
1C to 1D						
0+00 to 10+60	Full Design Common Drift < 50% slope	829	x	\$2.02	=	\$1,674.58
	Embankment Compaction	829	x	\$0.79	=	\$654.91
4+58	Install culvert energy disapator Disp/each	1	x	\$203.00	=	\$203.00
4+82	Landing Construction	1.00	x	\$438.00	=	\$438.00
6+95	Install culvert energy disapator Disp/each	1.00	x	\$203.00	=	\$203.00
8+78	Turnaround Construction C330/HR.	2.00	x	\$175.00	=	\$350.00
10+60	Landing Construction	1.00	x	\$438.00	=	\$438.00
						\$0.00
						\$0.00
1E to 1F						
0+00 to 12+15	Full Design Common Drift < 50% slope	2,082	x	\$2.02	=	\$4,205.64
	Embankment Compaction	2,082	x	\$0.79	=	\$1,644.78
4+95	Turnaround Construction C330/HR.	2.00	x	\$175.00	=	\$350.00
6+47	Install culvert energy disapator Disp/each	1.00	x	\$203.00	=	\$203.00
7+18	Landing Construction	1.00	x	\$438.00	=	\$438.00
11+17	Install culvert energy disapator Disp/each	1.00	x	\$203.00	=	\$203.00
11+30	Turnaround Construction C330/HR.	2.00	x	\$175.00	=	\$350.00
12+15	Landing Construction	1.00	x	\$438.00	=	\$438.00
						\$0.00
						\$0.00
SUB TOTAL FOR EXCAVATION						\$13,004

CULVERT MATERIALS AND INSTALLATION									
Location	Dia/type	Lineal ft.	Rate	Cost	Location	Dia/type	Lineal ft.	Rate	Cost
1C to 1D					1E to 1F				\$0.00
4+58	18"CPP	40	\$22.49	\$899.60	6+47	18"CPP	30	\$22.49	\$674.70
6+95	18"CPP	30	\$22.49	\$674.70	11+17	18"CPP	30	\$22.49	\$674.70
Other/miscellaneous:				Description	Quantity	Rate	Cost		
Culvert stakes & markers:				Culvert Markers	4	\$23.00	\$92.00		
SUB TOTAL FOR CULVERT MATERIALS & INSTALLATION								\$3,016	
								Subtotal of Clearing, Exc., Culv.	\$20,048

SURFACING										Stations/ amount		Rate/ sta/amt	Cost	
Subgrade prep:				Description					x					
Grade, Shape and Ditch				1A to 1B(0+00 to 6+47), 1C to 1D(0+00 to 10-1E to 1F(0+00 to 12+15).				29.21	x		\$27.91	\$815.25		
Subgrade Compaction				1A to 1B(0+00 to 6+47), 1C to 1D(0+00 to 10-1E to 1F(0+00 to 12+15).				29.21	x		\$22.69	\$662.77		
ROAD SEGMENT 1A to 1B				POINT TO POINT				Sta. to Sta.		TOTAL VOLUME (CY)	Rate/ Sta./ amt.	Cost		
Application	Rock Size and Type	Location	Depth of Rock (Inches)	1A to 1B		0+00 to 6+47								
				Volume (CY) per		Number of								
Base Rock	4"-0" crushed	0+00 to 6+47	8"	station	50	stations	6.47	324	\$7.84	\$2,536				
Turnarounds	4"-0" crushed	5+37	N/A	turnaround	22	turnarounds	1	22	\$7.84	\$172				
Traction Rock	1 1/2"-0" crushed	0+00 to 6+47	2"	station	13	stations	6.47	84	\$7.84	\$659				
Traction Rock Turnaround	1 1/2"-0" crushed	5+37	N/A	turnaround	11	turnarounds	1	11	\$7.84	\$86				
Landings	6"-0"pit-run	6+47	N/A	landing	66	landings	1	66	\$10.24	\$676				
Total Rock for Road Segment:				1A to 1B						507				
ROAD SEGMENT 1C to 1D				POINT TO POINT				Sta. to Sta.		TOTAL VOLUME (CY)	Rate/ Sta./ amt.	Cost		
Application	Rock Size and Type	Location	Depth of Rock (Inches)	1C to 1D		0+00 to 10+59								
				Volume (CY) per		Number of								
Base Rock	4"-0" crushed	0+00 to 10+59	8"	station	50	stations	10.59	530	\$7.84	\$4,151				
Turnarounds	4"-0" crushed	8+78	N/A	turnaround	22	turnarounds	1	22	\$7.84	\$172				
Traction Rock	1 1/2"-0" crushed	0+00 to 10+59	2"	station	13	stations	10.59	138	\$7.84	\$1,079				
Traction Rock Turnaround	1 1/2"-0" crushed	5+37	N/A	turnaround	11	turnarounds	1	11	\$7.84	\$86				
Culvert Energy Dissipator	24" to 6" rip rap	4+58, 6+95	N/A	dissipator	11	dissipators	2	22	\$8.96	\$197				
Landings	6"-0"pit-run	4+82, 10+59	N/A	landing	66	landing	2	132	\$10.24	\$1,352				
Total Rock for Road Segment:				1C to 1D						854				
ROAD SEGMENT 1E to 1F				POINT TO POINT				Sta. to Sta.		TOTAL VOLUME (CY)	Rate/ Sta./ amt.	Cost		
Application	Rock Size and Type	Location	Depth of Rock (Inches)	1E to 1F		0+00 to 12+15								
				Volume (CY) per		Number of								
Base Rock	4"-0" crushed	0+00 to 12+15	8"	station	50	stations	12.15	608	\$7.84	\$4,763				
Turnarounds	4"-0" crushed	4+95, 11+30	N/A	turnaround	22	turnarounds	2	44	\$7.84	\$345				
Traction Rock	1 1/2"-0" crushed	0+00 to 8+00	2"	station	13	stations	8.0	104	\$7.84	\$815				
Traction Rock Turnaround	1 1/2"-0" crushed	4+95	N/A	turnaround	11	turnarounds	1	11	\$7.84	\$86				
Culvert Energy Dissipator	24" to 6" rip rap	6+47, 11+17	N/A	dissipator	11	dissipators	2	22	\$8.96	\$197				
Landings	6"-0"pit-run	7+18, 12+15	N/A	landing	66	landing	2	132	\$10.24	\$1,352				
Total Rock for Road Segment:				1E to 1F						921				
Processing:										Description	No.sta	Rate/sta	Cost	
Water, Process & Compact Base Rock (4"-0"):										29.21	\$63.48	\$1,854		
1A to 1B(0+00 to 6+47),1C to 1D(0+00 to 10+59), 1E to 1F(0+00 to 12+15).														
Water, Process & Compact Traction Rock (1 1/2"-0"):										25.06	\$63.48	\$1,591		
1A to 1B(0+00 to 6+47),1C to 1D(0+00 to 10+59), 1E to 1F(0+00 to 12+15).														
SUB TOTAL FOR SURFACING										24" to 6" rip	6"-0"pit-run	4"-0" crushed	1 1/2"-0" crushed	Total
										44	330	1,549	359	2,281
														2,281
														\$22,059

SPECIAL PROJECTS	
Description	Cost
SUB TOTAL FOR SPECIAL PROJECTS	
	\$0
Subtotal of Surfacing & Spec. Proj.	
	\$22,059
Subtotal of Clearing, Exc., Culv.	
	\$20,048
GRAND TOTAL	
	\$42,107

Compiled By: D. Farner

Date: 07/08/2021

SUMMARY OF CONSTRUCTION COSTS

SALE NAME: Wickiup

ROAD:

POINTS:

NEW CONSTRUCTION: 29.21 STATIONS

IMPROVEMENT: 379.50 STATIONS

0.55 MILES

7.19 MILES

CLEARING & GRUBBING				
Method	Acres/amount	x	Rate	= Cost
		x		\$0.00
SUB TOTAL FOR CLEARING & GRUBBING				\$0

EXCAVATION				
Material	Cy/amount	x	Rate	= Cost
SUB TOTAL FOR EXCAVATION				\$0

CULVERT MATERIALS AND INSTALLATION						
Location	Dia/type	Lineal ft.	Rate	Cost	Location	Dia/type
				\$0.00		
				\$0.00		
				\$0.00		
				\$0.00		
				\$0.00		
				\$0.00		

Other/miscellaneous:			
Culvert stakes & markers:			
	Quantity	Rate	Cost
Culvert Markers Needed	10	\$230.00	\$230.00
SUB TOTAL FOR CULVERT MATERIALS & INSTALLATION			\$230
Subtotal of Clearing, Exc., Culv.			\$230

SURFACING		Subgrade prep:		Description		Stations/amount		Rate/sta/amt		Cost	
Wickiup				Grade, Shape and Ditch 16'		11 to 12 (0+00 to 230+50)		x			
				Grade, Shape		11 to 12 (230+50 to 379+50), 13 to 14 (0+00 to 16+30)		x		\$6,433.26	
				Subgrade Compaction		11 to 12 (0+00 to 379+50), 13 to 14 (0+00 to 16+30)		x		\$27.91	
				Backhoe to Dispose of Debris		11 to 12 (0+00 to 379+50), 13 to 14 (0+00 to 16+30)		x		\$4,613.52	
								x		\$22.69	
								x		\$8,980.70	
								x		\$13.95	
										\$5,521.41	

ROAD SEGMENT		11 to 12		POINT TO POINT		Sta. to Sta.		TOTAL VOLUME (CY)		Rate/ Sta./ amt.		Cost	
Application	Rock Size and Type	Location	Depth of Rock (inches)	11 to 12		Number of	loads	TOTAL VOLUME (CY)		Rate/ Sta./ amt.		Cost	
				Volume (CY)	per								
Surface Leveling Rock	1 1/2"-0" crushed	72+75 to 230+50	N/A	load	11		7	77		\$7.84		\$604	
Surface Leveling Rock	1 1/2"-0" crushed	379+50	N/A	load	11		70	770		\$7.84		\$6,037	
Surface Leveling Rock	3/4"-0" crushed	0+00 to 72+75	1 1/2"	station	9.5		72.75	691		\$7.84		\$5,418	
Surface Leveling Rock	1 1/2"-0" crushed	72+75 to 230+50	1 1/2"	station	9.5		157.75	1,499		\$7.84		\$11,749	
Junctions		20+80, 34+60, 40+60, 45+90, 50+50, 51+60, 68+95	N/A		11		7	77		\$7.84		\$604	
Junctions		91+25, 114+15, 118+25, 133+15, 152+50, 170+60, 171+20, 175+70, 191+75, 204+75, 218+00, 229+50	N/A		11		12	132		\$7.84		\$1,035	
Turnouts		4+15, 10+50, 15+00, 20+45, 30+30, 43+00, 48+95, 53+45, 60+50, 65+65, 72+75	1 1/2"	turnout	11		11	121		\$7.84		\$949	
Turnouts		82+60, 87+95, 92+10, 103+65, 108+70, 112+60, 123+85, 127+25, 144+50, 154+45, 163+40, 184+90, 190+95, 200+90, 211+00, 216+10	1 1/2"	turnout	11		16	176		\$7.84		\$1,380	
Turnaround	1 1/2"-0" crushed	15+95	1 1/2"	turnaround	11		1	11		\$7.84		\$86	
Total Rock for Road Segment:								3,554				\$27,861	

ROAD SEGMENT		13 to 14		POINT TO POINT		Sta. to Sta.		TOTAL VOLUME (CY)		Rate/ Sta./ amt.		Cost	
Application	Rock Size and Type	Location	Depth of Rock (inches)	13 to 14		Number of	loads	TOTAL VOLUME (CY)		Rate/ Sta./ amt.		Cost	
				Volume (CY)	per								
Surface Leveling Rock	1 1/2"-0" crushed	0+00 to 16+30	N/A	load	11		12	132		\$7.84		\$1,035	
Turnaround	1 1/2"-0" crushed	9+60, 16+30	N/A	turnaround	11		2	22		\$7.84		\$172	
Total Rock for Road Segment:								154				\$1,207	

Processing:		Description		No. sta		Rate/sta		Cost	
		Water, Process & Compact		11 to 12 (0+00 to 230+50)		230.50		\$93.48	
								\$14,632	

SUB TOTAL FOR SURFACING		24"-12" rr	24"-6" rr	12"-6" rr	6"-4" pr	6"-0" pr	4"-0" crushed	1 1/2"-0" crushed	2"-1" drainrock	3/4"-0" crushed	Total	\$69,250
												\$69,250

SPECIAL PROJECTS		Description		Cyl/Amount		Rate		Cost	
								\$0.00	
								\$0.00	

SUB TOTAL FOR SPECIAL PROJECTS												\$0	
												\$69,250	
												\$230	
												\$69,480	

GRAND TOTAL													

Compiled By:		D. J. Famer		Date:		05/27/2021	
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SUMMARY OF ROCK DEVELOPMENT AND CRUSHING COSTS

PROJECT NO. <u>3</u>	Timber Sale Name: <u>Wickiup</u>
Quarry: <u>Simmons Rideg Quarry</u>	Swell: <u> </u>
Location: <u>NE 1/4, Sec. 28, T7N, R8W, W.M.</u>	Shrink: <u>16%</u>
County: <u>Clatsop</u>	
By: <u>D. Farner</u>	Loading Hopper: <u>Yes</u>
Date: <u>06/10/2021</u>	

ROCK SIZE	REJECT	GRADATION	STOCKPILE CU. YDS.	TRUCK MEAS CU. YDS.	TOTAL CU. YDS.
3/4"-0"	20%	CR		900	900
1-1/2"-0"	20%	CR	2,500	3,167	6,067
4"-0"	20%	CR		3,549	3,549
6"-0"		PR		330	330
24"-6"		RR		44	44
36"		RR			
TOTAL CUBIC YARDS OF ROCK:			2,500	7,990	10,890

1) MOBILIZATION & SET UP:

EQUIPMENT	QUANTITY	RATE	COST	EQUIPMENT	QUANTITY	RATE	COST
Excavator	1	\$1,581	\$1,581	3 Stage Crusher	1	\$3,250	\$3,250
Screening Plants	2	\$622	\$1,244				
D8 Cat	1	\$1,581	\$1,581				
Off Highway Dump Truck	1	\$622	\$622				
Drill & Compressor	1	\$1,581	\$1,581				
Powder	1	\$395	\$395				
Loading Hopper	1	\$622	\$622				
Loader	1	\$905	\$905				

SUB TOTAL FOR MOBILIZATION

\$11,781

EQUIPMENT SET UP	TIMES	RATE	COST
3 Stage Crusher	1	\$3,866	\$3,866
Screening Plants	2	\$330	\$660
Loading Hopper	1	\$330	\$330
Original Calibration	1	\$612	\$612

SUB TOTAL FOR SET UP COSTS

\$5,468

TOTAL MOBILIZATION & SET UP COSTS**\$17,249****2) CLEARING & GRUBBING**

DESCRIPTION	QUANTITY	UNIT	RATE	COST
Pile & Burn Slash and Stumps(1 exc)	24.0	hr	\$175	\$4,200
Move-in Fire Truck for the burning of the Clearing Debris	1.0	ea	\$214	\$214

TOTAL CLEARING & GRUBBING COSTS**\$4,414**

3) EXCAVATION

MATERIAL DESCRIPTION	QUANTITY	UNIT	RATE	COST
Overburden Removal (excavate, load haul, spread)	1,250	bcy	\$2.60	\$3,250
Off Hwy Truck for Overburden Haul	20	hr	\$143.00	\$2,860
Open benches and access roads	8	hr	\$175.00	\$1,400

TOTAL EXCAVATION COSTS

\$7,510

4) DEVELOP ROCK

ROCK SUMMARY			METHOD	%	QUANTITY	RATE	COST
Type	Cu. yd. Vol.	Weight	Ripping	20%	2,178	\$3.40	\$7,405
crushed	10,516	97%	Drill & shoot	80%	10,395	\$3.50	\$36,381
pit run	330	3%	Oversize red	10%	1,085	\$6.90	\$7,484
rip rap	44	0%	Other				
Total	10,890						
reject	2,103	19.3%					

TOTAL ROCK DEVELOPMENT COSTS

\$51,270

5) CALIBRATION & TESTING

DESCRIPTION	NO.	\$/TEST	COST
Calibrate	2	\$507.00	\$1,014
Calibrate			
Test	5	\$57.30	\$287
Test			

TOTAL CALIBRATION & TESTING COSTS

\$1,301

6) FEEDING & LOADING

DESCRIPTION	CU. YD. QUANTITY	COST CU. YD.	TOTAL COST
Dig & Feed Rock	12,619	\$0.98	\$12,329

TOTAL FEEDING & LOADING COSTS

\$12,329

7) ROCK CRUSHING

ROCK SIZE	ROCK TYPE	CU. YD. QUANTITY	CRUSHER TYPE	HOURLY PRODUCTION	RATE CU. YD.	TOTAL COST
3/4"-0"	crushed	900	3 stage w/s	110	\$3.54	\$3,183
1-1/2"-0"	crushed	6,067	3 stage w/s	120	\$3.24	\$19,667
4"-0"	crushed	3,549	2 stage w/s	140	\$2.48	\$8,796

TOTAL ROCK CRUSHING COSTS

\$31,646

8) STOCKPILING**STOCKPILE SITE PREPARATION**

Equipment	Hours	Rate	Total
Dozer		\$120.00	
Compactor		\$72.00	
Grader	6	\$90.00	\$540.00
Excavator		\$138.00	

Rock for Floor (CY)	\$/CY Haul	Total

\$540.00

SUB TOTAL

\$540

HAUL & STOCKPILE**STOCKPILE LOCATION**

	SIZE	# of TRUCKS	CU. YDS.	RATE	COST
1. Simmons Ridge Stockpiles	3/4"-0"				
2. Simmons Ridge Stockpiles	1-1/2"-0"	3	2,900	\$4.06	\$11,771
3. Simmons Ridge Stockpiles	4"-0"	3	2,000	\$3.95	\$7,907
4.					
5.					
6.					

SUB TOTAL

\$19,678

TOTAL STOCKPILING COSTS

\$20,218

9) MISCELLANEOUS COSTS

DESCRIPTION	COST
Load, Haul, and Spread the reject material at the waste area.	\$7,950
\$3.78 /CY 2,103 CY	
Final Quarry Dev., Access Road Const., Waterbarring, Drainage, Block Quarry Access	\$2,565
Seed & Mulch - Over burden waste area	\$1,000
Any other ares	

TOTAL MISCELLANEOUS COSTS

\$11,515

10) GRAND TOTAL:

\$157,451.84

\$/Cubic Yard

\$14.97

Footnotes:

RIP RAP ROCK COST

SALE NAME: Wickiup
PROJECT:
QUARRY: Simmons Ridge Quarry

MATERIAL: Rip Rap

DATE: 07/08/2021
BY: D. Farner

[illegible]

ROCK HAUL:

Truck type:	D12	No. trucks:	4
Delay min.:	6	Efficiency:	85%
Truck type:	D10	No. trucks:	4
Delay min.:	5	Efficiency:	85%

Ave haul:	\$7.16	/cy
Load:	\$1.80	/cy
Develop:		/cy

Production: cy/day = 353

RIP RAP ROCK HAUL COSTS

44 cy @ \$8.96 /cy

PIT RUN ROCK COST

SALE NAME: Wickiup
PROJECT:
QUARRY: Simmons Ridge Quarry

MATERIAL: Pit Run

DATE: 07/08/2021
BY: D. Farner

[illegible]

ROCK HAUL:

Truck type: D20 No. trucks:
 Delay min.: 8 Efficiency: 85%

Ave haul:	\$7.24	/cy
Load:	\$1.08	/cy
Spread:	\$1.92	/cy

Truck type:	<u>D12</u>	No. trucks:	<u>5</u>
Delay min.:	<u>6</u>	Efficiency:	<u>85%</u>

Truck type: D10 No. trucks:
 Delay min.: 5 Efficiency: 85%

Production: cy/day = 436

PIT RUN ROCK HAUL COSTS

330 cy @ \$10.24 /cy

CRUSHED ROCK COST

SALE NAME: Wickiup
PROJECT:
Stockpile: Simmons Ridge Quarry

MATERIAL: 3/4"-0", 1 1/2"-0", and 4"0"

DATE: 07/08/2021
BY: D. Farner

[illegible]

ROCK HAUL:

Truck type: D20 No. trucks:
 Delay min.: 8 Efficiency: 85%

Ave haul:	\$5.44	/cy
Load:	\$0.84	/cy
Spread:	\$1.56	/cy

Truck type:	<u>D12</u>	No. trucks:	<u>5</u>
Delay min.:	<u>6</u>	Efficiency:	<u>85%</u>

Truck type: D10 No. trucks:
 Delay min.: 5 Efficiency: 85%

Production: cy/day = 580

CRUSHED ROCK HAUL COSTS 5,594 cy @ \$7.84 /cy

HAUL and STOCKPILE COST

SALE NAME: Wickiup
 QUARRY: Simmons Ridge Quarry

ROCK TYPE: Crushed

Location 1. Simmons F 3/4"-0"	ONE WAY HAUL IN MILES						
	50 MPH	30 MPH	25 MPH	20 MPH	15 MPH	10 MPH	5 MPH
						0.00	0.00
Truck type: <u>D12</u>	No. trucks: <u>0</u>						
Delay min.: <u>15</u>	Efficiency: <u>75%</u>	Ave haul: <u>#DIV/0!</u> /cy					
		Load: <u>\$0.00</u> /cy					
Truck type: <u>D12</u>	No. trucks: <u>0</u>	Stockpile: <u>#N/A</u> /cy					
Delay min.: <u>12</u>	Efficiency: <u>75%</u>						
Truck type: <u></u>	No. trucks: <u>0</u>	Production: cy/day = <u>0</u>					
Delay min.: <u>10</u>	Efficiency: <u>75%</u>						
Location 1. Simmons Ridge Stockpiles Haul and Stockpile Cost							#DIV/0! /cy

Location 2. Simmons F 1-1/2"-0"	ONE WAY HAUL IN MILES						
	50 MPH	30 MPH	25 MPH	20 MPH	15 MPH	10 MPH	5 MPH
					0.20	0.20	0.10
Truck type: <u>D12</u>	No. trucks: <u>3</u>						
Delay min.: <u>15</u>	Efficiency: <u>75%</u>	Ave haul: <u>\$2.91</u> /cy					
		Load: <u>\$0.00</u> /cy					
Truck type: <u>D12</u>	No. trucks: <u>0</u>	Stockpile: <u>\$1.15</u> /cy					
Delay min.: <u>15</u>	Efficiency: <u>75%</u>						
Truck type: <u>D10</u>	No. trucks: <u>0</u>	Production: cy/day = <u>734</u>					
Delay min.: <u>10</u>	Efficiency: <u>75%</u>						
Location 2. Simmons Ridge Stockpiles Haul and Stockpile Cost							\$4.06 /cy

Location 3. Simmons Ridge Stock 4"-0"	ONE WAY HAUL IN MILES						
	50 MPH	30 MPH	25 MPH	20 MPH	15 MPH	10 MPH	5 MPH
						0.20	0.14
Truck type: <u>D20</u>	No. trucks: <u></u>						
Delay min.: <u>15</u>	Efficiency: <u>75%</u>	Ave haul: <u>\$2.80</u> /cy					
		Load: <u>\$0.00</u> /cy					
Truck type: <u>D12</u>	No. trucks: <u>3</u>	Stockpile: <u>\$1.15</u> /cy					
Delay min.: <u>15</u>	Efficiency: <u>75%</u>						
Truck type: <u>D10</u>	No. trucks: <u></u>	Production: cy/day = <u>761</u>					
Delay min.: <u>10</u>	Efficiency: <u>75%</u>						
Location 3. Simmons Ridge Stockpiles Haul and Stockpile Cost							\$3.95 /cy

Projects Road Maintenance Cost Summary

Sale: Wickiup
Date: 08-Jul-21
By: D. Farner

Type	Equipment/Rationale			Hours	Rate	Cost
Project Work	Grader 14G			6	\$113	\$678
Final Haul	Dump Truck 12CY			2	\$89	\$178
Road	FE Loader C966			2	\$94	\$188
Maintenance	Vibratory Roller			6	\$87	\$522
	Water Truck 2,500 gallon			6	\$101	\$606
Total						\$2,172

Production Rates

Grader

Vibratory Roller

Miles/day	Distance(miles)	Days
1.5	0.58	0.4
1.5	0.58	0.4

NOTE: From Simmons Ridge Rd. to Simmons Pit	0.58	Miles
		Miles
		Miles
		Miles
	TOTAL=	0.58 Miles

**Wickiup
TIMBER CRUISE REPORT
FY 2022**

1. **Sale Area Location:** Portions of Section 30 of T7N, R7W, W.M., Clatsop County, OR.
2. **Fund Distribution:** BOF 100% Tax Code: 1-02 (100%)
3. **Sale Acreage by Area:**

Unit	Harvest Type	Gross Acres	Non-Stocked	Stream Buffer Acres	Existing R/W Acres	New R/W	Reserve Tree Area	Net Acres	Survey Method
1	Modified Clearcut	128	1	9	-	1	12	105	GIS
2	R/W (In-Unit)	1	0	-	-	-	-	1	LxW
TOTALS		129	1	9	-	1	12	106	

4. Cruisers and Cruise Dates: Justin Bush, Kevin Berry, John Czarnecki, and Ryan Simpson (01/13/2022 – 01/14/2022)

5. Cruise Method and Computation:

Unit 1: Unit 1 was variable plot cruised utilizing a Relaskop with a 54.45 BAF. A total of 45 plots were sampled on a 4 by 7 chain spacing. Lines were cruised on an azimuth of 175°/355°. The planned count to grade ratio was 1:1, which resulted in 23 grade plots and 22 count plots. Extra grade plots can be accounted for with the measurements of minor species being found on count plots.

Unit 2 (R/W): In-unit Right-of-Way consists of new spur roads and landings, totaling one acre in size. There is out of sale Right-of-Way attributed to new construction on private land. This Right-of-Way is not included in the timber sale.

Data was collected on Allegro 2 data collectors and downloaded to the Atterbury SuperACE 2008 program for computing. See the attached Cruise Designs for more details on the cruise method. The cruise calculations were processed in the Astoria District office.

UNIT(s)	CRUISE	TRACT	TYPE	ACRES
1	WIKI	U1	00MC	105
2	WIKI	U2	00MC	1

6. Timber Description:

Unit 1 is a modified clearcut with an average age of 84 years. The stand consists of Western hemlock and Sitka spruce with a minor component of Douglas-fir and alder. The average take Western hemlock is 16 inches DBH and is 56 feet to a merchantable top. The average take Sitka spruce is 20 inches DBH and is 68 feet to a merchantable top. The average take of Douglas-fir is 25 inches and is 93 feet to a merchantable top. The average take red alder is 14 inches DBH and is 41 feet to a merchantable top. Average net volume to be harvested per acre is 51 MBF. All trees were cruised to a merchantable top of six inches DIB, 40% of form point, or an otherwise anticipated break point.

Unit 2 (R/W) In-unit Right-of-Way was cruised with Unit 1. The average net volume to be harvested per acre is 51 MBF. Out-of-unit Right-of-Way was not cruised as it is on private land.

7. Statistical Analysis and Stand Summary:

Statistics for Stand B.F. volumes

Unit	Estimated CV	Target SE%	Actual CV	Actual SE%
1	50.0%	8.0%	42.8%	6.4%

8. Volumes by Species and Log Grade:

Volumes by Species and Grade for All Sale Areas: (MBF) Volumes do not include "in-growth."

Conifer

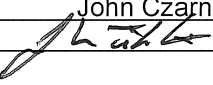
Species	DBH	Net Vol.	2 Saw	3 Saw	4 Saw	% D & B	% Sale
Western hemlock	16"	2,748	1,390	1,092	266	8.9%	51%
Sitka spruce	20"	1,469	960	464	45	8.4%	27%
Douglas-fir	25"	518	460	46	12	3.1%	10%
TOTALS	--	4,735	2,810	1,602	323	7.4%	88%

Hardwood

Species	DBH	Net Vol.	12" +	10"-11"	8"-9"	6"-7"	% D & B	% Sale
Red alder	14"	627	248	178	52	149	1.0%	12%
TOTALS	--	627	248	178	52	149	1.0%	12%

TOTAL VOLUME	5,362 MBF
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9. Approvals:

Prepared by: John Czarnecki Date: 01/20/2021
 Unit Forester Approval:  Date: 2/3/2022

- 10. Attachments:** Cruise Design and Map (2 pages)
 Volume Report (3 pages)
 Statistics Report (1 pages)
 Log Stock Table (2 pages)
 Stand Table Summary (1 pages)

**CRUISE DESIGN
ASTORIA DISTRICT**

Sale Name: Wickiup **Unit** 1

Harvest Type: Modified Clearcut

Approx. Cruise Acres: 105 **Estimated CV%** 50 Net BF/Acre **SE% Objective** 8% Net BF/Acre

Planned Sale Volume : 5,500 MBF **Estimated Sale Area Value/Acre:** \$36,750/Acre

A. Cruise Goals: (a) Grade minimum 100 conifer trees.
(b) Sample 45 cruise plots (23 grade/ 22 count); (c) Other goals (Determine "automark" thinning standards; X Determine log grades for sale value; Determine snag and leave tree species and sizes.

B. Cruise Design:

1. Plot Cruises: BAF: 54.45

Cruise Line Direction: Unit 1: 175°/355°
Cruise Line Spacing 7 (chains) 462 (Feet)
Cruise Plot Spacing 4 (chains) 264 (Feet)
Grade/Count Ratio 1:1

Take plots as marked on cruise map.

Grade minor species (true fir, spruce, cedar, etc.) on count plots if encountered.

DO NOT: record any 22' log lengths, or any 12', 24', or 32' log lengths for hardwoods.

DO NOT: record snags < 12" DBH or record snag measurements on count plots.

C. Tree Measurements:

- 1. Diameter:** Minimum DBH to cruise is 8" for conifers and 8" for hardwoods.
Record dbh to nearest 1/2" for trees < 16", to nearest 1" for trees 16-24", and to nearest 2" for trees > 24". If tree diameters are estimated (only estimate on variable plot cruises), then record to closest estimate.
- 2. Bole Length:** Record bole length to nearest foot at TCD. For trees greater than 100 feet in merchantable height, estimating to the nearest 5 feet is acceptable.
- 3. Top Cruise Diameter (TCD):** Minimum top outside bark is 7" for conifers and 7" for hardwoods or 40 % of dob at 16' form point. Generally, use 7" outside bark for trees < 20" dbh and 40% of dob @ FP for conifer trees > 20" dbh.
- 4. Form Factors:** (1) Measure or estimate a 16' form factor for every conifer tree measured/graded; OR (2) Measure a minimum of 20 form factors for each major conifer species on the cruise area, and use these to calculate average FF for the species on the cruise. Hardwood form factors are a Standard 87.

5. **Tree Segments:** Record log segments in “standard” log lengths in general use, such as 32’ and 40’ lengths, whenever possible. Do not record odd segments just to maximize grade. Cull segments can be any length. For conifers, minimum merchantable segment length is 12’; for hardwoods, it’s 8’. Maximum segment length is 40’. One foot of trim is assumed for each merch segment. Do not use “double dash” (--) feature on the data recorder except for the top segment of the tree. Hardwoods shall be recorded in 8’ and 10’ multiples.

6. **Species, Sort, and Grade Codes:**

A. Species: Record as D (Douglas-fir); H (Western hemlock); S (Sitka Spruce); C (Western red cedar); NF (Noble fir); SF (Silver fir); A (Red alder); M (Bigleaf maple); SN (Snag). For “leave trees”, add an “L” to the species code (such as DL, HL, CL, etc.)

B. Sort: Use code “1” (Domestic).

C. Grade: A = 1 Peeler; B = 2 Peeler; C = 3 Peeler; D = Special Mill; 2 = 2 Sawmill; 3 = 3 Sawmill; 4 = 4 Sawmill; R = Camp Run; 0 = Cull
Hardwoods: Alder Grades: 12” + = 1 Sawmill; 10”-12” = 2 Sawmill; 10”-8” = 3 Sawmill; and 8”-6” 4 Sawmill, or R = Camp Run; 0 = Cull.
All Maple Camp Run = R

Grade oversized 3-SAW (DIB $\geq$ 12”, knots $> 2\frac{1}{2}$ ” inside scaling cylinder affecting $> 50\%$ of log)

7. **Deductions:** Estimate visible defect or damage as a “length deduction” (most often), or as a “diameter deduction,” as applicable. Estimate hidden defect and breakage (usually some breakage is encountered in trees > 100 feet in height) on a “per tree” basis. Steep and broken topography generally results in higher breakage percentages than gentler topography, and hemlock generally breaks more than D-fir and spruce.

8. **Standard Field Procedures:** Plot Type Cruises: Mark cruise line beginning and end points with blue/yellow flagging. Write plot identification numbers and line direction on the ribbon. At each plot, tie yellow flagging above eye level near plot center and another yellow flagging around a sturdy wooden stake marking plot center. On each yellow flagging, write the plot identification number. Between plots, along the cruise line, tie blue flagging at inter-visible points, not to exceed 100’ apart. On “measure/grade” plots write the tree number and/or tree diameter on at least the first measured tree (clockwise from the line direction) in yellow paint. All trees on the plot may be marked this way, if the cruiser chooses.

9. **Cruising Equipment:** Relaskop, Rangefinder, Logger’s Tape (with dbh on back), Compass, Allegro II Data Recorder, Cruise Design, Cruise Map, Yellow Flagging, Blue Flagging, Yellow Paint, Permanent Marker.

10. **Attachments:** A. Cruise Map (showing cruise unit boundaries, roads, streams, approx. acres/unit, cruise lines and plot locations, legal description and section lines, BAF or plot size, measure/count plot ratio, north arrow, and scale.

Cruise Design by: John Czarnecki

Approved by: 

Date: 1/13/2022

TIMBER CRUISE

OF TIMBER SALE CONTRACT
NO. AT-341-2022-W00XXX-01
WICKIUP

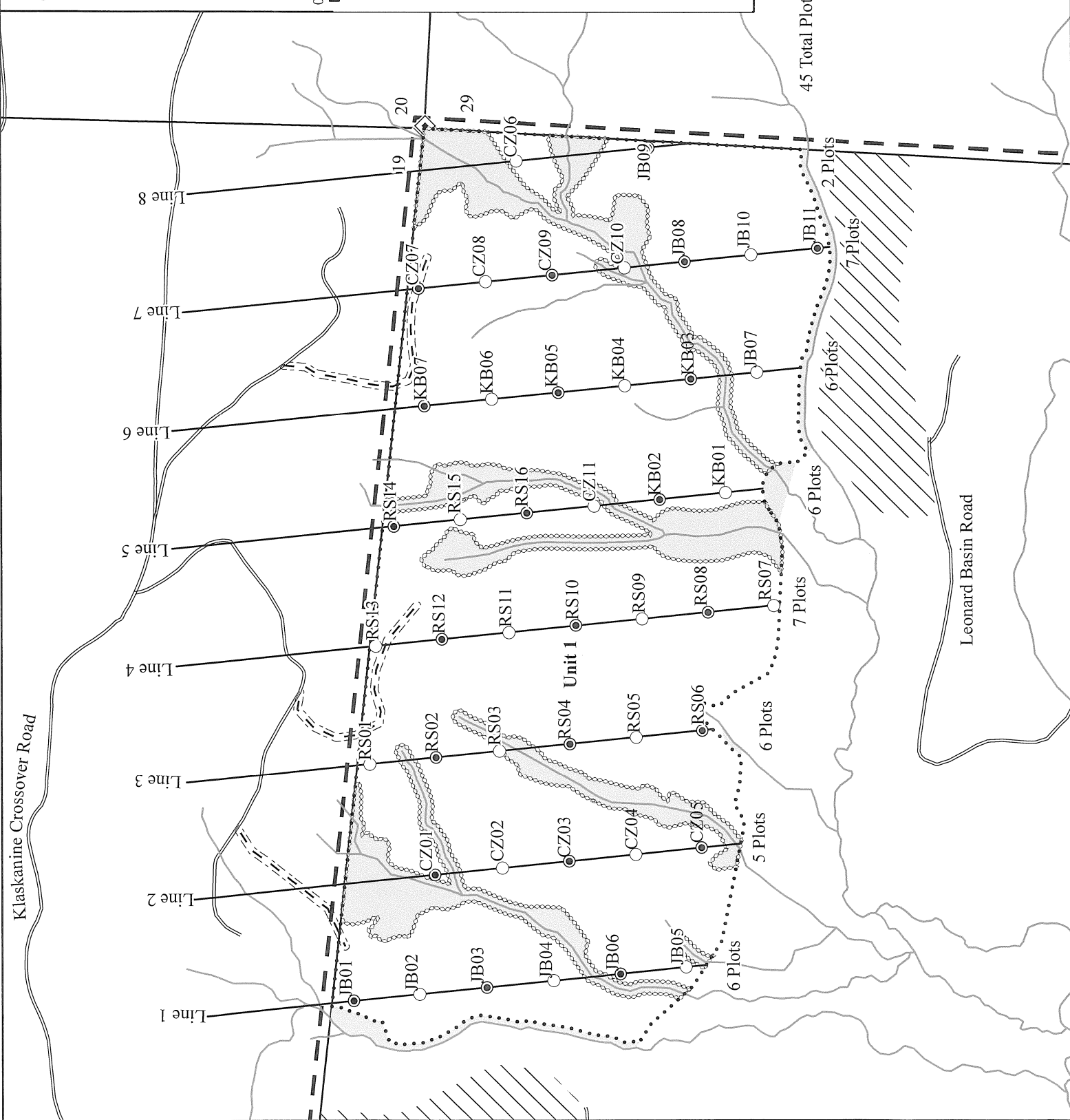
PORTIONS OF SECTION 30
OF T7N, R7W, W.M.,
CLATSOP COUNTY, OREGON

BAF = 54.45
Net Acres = 105
Azimuth = 355*/175*
Line Spacing = 7 ch.
Plot Spacing = 4 ch.
Grade Plots = 23
Count Plots = 22
Total Plots = 45



Legend

- Ownership Boundary
- Timber Sale Boundary
- Surfaced Road
- New Road Construction - Surfaced
- Right of Way
- Type F Stream
- Type N Stream
- Non-posted Buffer
- Posted Buffer
- Count
- Grade



TC		PSPCSTGR Species, Sort Grade - Board Foot Volumes (Project)																			
T07N R07W S30 Ty00MC 1.00 T07N R07W S30 Ty00MC 105.00					Project: WIKI Acres 106.00										Page 1 Date 2/1/2022 Time 3:26:32PM						
Spp	So Gr T rt ad	% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent of Net Board Foot Volume								Average Log				Logs Per /Acre		
		Def%	Gross	Net	Log Scale Dia.				Log Length				Ln Ft	Dia In	Bd Ft	CF/ Lf					
					4-5		6-11	12-16	17+	12-20	21-30	31-35					36-99				
H	DOCU																7	19		0.00	4.8
H	DO2S	50	9.6	14,508	13,117	1,390		2	66	32	2	2	7	90	38	14	259	1.80		50.6	
H	DO3S	40	8.1	11,209	10,302	1,092		86	3	11	2	9	24	65	35	9	96	0.85		107.2	
H	DO4S	10	9.0	2,755	2,508	266		100			46	48	7		22	6	26	0.44		97.7	
H Totals		51	8.9	28,472	25,926	2,748		45	35	21	6	9	14	71	30	9	100	0.97		260.4	
A	DOCU																5	15		0.00	1.2
A	DO1S	39	1.3	2,374	2,344	248			100				73	27	31	13	184	1.54		12.7	
A	DO2S	28		1,683	1,683	178		100			8	16		76	33	11	146	1.18		11.6	
A	DO3S	9		495	495	52		100				46		54	36	7	64	0.58		7.7	
A	DO4S	24	1.9	1,430	1,403	149		100			45	35		20	22	6	29	0.54		48.8	
A Totals		12	1.0	5,982	5,925	627 628		60	40		13	45		42	26	8	72	0.84		82.0	
S	DOCU																11	14		0.00	2.2
S	DO2S	65	8.0	9,842	9,053	960			33	67		1	6	93	39	17	425	2.51		21.3	
S	DO3S	31	9.2	4,824	4,380	464		48	12	40	5	14	21	60	34	10	144	1.25		30.4	
S	DO4S	4	7.0	461	428	45		100			58	42			21	7	27	0.51		15.7	
S Totals		27	8.4	15,126	13,862	1,469		18	26	56	3	6	10	80	32	11	199	1.60		69.7	
D	DOCU																6	28		0.00	.2
D	DO2S	88	3.5	4,495	4,340	460		2	45	53	1	4	26	70	36	15	335	2.18		12.9	
D	DO3S	9		435	435	46		100			6	33	39	22	31	8	79	0.78		5.5	
D	DO4S	3		109	109	12		100			87	13			20	7	27	0.55		4.0	
D Totals		10	3.1	5,039	4,884	518		13	40	47	3	7	27	64	32	12	215	1.66		22.8	
Totals			7.4	54,620	50,597	5,362 5,363		36	33	31	6	12	12	69	30	9	116	1.10		434.8	

T		TSPCSTGR		Species, Sort Grade - Board Foot Volumes (Type)												Page		1							
				Project: WIKI												Date		2/1/2022							
																Time		3:26:32PM							
T07N R07W S30 T00MC																T07N R07W S30 T00MC									
Twp		Rge		Sec		Tract		Type		Acres		Plots		Sample Trees		CuFt		BdFt							
07N		07W		30		U1		00MC		105.00		45		156		1		W							
S So Gr T rt ad Spp				% Net BdFt	Bd. Ft. per Acre Def% Gross Net			Total Net MBF	Percent Net Board Foot Volume								Average Log				Logs Per /Acre				
									Log Scale Dia.				Log Length				Ln	Dia	Bd	CF/ Lf					
									4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99	Ft	In	Ft	Lb					
H				DO	CU												7	19		0.00	4.8				
H				DO	2S		50	9.6	14,508	13,117	1,377		2	66	32		2	2	7	90	38	14	259	1.80	50.6
H				DO	3S		40	8.1	11,209	10,302	1,082		86	3	11		2	9	24	65	35	9	96	0.85	107.2
H				DO	4S		10	9.0	2,755	2,508	263		100				46	48	7		22	6	26	0.44	97.7
H Totals							51	8.9	28,472	25,926	2,722		45	35	21		6	9	14	71	30	9	100	0.97	260.4
S				DO	CU												11	14		0.00	2.2				
S				DO	2S		65	8.0	9,842	9,053	951		33	67			1	6	93		39	17	425	2.51	21.3
S				DO	3S		31	9.2	4,824	4,380	460		48	12	40		5	14	21	60	34	10	144	1.25	30.4
S				DO	4S		4	7.0	461	428	45		100				58	42			21	7	27	0.51	15.7
S Totals							27	8.4	15,126	13,862	1,456		18	26	56		3	6	10	80	32	11	199	1.60	69.7
A				DO	CU												5	15		0.00	1.2				
A				DO	1S		39	1.3	2,374	2,344	246		100					73	27		31	13	184	1.54	12.7
A				DO	2S		28		1,683	1,683	177	100				8	16	76		33	11	146	1.18	11.6	
A				DO	3S		9		495	495	52	100					46	54		36	7	64	0.58	7.7	
A				DO	4S		24	1.9	1,430	1,403	147	100				45	35	20		22	6	29	0.54	48.8	
A Totals							12	1.0	5,982	5,925	622		60	40		13	45	42		26	8	72	0.84	82.0	
D				DO	CU												6	28		0.00	.2				
D				DO	2S		88	3.5	4,495	4,340	456		2	45	53		1	4	26	70	36	15	335	2.18	12.9
D				DO	3S		9		435	435	46	100				6	33	39	22	31	8	79	0.78	5.5	
D				DO	4S		3		109	109	11	100				87	13			20	7	27	0.55	4.0	
D Totals							10	3.1	5,039	4,884	513		13	40	47		3	7	27	64	32	12	215	1.66	22.8
Type Totals								7.4	54,620	50,597	5,313		36	33	31		6	12	12	69	30	9	116	1.10	434.8

T TSPCSTGR		Species, Sort Grade - Board Foot Volumes (Type)												Page 1					
		Project: WIKI												Date	2/1/2022				
														Time	3:26:32PM				
T07N R07W S30 T00MC										T07N R07W S30 T00MC									
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt										
07N	07W	30	R/W	00MC	1.00	45	156	1	W										
S So Gr Spp T rt ad			% Net BdFt	Bd. Ft. per Acre Def% Gross Net			Total Net MBF	Percent Net Board Foot Volume								Average Log			Logs Per /Acre
								Log Scale Dia.				Log Length				Ln	Dia	Bd	
H DO CU																			
H DO 2S			50	9.6	14,508	13,117	13	2	66	32	2	2	7	90	38	14	259	1.80	50.6
H DO 3S			40	8.1	11,209	10,302	10	86	3	11	2	9	24	65	35	9	96	0.85	107.2
H DO 4S			10	9.0	2,755	2,508	3	100			46	48	7		22	6	26	0.44	97.7
H Totals			51	8.9	28,472	25,926	26	45	35	21	6	9	14	71	30	9	100	0.97	260.4
S DO CU																			
S DO 2S			65	8.0	9,842	9,053	9		33	67		1	6	93	39	17	425	2.51	21.3
S DO 3S			31	9.2	4,824	4,380	4	48	12	40	5	14	21	60	34	10	144	1.25	30.4
S DO 4S			4	7.0	461	428	0	100			58	42			21	7	27	0.51	15.7
S Totals			27	8.4	15,126	13,862	14	18	26	56	3	6	10	80	32	11	199	1.60	69.7
A DO CU																			
A DO 1S			39	1.3	2,374	2,344	2		100			73		27	31	13	184	1.54	12.7
A DO 2S			28		1,683	1,683	2	100			8	16		76	33	11	146	1.18	11.6
A DO 3S			9		495	495	0	100				46		54	36	7	64	0.58	7.7
A DO 4S			24	1.9	1,430	1,403	1	100			45	35		20	22	6	29	0.54	48.8
A Totals			12	1.0	5,982	5,925	6	60	40		13	45		42	26	8	72	0.84	82.0
D DO CU																			
D DO 2S			88	3.5	4,495	4,340	4	2	45	53	1	4	26	70	36	15	335	2.18	12.9
D DO 3S			9		435	435	0	100			6	33	39	22	31	8	79	0.78	5.5
D DO 4S			3		109	109	0	100			87	13			20	7	27	0.55	4.0
D Totals			10	3.1	5,039	4,884	5	13	40	47	3	7	27	64	32	12	215	1.66	22.8
Type Totals				7.4	54,620	50,597	51	36	33	31	6	12	12	69	30	9	116	1.10	434.8

TC PSTATS			PROJECT STATISTICS						PAGE	1		
			PROJECT		WIKI		DATE 2/1/2022					
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt		
07N 07N	07 07W	30 30	R/W U1	00MC 00MC		106.00	90	622	1	W		
			PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES					
TOTAL			90	622	6.9							
CRUISE			46	310	6.7	26,665	1.2					
DBH COUNT												
REFOREST												
COUNT			44	310	7.0							
BLANKS												
100 %												
STAND SUMMARY												
			SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
WHEMLOCK			166	147.9	15.8	56	50.8	202.1	28,472	25,926	7,678	7,678
S SPRUCE			72	33.7	20.5	68	17.1	77.4	15,126	13,862	3,546	3,546
R ALDER			40	55.4	14.0	41	15.8	59.3	5,982	5,925	1,794	1,794
DOUG FIR			26	8.0	24.7	93	5.4	26.6	5,039	4,884	1,204	1,204
SNAG			6	6.5	17.5	41	2.6	10.9				
TOTAL			310	251.6	16.6	55	92.5	376.3	54,620	50,597	14,221	14,221
CONFIDENCE LIMITS OF THE SAMPLE												
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR												
CL	68.1	COEFF	SAMPLE TREES - BF					# OF TREES REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5 10		15			
WHEMLOCK			88.8	6.9	287	308	329					
S SPRUCE			83.3	9.8	661	733	805					
R ALDER			60.7	9.6	145	161	176					
DOUG FIR			59.1	11.8	635	720	805					
SNAG												
TOTAL			104.9	6.0	392	416	441	440	110	49		
CL	68.1	COEFF	SAMPLE TREES - CF					# OF TREES REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5 10		15			
WHEMLOCK			77.5	6.0	82	88	93					
S SPRUCE			69.0	8.1	160	174	189					
R ALDER			55.1	8.7	43	48	52					
DOUG FIR			45.6	9.1	156	172	187					
SNAG												
TOTAL			86.2	4.9	103	108	113	297	74	33		
CL	68.1	COEFF	TREES/ACRE					# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5 10		15			
WHEMLOCK			151.2	15.9	124	148	171					
S SPRUCE			203.1	21.4	27	34	41					
R ALDER			251.0	26.4	41	55	70					
DOUG FIR			338.1	35.6	5	8	11					
SNAG			364.5	38.4	4	7	9					
TOTAL			114.8	12.1	221	252	282	526	131	58		
CL	68.1	COEFF	BASAL AREA/ACRE					# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5 10		15			
WHEMLOCK			142.8	15.0	172	202	232					
S SPRUCE			193.4	20.4	62	77	93					
R ALDER			252.8	26.6	44	59	75					
DOUG FIR			334.2	35.2	17	27	36					
SNAG			333.4	35.1	7	11	15					
TOTAL			111.5	11.7	332	376	420	496	124	55		

PROJECT STATISTICS

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
07N	07	30	R/W	00MC	106.00	90	622	1	W
07N	07W	30	U1	00MC					

CL	68.1	COEFF	NET BF/ACRE			# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR. %	S.E. %	LOW	AVG	HIGH	5	10	15
WHEMLOCK		144.1	15.2	21,993	25,926	29,860			
S SPRUCE		199.0	21.0	10,957	13,862	16,767			
R ALDER		258.5	27.2	4,312	5,925	7,537			
DOUG FIR		334.4	35.2	3,164	4,884	6,604			
SNAG									
TOTAL		115.3	12.1	44,454	50,597	56,740	531	133	59

TC TSTATS				STATISTICS				PAGE	1										
				PROJECT	WIKI	DATE 2/1/2022													
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt										
07N	07W	30	U1	00MC	105.00	45	311	1	W										
				TREES	ESTIMATED	PERCENT													
				PER PLOT	TOTAL	SAMPLE													
					TREES	TREES													
PLOTS		TREES																	
TOTAL	45	311	6.9																
CRUISE	23	155	6.7	26,413	.6														
DBH COUNT																			
REFOREST																			
COUNT	22	155	7.0																
BLANKS																			
100 %																			
STAND SUMMARY																			
SAMPLE		TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET									
TREES		/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC									
WHEMLOCK	83	147.9	15.8	56	50.8	202.1	28,472	25,926	7,678	7,678									
S SPRUCE	36	33.7	20.5	68	17.1	77.4	15,126	13,862	3,546	3,546									
R ALDER	20	55.4	14.0	41	15.8	59.3	5,982	5,925	1,794	1,794									
DOUG FIR	13	8.0	24.7	93	5.4	26.6	5,039	4,884	1,204	1,204									
SNAG	3	6.5	17.5	41	2.6	10.9													
TOTAL	155	251.6	16.6	55	92.5	376.3	54,620	50,597	14,221	14,221									
CONFIDENCE LIMITS OF THE SAMPLE																			
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR																			
CL: 68.1 %	COEFF	SAMPLE TREES - BF					# OF TREES REQ.		INF. POP.										
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5 10		15											
WHEMLOCK	89.0	9.8	278	308	338														
S SPRUCE	83.9	14.0	631	733	836														
R ALDER	61.5	14.1	138	161	183														
DOUG FIR	60.3	17.4	595	720	845														
SNAG																			
TOTAL	105.1	8.4	381	416	451						441	110	49						
CL: 68.1 %	COEFF	SAMPLE TREES - CF					# OF TREES REQ.		INF. POP.										
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5 10		15											
WHEMLOCK	77.7	8.5	80	88	95														
S SPRUCE	69.5	11.6	154	174	195														
R ALDER	55.8	12.8	41	48	54														
DOUG FIR	46.5	13.4	149	172	195														
SNAG																			
TOTAL	86.3	6.9	101	108	115						298	74	33						
CL: 68.1 %	COEFF	TREES/ACRE					# OF PLOTS REQ.		INF. POP.										
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5 10		15											
WHEMLOCK	82.2	12.2	130	148	166														
S SPRUCE	127.4	19.0	27	34	40														
R ALDER	165.7	24.7	42	55	69														
DOUG FIR	232.2	34.6	5	8	11														
SNAG	251.9	37.5	4	7	9														
TOTAL	42.1	6.3	236	252	267						71	18	8						
CL: 68.1 %	COEFF	BASAL AREA/ACRE					# OF PLOTS REQ.		INF. POP.										
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5 10		15											
WHEMLOCK	74.2	11.0	180	202	224														
S SPRUCE	119.4	17.8	64	77	91														
R ALDER	167.1	24.9	45	59	74														
DOUG FIR	229.2	34.1	18	27	36														
SNAG	228.6	34.1	7	11	15														
TOTAL	37.3	5.5	355	376	397						55	14	6						
CL: 68.1 %	COEFF	NET BF/ACRE					# OF PLOTS REQ.		INF. POP.										
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5 10		15											
WHEMLOCK	75.3	11.2	23,017	25,926	28,836														
S SPRUCE	124.0	18.5	11,301	13,862	16,423														

TC TSTATS				STATISTICS				PAGE	2
				PROJECT	WIKI				
								DATE	2/1/2022
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
07N	07W	30	U1	00MC	105.00	45	311	1	W
CL:	68.1 %	COEFF		NET BF/ACRE			# OF PLOTS REQ.		INF. POP.
SD:	1.0	VAR.	S.E.%	LOW	AVG	HIGH	5	10	15
R ALDER		171.5	25.5	4,411	5,925	7,438			
DOUG FIR		229.3	34.2	3,216	4,884	6,552			
SNAG									
TOTAL		42.8	6.4	47,371	50,597	53,822	73	18	8

TC TSTATS				STATISTICS				PAGE	1	
				PROJECT	WIKI			DATE	2/1/2022	
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
07N	07W	30	R/W	00MC	1.00	45	311	1	W	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
					TREES	TREES				
PLOTS		TREES		TREES		TREES				
TOTAL		45		311		6.9				
CRUISE		23		155		6.7		252		61.6
DBH COUNT										
REFOREST										
COUNT		22		155		7.0				
BLANKS										
100 %										
STAND SUMMARY										
SAMPLE		TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
TREES		/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
WHEMLOCK		83	147.9	15.8	56	50.8	202.1	28,472	25,926	7,678
S SPRUCE		36	33.7	20.5	68	17.1	77.4	15,126	13,862	3,546
R ALDER		20	55.4	14.0	41	15.8	59.3	5,982	5,925	1,794
DOUG FIR		13	8.0	24.7	93	5.4	26.6	5,039	4,884	1,204
SNAG		3	6.5	17.5	41	2.6	10.9			
TOTAL		155	251.6	16.6	55	92.5	376.3	54,620	50,597	14,221
CONFIDENCE LIMITS OF THE SAMPLE										
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR										
CL: 68.1 %	COEFF		SAMPLE TREES - BF				# OF TREES REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15	
WHEMLOCK		89.0	9.8	278	308	338				
S SPRUCE		83.9	14.0	631	733	836				
R ALDER		61.5	14.1	138	161	183				
DOUG FIR		60.3	17.4	595	720	845				
SNAG										
TOTAL		105.1	8.4	381	416	451	441	110	49	
CL: 68.1 %	COEFF		SAMPLE TREES - CF				# OF TREES REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15	
WHEMLOCK		77.7	8.5	80	88	95				
S SPRUCE		69.5	11.6	154	174	195				
R ALDER		55.8	12.8	41	48	54				
DOUG FIR		46.5	13.4	149	172	195				
SNAG										
TOTAL		86.3	6.9	101	108	115	298	74	33	
CL: 68.1 %	COEFF		TREES/ACRE				# OF PLOTS REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15	
WHEMLOCK		82.2	12.2	130	148	166				
S SPRUCE		127.4	19.0	27	34	40				
R ALDER		165.7	24.7	42	55	69				
DOUG FIR		232.2	34.6	5	8	11				
SNAG		251.9	37.5	4	7	9				
TOTAL		42.1	6.3	236	252	267	71	18	8	
CL: 68.1 %	COEFF		BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15	
WHEMLOCK		74.2	11.0	180	202	224				
S SPRUCE		119.4	17.8	64	77	91				
R ALDER		167.1	24.9	45	59	74				
DOUG FIR		229.2	34.1	18	27	36				
SNAG		228.6	34.1	7	11	15				
TOTAL		37.3	5.5	355	376	397	55	14	6	

TC TSTATS				STATISTICS			PAGE	2	
				PROJECT		WIKI	DATE	2/1/2022	
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
07N	07W	30	R/W	00MC	1.00	45	311	1	W
CL:	68.1 %	COEFF		NET BF/ACRE			# OF PLOTS REQ.		INF. POP.
SD:	1.0	VAR.	S.E.%	LOW	AVG	HIGH	5	10	15
CL:	68.1 %	COEFF		NET BF/ACRE			# OF PLOTS REQ.		INF. POP.
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
WHEMLOCK		75.3	11.2	23,017	25,926	28,836			
S SPRUCE		124.0	18.5	11,301	13,862	16,423			
R ALDER		171.5	25.5	4,411	5,925	7,438			
DOUG FIR		229.3	34.2	3,216	4,884	6,552			
SNAG									
TOTAL		<i>42.8</i>	<i>6.4</i>	<i>47,371</i>	<i>50,597</i>	<i>53,822</i>	<i>73</i>	<i>18</i>	<i>8</i>

TC PLOGSTVB			Log Stock Table - MBF																
T07N R07W S30 Ty00MC1.00 T07N R07W S30 Ty00MC105.00			Project: WIKI												Page 1				
			Acres 106.00												Date 2/1/2022				
															Time 3:26:32PM				
S T Spp	So Gr rt de	Log Len	Gross MBF	Def %	Net MBF	% Sp	Net Volume by Scaling Diameter in Inches												
							2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+	
H	DO	2S	20	26	7.0	25	.9							25					
H	DO	2S	24	28	7.0	26	1.0					26							
H	DO	2S	32	102	7.8	94	3.4					50	14	30					
H	DO	2S	38	16	7.0	15	.5					15							
H	DO	2S	40	1,366	9.9	1,231	44.8			25		408	258	407	103	31			
H	DO	3S	18	18	16.4	15	.5			3		3	9						
H	DO	3S	20	7	7.0	7	.3					7							
H	DO	3S	24	27	7.0	25	.9				25								
H	DO	3S	26	4	7.0	4	.2				4								
H	DO	3S	28	55	7.0	52	1.9			10			41						
H	DO	3S	30	20	7.0	19	.7				3		15						
H	DO	3S	32	251	9.1	228	8.3			57	78	92							
H	DO	3S	34	35	7.0	32	1.2			27		5							
H	DO	3S	36	47	7.0	43	1.6			32	11								
H	DO	3S	38	125	7.7	115	4.2			28	13	55	20						
H	DO	3S	40	600	7.9	552	20.1			109	54	323		28		38			
H	DO	4S	12	27	7.0	25	.9			15	10								
H	DO	4S	14	4	7.0	4	.1				4								
H	DO	4S	16	4	7.0	4	.1			4									
H	DO	4S	18	41	7.0	38	1.4			30	9								
H	DO	4S	20	54	7.0	50	1.8			43	7								
H	DO	4S	24	22	7.0	20	.7			20									
H	DO	4S	28	69	7.0	64	2.3			64									
H	DO	4S	30	48	9.8	43	1.6			43									
H	DO	4S	32	24	25.6	18	.6			18									
H	Totals			3,018	8.9	2,748	51.2			502	243	485	519	281	546	103	69		
A	DO	1S	26	26	7.7	24	3.8					24							
A	DO	1S	28	97		97	15.4					32	65						
A	DO	1S	30	60		60	9.5					60							
A	DO	1S	40	69	1.7	68	10.8					35	33						
A	DO	2S	18	14		14	2.2					14							
A	DO	2S	30	29		29	4.7					29							
A	DO	2S	36	32		32	5.1					32							
A	DO	2S	40	104		104	16.5					104							
A	DO	3S	30	24		24	3.8			24									
A	DO	3S	40	29		29	4.5			29									

TC PLOGSTVB				Log Stock Table - MBF															
T07N R07W S30 Ty00MC 1.00 T07N R07W S30 Ty00MC 105.00				Project: WIKI										Page 2					
				Acres 106.00										Date 2/1/2022					
														Time 3:26:32PM					
S T Spp	So rt	Gr de	Log Len	Gross MBF	Def %	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches											
								2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
A	DO	4S	12	9		9	1.4			9									
A	DO	4S	16	5		5	.7			5									
A	DO	4S	18	6		6	1.0			6									
A	DO	4S	20	47		47	7.5			47									
A	DO	4S	24	21		21	3.4			21									
A	DO	4S	30	30		30	4.8			30									
A	DO	4S	38	18	16.7	15	2.3			15									
A	DO	4S	40	16		16	2.5			16									
A	Totals			634		628	11.7			177	24	178	150	99					
S	DO	2S	28	12	10.7	10	.7							10					
S	DO	2S	32	46	10.8	41	2.8									41			
S	DO	2S	34	14	7.0	13	.9						13						
S	DO	2S	38	27	7.0	26	1.7						26						
S	DO	2S	40	944	7.9	870	59.2						91	134	358	166	80	42	
S	DO	3S	18	3	7.0	3	.2					3							
S	DO	3S	20	20	7.0	18	1.2				6	3	9						
S	DO	3S	24	33	10.4	30	2.0					9			9	12			
S	DO	3S	26	15	7.0	14	1.0					4	5	5					
S	DO	3S	30	22	7.0	20	1.4					5				15			
S	DO	3S	32	71	15.2	60	4.1			10	14	24	12						
S	DO	3S	34	41	7.0	38	2.6			19	5				15				
S	DO	3S	38	5	7.0	5	.3				5								
S	DO	3S	40	301	8.4	276	18.8			19	36	61		25	30	32	73		
S	DO	4S	16	4	7.0	4	.3			4									
S	DO	4S	18	19	7.0	18	1.2			18									
S	DO	4S	20	5	7.0	5	.3				5								
S	DO	4S	24	9	7.0	8	.6			8									
S	DO	4S	26	5	7.0	5	.3			5									
S	DO	4S	28	6	7.0	6	.4			6									
S	Totals			1,603	8.4	1,469	27.4			89	70	110	155	174	412	265	153	42	
D	DO	2S	20	3		3	.6						3						
D	DO	2S	24	8		8	1.5					8							
D	DO	2S	30	10		10	1.9						10						
D	DO	2S	32	111		111	21.5						25		28	28	30		
D	DO	2S	34	10	17.6	8	1.6						8						
D	DO	2S	38	12		12	2.3						12						

TC PLOGSTVB		Log Stock Table - MBF																	
T07N R07W S30 Ty00MC 1.00				Project: WIKI														Page 3	
T07N R07W S30 Ty00MC 105.00				Acres 106.00														Date 2/1/2022	
																		Time 3:26:32PM	
Spp	S T	So Gr rt de	Log Len	Gross MBF	Def %	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches											
								2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
D		DO 2S	40	323	4.5	308	59.6					22	130	157					
D		DO 3S	20	3		3	.5			3									
D		DO 3S	24	8		8	1.6				8								
D		DO 3S	26	4		4	.7			4									
D		DO 3S	28	4		4	.7			4									
D		DO 3S	34	18		18	3.5			5	13								
D		DO 3S	38	5		5	1.0		5										
D		DO 3S	40	5		5	.9		5										
D		DO 4S	18	3		3	.7			2	2								
D		DO 4S	20	7		7	1.3			4	2								
D		DO 4S	24	2		2	.3			2									
D		Totals		534	3.1	518	9.7			18	19	29	79	130	185	28	30		
Total		All Species		5,790	7.4	5,363	100.0			786	356	802	902	683	1143	396	252	42	

TC		PSTNDSUM		Stand Table Summary										Page Date:		1 2/1/2022	
T07N R07W S30 Ty00MC1.00 T07N R07W S30 Ty00MC105.00						Project		WIKI		Time:		3:26:33PM					
						Acres		106.00		Grown Year:							
S Spc	T	Sample		Tot		Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net		Net		Totals		
		DBH	Trees	FF 16'	Av Ht				Net Cu.Ft.	Net Bd.Ft.	Tons/ Acre	Cu.Ft. Acre	Bd.Ft. Acre	Tons	Cunits	MBF	
H		9	2	82	17	5.511	2.43	5.51	5.0	18.6		28	103		29	11	
H		10	16	86	46	35.710	19.48	35.71	10.2	29.1		366	1,038		388	110	
H		11	6	84	69	11.067	7.30	14.76	12.8	37.2		188	549		199	58	
H		12	6	85	69	9.299	7.30	12.40	17.2	48.8		214	605		227	64	
H		13	2	85	68	2.641	2.43	5.28	13.5	37.2		71	197		76	21	
H		14	12	87	84	13.664	14.61	25.05	20.7	65.9		519	1,652		550	175	
H		15	14	87	95	13.887	17.04	27.77	25.1	86.4		696	2,399		738	254	
H		16	12	86	101	10.462	14.61	22.67	28.1	92.3		636	2,092		675	222	
H		17	8	89	104	6.178	9.74	13.90	32.8	108.5		456	1,508		483	160	
H		18	10	87	105	6.888	12.17	16.53	33.8	111.6		559	1,845		593	196	
H		19	14	85	96	8.655	17.04	19.78	36.8	120.3		728	2,380		772	252	
H		20	2	81	71	1.116	2.43	2.23	25.0	88.4		56	197		59	21	
H		21	8	85	100	4.049	9.74	8.10	51.9	162.8		420	1,318		445	140	
H		22	12	85	89	5.534	14.61	11.99	45.8	145.9		549	1,750		582	185	
H		23	10	86	108	4.219	12.17	10.97	50.3	192.4		552	2,111		585	224	
H		24	8	86	111	3.100	9.74	8.52	55.1	205.4		470	1,751		498	186	
H		26	2	85	110	.660	2.43	1.98	57.0	217.0		113	430		120	46	
H		28	4	83	82	1.139	4.87	2.85	62.0	228.8		176	651		187	69	
H		29	2	83	102	.531	2.43	1.06	79.0	283.6		84	301		89	32	
H		30	10	84	101	2.480	12.17	5.95	80.2	315.4		478	1,877		506	199	
H		34	2	86	115	.386	2.43	1.16	102.0	461.9		118	535		125	57	
H		36	4	82	96	.689	4.87	1.38	145.5	462.7		200	637		212	68	
H		Totals	166	86	77	147.865	202.07	255.56	30.0	101.4		7,678	25,926		8,138	2,748	
S		10	2	85	27	3.944	2.15	3.94	9.0	27.9		35	110		38	12	
S		12	2	85	32	2.739	2.15	2.74	13.0	27.9		36	76		38	8	
S		14	4	87	84	4.024	4.30	8.05	20.2	62.8		163	505		173	54	
S		15	2	88	101	1.753	2.15	3.51	29.5	111.6		103	391		110	41	
S		16	2	86	67	1.541	2.15	3.08	23.0	69.8		71	215		75	23	
S		17	2	85	97	1.365	2.15	2.73	35.0	116.2		96	317		101	34	
S		18	2	86	86	1.217	2.15	2.43	36.0	111.6		88	272		93	29	
S		19	4	85	94	2.185	4.30	4.37	42.0	134.9		184	589		195	62	
S		20	6	86	103	2.958	6.45	6.90	43.1	146.1		298	1,009		316	107	
S		21	2	89	103	.894	2.15	1.79	56.5	209.2		101	374		107	40	
S		22	2	85	99	.815	2.15	1.63	57.5	199.9		94	326		99	35	
S		24	6	86	106	2.054	6.45	4.11	71.0	241.8		292	993		309	105	
S		25	8	88	116	2.524	8.60	6.94	65.2	266.3		452	1,849		480	196	
S		26	4	87	113	1.167	4.30	2.92	73.8	286.4		215	836		228	89	
S		27	2	86	99	.541	2.15	1.08	91.0	334.8		98	362		104	38	
S		28	4	90	137	1.006	4.30	3.02	88.2	412.3		266	1,244		282	132	
S		30	2	85	104	.438	2.15	.88	81.0	376.6		71	330		75	35	
S		32	4	86	110	.770	4.30	2.31	92.0	396.8		213	917		225	97	
S		33	2	92	135	.362	2.15	1.09	121.7	613.8		132	667		140	71	
S		34	2	85	89	.341	2.15	.68	129.5	474.3		88	324		94	34	
S		37	2	86	113	.288	2.15	.86	123.3	579.7		107	501		113	53	
S		38	2	89	116	.273	2.15	.82	135.7	632.4		111	518		118	55	
S		39	4	87	121	.519	4.30	1.56	149.2	730.1		232	1,136		246	120	
S		Totals	72	86	86	33.719	77.44	67.44	52.6	205.6		3,546	13,862		3,758	1,469	
A		8	2	86	17	8.493	2.96	8.49	4.0	10.0		34	85		36	9	
A		9	2	87	50	6.710	2.96	6.71	9.0	30.0		60	201		64	21	
A		10	2	86	29	5.435	2.96	5.44	8.0	20.0		43	109		46	12	
A		11	2	86	68	4.492	2.96	4.49	19.0	60.0		85	270		90	29	
A		13	2	86	77	3.216	2.96	6.43	15.5	45.0		100	289		106	31	

TC PSTNDSUM		Stand Table Summary										Page 2			
												Date: 2/1/2022			
T07N R07W S30 Ty00MC 1.00 T07N R07W S30 Ty00MC 105.00					Project WIKI					Time: 3:26:33PM					
					Acres 106.00					Grown Year:					
S Spc T	Tot							Average Log		Net Net		T o t a l s			
	Sample DBH	FF Trees	Av 16'	Ht	Trees/ Acre	BA/ Acre	Logs Acre	Net Cu.Ft.	Net Bd.Ft.	Tons/ Acre	Cu.Ft. Acre	Bd.Ft. Acre	Tons	Cunits	MBF
A	14	2	86	51	2.773	2.96	2.77	23.0	50.0		64	139	68	15	
A	16	6	87	70	6.370	8.89	10.62	25.0	84.0		265	892	281	95	
A	17	12	86	73	11.284	17.79	22.57	27.2	93.3		613	2,106	650	223	
A	18	2	87	81	1.678	2.96	3.36	32.0	105.0		107	352	114	37	
A	20	2	86	91	1.359	2.96	2.72	43.5	145.0		118	394	125	42	
A	21	4	86	75	2.465	5.93	4.93	40.0	150.0		197	739	209	78	
A	22	2	86	74	1.123	2.96	2.25	47.0	155.0		106	348	112	37	
A	Totals	40	86	56	55.398	59.29	80.77	22.2	73.4		1,794	5,925	1,901	628	
D	20	2	88	122	.939	2.05	2.82	35.7	140.0		100	394	106	42	
D	21	4	85	104	1.703	4.10	4.26	38.2	136.0		163	579	172	61	
D	23	6	85	110	2.129	6.14	5.68	46.1	177.5		262	1,008	278	107	
D	26	2	86	122	.555	2.05	1.67	56.7	200.0		94	333	100	35	
D	27	4	87	118	1.030	4.10	3.09	60.3	255.0		186	788	198	84	
D	28	6	86	134	1.437	6.14	4.31	71.3	307.8		307	1,326	326	141	
D	40	2	85	130	.235	2.05	.70	129.7	646.7		91	455	97	48	
D	Totals	26	86	117	8.027	26.62	22.52	53.5	216.9		1,204	4,884	1,277	518	
SN	14	2	89	36	3.396	3.63									
SN	17	2	89	45	2.303	3.63									
SN	28	2	89	50	.849	3.63									
SN	Totals	6	89	41	6.548	10.89									
Totals		310	86	74	251.557	376.31	426.28	33.4	118.7		14,221	50,597	15,075	5,363	

Logging Plan Map

OF TIMBER SALE CONTRACT

NO. AT-341-2022-W00875-01

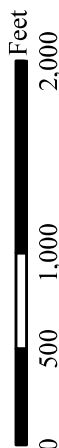
WICKIUP

PORTIONS OF SECTION 30

OF T7N, R7W, W.M.;

CLATSOP COUNTY, OREGON

Logging Breakdown	Ground	Cable	Acres
Unit 1 (MC)	0%	100%	105
Unit 2 (R/W)	100%	0%	1
Total	1%	99%	106



1 inch = 1,000 feet Contours = 40 feet

1 inch = 1,000 feet Contours = 40 feet

