



Timber Sale Appraisal
Hunt Quarry
Sale AT-341-2027-W01347-01

District: Astoria

Date: June 01, 2026

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$1,941,097.44	\$31,957.62	\$1,973,055.06
		Project Work:	(\$85,769.00)
		Advertised Value:	\$1,887,286.06



Timber Sale Appraisal
Hunt Quarry
Sale AT-341-2027-W01347-01

"STEWARDSHIP IN FORESTRY"

District: Astoria

Date: June 01, 2026

Timber Description

Location:

Stand Stocking: 80%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	23	0	97
Western Hemlock / Fir	17	0	95
Sitka Spruce	30	0	92
Alder (Red)	13	0	95
Maple	10	0	95

Volume by Grade	2S	3S & 4S 6"-11"	3S 12"+	SM & Better	8" - 9"	10" - 11"	12"+	6" - 7"	Camprun	Total
Douglas - Fir	1,448	415	117	1,196	0	0	0	0	0	3,176
Western Hemlock / Fir	883	452	83	174	0	0	0	0	0	1,592
Sitka Spruce	112	19	159	0	0	0	0	0	0	290
Red Cedar	0	0	0	0	0	0	0	0	0	0
Alder (Red)	0	0	0	0	38	13	35	60	0	146
Maple	0	0	0	0	0	0	0	0	8	8
Total	2,443	886	359	1,370	38	13	35	60	8	5,212

Comments: Pond Values Used: Local Pond Values, May, 2026.

Expected Log Markets: Clatskanie, Warrenton, Forest Grove, Tillamook, Mist, Willamina, Eugene, Wauna, Elma, WA, Aberdeen, WA, Longview, WA, and Chehalis, WA.

PRICING:

Western redcedar stumpage = pond value - (Douglas-fir) logging cost.

$\$1,018.91/\text{MBF} = \$1,300.00/\text{MBF} - 281.09/\text{MBF}$

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

Machine Washing for Invasive Weed Compliance (entering and leaving) = \$2,000

Total P&R Cost = \$2,000.00

Other Costs (No Profit & Risk added): None

SLASH PILING

(See attached appraisal. Includes move-in and pile materials) = \$16,773.92

ROAD MAINTENANCE

(See attached Road Maintenance Cost Summary Sheet)

TOTAL Road Maintenance: $\$15,361/5,212 \text{ MBF} = \$2.95/\text{MBF}$



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Logging Conditions

Combination#: 1	Douglas - Fir	100.00%
	Western Hemlock / Fir	100.00%
	Sitka Spruce	100.00%
	Alder (Red)	100.00%
	Maple	100.00%
Logging System:	Shovel	Process: Manual Falling/Delimbing
yarding distance:	Medium (800 ft)	downhill yarding: No
tree size:	Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF	
loads / day:	16	bd. ft / load: 5000
cost / mbf:	\$125.00	
machines:	Shovel Logger	



ESTABLISHED IN 1906

Timber Sale Appraisal Hunt Quarry Sale AT-341-2027-W01347-01

District: Astoria

Date: June 01, 2026

Logging Costs

Operating Seasons: 1.00

Profit Risk: 12%

Project Costs: \$85,769.00

Other Costs (P/R): \$2,000.00

Slash Disposal: \$16,773.92

Other Costs: \$0.00

Miles of Road

Road Maintenance: \$2.95

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	2.0	5.5
Western Hemlock / Fir	\$0.00	2.0	4.7
Sitka Spruce	\$0.00	2.0	5.5
Alder (Red)	\$0.00	2.0	4.3
Maple	\$0.00	2.0	3.8



OREGON DEPARTMENT OF FORESTRY

Timber Sale Appraisal Hunt Quarry Sale AT-341-2027-W01347-01

District: Astoria

Date: June 01, 2026

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas - Fir									
\$125.00	\$3.04	\$0.84	\$117.05	\$0.38	\$29.56	\$3.22	\$2.00	\$0.00	\$281.09
Western Hemlock / Fir									
\$125.00	\$3.10	\$0.84	\$139.63	\$0.38	\$32.27	\$3.22	\$2.00	\$0.00	\$306.44
Sitka Spruce									
\$125.00	\$3.19	\$0.84	\$122.73	\$0.38	\$30.26	\$3.22	\$2.00	\$0.00	\$287.62
Alder (Red)									
\$125.00	\$3.10	\$0.84	\$152.62	\$0.38	\$33.83	\$3.22	\$2.00	\$0.00	\$320.99
Maple									
\$125.00	\$3.10	\$0.84	\$172.69	\$0.38	\$36.24	\$3.22	\$2.00	\$0.00	\$343.47

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$754.87	\$473.78	\$0.00
Western Hemlock / Fir	\$0.00	\$559.07	\$252.63	\$0.00
Sitka Spruce	\$0.00	\$405.50	\$117.88	\$0.00
Alder (Red)	\$0.00	\$539.52	\$218.53	\$0.00
Maple	\$0.00	\$350.00	\$6.53	\$0.00



"FORESTRY IS AN ART"

Timber Sale Appraisal
Hunt Quarry
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District: Astoria

Date: June 01, 2026

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
Maple	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	3,176	\$473.78	\$1,504,725.28
Western Hemlock / Fir	1,592	\$252.63	\$402,186.96
Sitka Spruce	290	\$117.88	\$34,185.20
Alder (Red)	146	\$218.53	\$31,905.38
Maple	8	\$6.53	\$52.24

Gross Timber Sale Value

Recovery: \$1,973,055.06

Prepared By: Michele Huffman

Phone: 503-325-5451

Road Maintenance Cost Summary (Interim and Post Harvest)

Sale: Hunt Quarry
Date: May 6th, 2026
By: Michele Huffman

MBF: 5,212
\$/MBF: \$2.95

Type	Equipment/Rationale	Move-in Rate	Times	Hours	Rate	Cost
First Interim Maintenance	Grader 14G	\$972	1	4	\$126	\$1,476
Final Road Maintenance	Grader 14G	\$972	1	20	\$126	\$3,492
	Dump Truck 12CY	\$205	2	12	\$99	\$1,598
	Front End Loader C966	\$972	1	8	\$105	\$1,812
	Vibratory Roller	\$972	1	20	\$97	\$2,912
	Water Truck 2,500 gallon	\$238	1	8	\$113	\$1,142
	C315 Excavator	\$1,005	1	12	\$127	\$2,529
	Labor			8	\$50	\$400
Total						\$15,361

Interim Operations Road Maintenance

Production Rates	Miles/day	Distance (miles)	Days	Hours
Grader	3.0	1.5	0.5	4

Final Road Maintenance

Production Rates	Miles/day	Distance (miles)	Days	Hours
Grader	1.5	3.7	2.5	20
Vibratory Roller	1.5	3.7	2.5	20

Process and Compact

Nicolai Mainline: 2.1 Miles
Unnamed Spurs: 1.6 Miles
Waterbar and Block Road Segments 1A-1B, 1C-1D, 1E-1F, 1G-1H, and 1I-1J
Process and Compact Total: 3.7 Miles

Site Prep Appraisal

Sale Name: Hunt Quarry
Date: 05/06/2026

Vegetation Type/Zone	Vegetation Type/Zone Code	Production Rate (hr/ac)	Estimated Piles/Acre	Landing Production Rate (hrs/30 acres)
Doug-fir	A	0.6	0.5	4
Hemlock/Fir	B	1.0	4.5	6
Hemlock/Spruce	C	1.8	5.0	8
Hemlock	D	1.8	5.0	8
Conifer/Hardwood	E	0.8	2.0	6
Whole Tree Yarding	F	0.6	0.3	10

Sale Area	Harvest Type	Veg Type/Zone	Ground Based Yarding Acres	Estimated Piling Hours/Area	Cost/Hour	Total Cost/Area	
1	CC	F	113	68	\$145.00	\$9,831.00	
					In-unit Piling	Sub Total =	\$9,831.00
Sale Area	Number of Landings to be Piled	# acres per piling area	Total Cost/Area	Number of In-Unit Piles	Material Cost/Pile	Total Cost/Area	
1	10	113	\$5,461.67	38.25	\$5.00	\$191.25	
					Materials	Sub Total =	\$191.25
					Landing Piling	Sub Total =	\$5,461.67
Move-In Allowance	Number of Move-In's	Total Move-In Allowance					
\$1,290.00	1	\$1,290.00					
					Move-In	Sub Total =	\$1,290.00
Slash Endhaul	Dump Truck hrs	Cost/Hour	Total	Loader hrs	Cost/Hour	Total	
	0	\$89.00	\$0.00	0	\$145.00	\$0.00	
						Sub Total =	\$0.00
						Grand Total =	\$16,773.92

SUMMARY OF ALL PROJECT COSTS

SALE NAME: Hunt Quarry

Project No. 1: ROAD CONSTRUCTION:

<u>Road segment</u>	<u>Length (Sta)</u>	<u>Length (Mile)</u>	<u>Cost</u>
Surfaced			
1A to 1B, 1C to 1D, 1E to 1F, 1G to 1H	8.15	0.15	\$5,089.43
1I to 1J			
Road Maint.			
Move-In			\$961.98
TOTALS	8.15	0.15	\$6,052

Project No. 2: ROAD IMPROVEMENT:

<u>Road segment</u>	<u>Length (Sta)</u>	<u>Length (Mile)</u>	<u>Cost</u>
I1 to I2, I3 to I4	195.40	3.70	\$39,822.17
I5 to I6, I7 to I8			
I9 to I10			
Road Maint.			
Move-In			\$7,527.02
TOTALS		3.70	\$47,349

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

<u>Description</u>	<u>Length (Sta)</u>	<u>Cost</u>
Proj. 3. Road Vacating and Fill Removal	9.9	\$25,088.18
Proj. 4. Unauthorized Trail Vacating		\$7,280.00
TOTAL		\$32,368

GRAND TOTAL **\$85,769**

Compiled By: Brittany Lampa

Date: 05/04/2026

Move In and Maintenance Calculator for Construction and Improvement

SALE NAME: Hunt Quarry

Project No. 1: ROAD CONSTRUCTION:

<u>Road segment</u>	<u>Length/Sta</u>	<u>Length/Mile</u>	<u>Cost</u>
Surfaced			
1A to 1B, 1C to 1D,	8.15	0.15	\$5,089.43
1E to 1F, 1G to 1H			
1I to 1J			
TOTALS	8.15	0.15	\$5,089

Project No. 2: ROAD IMPROVEMENT:

<u>Road segment</u>	<u>Length/Sta</u>	<u>Length/Mile</u>	<u>Cost</u>
I1 to I2, I3 to I4	195.40	3.70	\$39,822
I5 to I6, I7 to I8			
I9 to I10			
TOTALS		3.70	\$39,822

MOVE IN (Construction & Improvement Only)

<u>Equipment</u>	<u>Length/Mile</u>	<u>Cost</u>
Grader 14G		\$972.00
Vibratory Roller		\$972.00
Front End Loader		\$972.00
Excavator C315		\$1,005.00
Excavator C330		\$1,755.00
Water Truck 2500 gal.		\$238.00
Dozer D8		\$1,755.00
Dump Truck (4)		\$820.00
TOTAL		\$8,489.00

ROAD MAINTENANCE (Construction & Improvement Only)

	<u>Length/Mile</u>	<u>Cost</u>
No Project Road Maintenance		\$0.00
TOTAL		\$0.00

SUMMARY OF CONSTRUCTION COSTS

SALE NAME: Hunt Quarry

NEW CONSTRUCTION: 8.15 STATIONS

0.15 MILES

ROAD: 1A to 1B (1.0), 1C to 1D (2.0), 1E to 1F (1.5)

IMPROVEMENT: STATIONS

0.00 MILES

1G to 1H (1.5), 1I to 1J (2.15)

POINTS:

CLEARING & GRUBBING

Method	Acres/amount	x	Rate	=	Cost
Surfaced					
1A to 1B (1.0), Scatter outside of right of way	0.79	x	\$ 1,669	=	\$1,318.51
1C to 1D (2.0),					
1E to 1F (1.5)					
1G to 1H (1.5)					
1I to 1J (2.15)					
SUB TOTAL FOR CLEARING & GRUBBING					\$1,319

EXCAVATION

Material	Cy/amount	x	Rate	=	Cost
1A to 1B					
0+00 to 1+00 Balanced construction (\$/sta)	1	x	\$154.00	=	\$154.00
1C to 1D					
0+00 to 2+00 Balanced construction (\$/sta)	2	x	\$154.00	=	\$308.00
1E to 1F					
0+00 to 1+50 Balanced construction (\$/sta)	1.5	x	\$154.00	=	\$231.00
1G to 1H					
0+00 to 1+50 Balanced construction (\$/sta)	1.5	x	\$154.00	=	\$231.00
1I to 1J					
0+00 to 2+15 Balanced construction (\$/sta)	2.15	x	\$154.00	=	\$331.10
SUB TOTAL FOR EXCAVATION					\$1,255

CULVERT MATERIALS AND INSTALLATION

Location	Dia/type	Lineal ft.	Rate	Cost
Other/miscellaneous:				
Culvert stakes & markers:				
SUB TOTAL FOR CULVERT MATERIALS & INSTALLATION				
Subtotal of Clearing, Exc., Culv.				\$0
				\$2,574

SURFACING									
Subgrade prep:				Description		Stations/ amount	x	Rate/ sta/amt	Cost
				Grade, Shape and Ditch 16':					
				1A to 1B (1.0), 1C to 1D (2.0),		8.15	x	\$30.98	\$252
				1E to 1F (1.5), 1G to 1H (1.5),					
				1I to 1J (2.15)					
				Subgrade Compaction:		8.15	x	\$25.19	\$205
				1A to 1B (1.0), 1C to 1D (2.0),					
				1E to 1F (1.5), 1G to 1H (1.5),					
				1I to 1J (2.15)					

ROAD SEGMENT 1A to 1B									
Application	Rock Size and Type	Location	Depth of Rock (inches)	POINT TO POINT		Sta. to Sta.	TOTAL VOLUME (CY)	Rate/ Sta./ amt.	Cost
				Volume (CY) per station	Number of				
Base Rock	6'-0" jaw-run	0+00 to 1+00	10	63	1	stations	63	\$2.89	\$182
Total Rock for Road Segment:				1A to 1B			63		

ROAD SEGMENT 1C to 1D									
Application	Rock Size and Type	Location	Depth of Rock (inches)	POINT TO POINT		Sta. to Sta.	TOTAL VOLUME (CY)	Rate/ Sta./ amt.	Cost
				Volume (CY) per station	Number of				
Base Rock	6'-0" jaw-run	0+00 to 2+00	10	63	2	stations	126	\$2.89	\$364
Total Rock for Road Segment:				1C to 1D			126		

ROAD SEGMENT 1E to 1F									
Application	Rock Size and Type	Location	Depth of Rock (inches)	POINT TO POINT		Sta. to Sta.	TOTAL VOLUME (CY)	Rate/ Sta./ amt.	Cost
				Volume (CY) per station	Number of				
Base Rock	6'-0" jaw-run	0+00 to 1+50	10	63	1.5	stations	95	\$2.89	\$273
Total Rock for Road Segment:				1E to 1F			95		

ROAD SEGMENT 1G to 1H									
Application	Rock Size and Type	Location	Depth of Rock (inches)	POINT TO POINT		Sta. to Sta.	TOTAL VOLUME (CY)	Rate/ Sta./ amt.	Cost
				Volume (CY) per station	Number of				
Base Rock	6'-0" jaw-run	0+00 to 1+50	10	63	1.5	stations	95	\$2.89	\$273
Total Rock for Road Segment:				1G to 1H			95		

ROAD SEGMENT 1I to 1J									
Application	Rock Size and Type	Location	Depth of Rock (inches)	POINT TO POINT		Sta. to Sta.	TOTAL VOLUME (CY)	Rate/ Sta./ amt.	Cost
				Volume (CY) per station	Number of				
Base Rock	6'-0" jaw-run	0+00 to 2+15	10	63	2.15	stations	135	\$2.89	\$391
Total Rock for Road Segment:				1I to 1J			135		

0.00 MILES
3.70 MILES

SALE NAME Hunt Quarry

Hunt Quarry
I1 to I2 (114.10), I3 to I4 (35.05), I5 to I6 (10.70), I7 to I8 (30.50), I9 to I10 (5.05)

CLEARING & GRUBBING	Method
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OS

EXCAVATION	Material	
I1 to I2		
103+15	*See fill replacement cost sheet	
I3 to I4		
4+15, 5+20	Install rock ditch filters	(C315/hr)
4+70	*See fill replacement cost sheet	
16+70	Clean culvert inlet and outlet	(C315/hr)
I5 to I6		
16+70	Clean culvert inlet and outlet	(C315/hr)
	Open culvert outlet with hydraulic	(\$/hr)
8+40	Remove alder, expand turnaround	(C315/hr)

\$9.070

CULVERT MATERIALS AND INSTALLATION			
Location	Dia/type	Lineal ft.	Rate
11 to 12			
103+15	30" ACSP	70	\$59.35

Seed

Install culvert

Seed
Mulch
Labor
Install culvert

\$9,584

\$18,654

SURFACING		Subgrade prep:		Description		Stations/ amount		x		Rate/ sta/amt		Cost	
				Grade, Shape and Ditch 16': 11 to 12 (114.10), 13 to 14 (35.05), 15 to 16 (10.70), 17 to 18 (30.50)				x		\$30.98		\$5,897.04	
				Grade and Shape 16'		5.05		x		\$12.72		\$64.24	
				Subgrade Compaction:		45.75		x		\$25.19		\$1,152.44	
ROAD SEGMENT		I1 to I2		POINT TO POINT		Sta. to Sta.		TOTAL VOLUME (CY)		Rate/ Sta./ amt.		Cost	
Application	Rock Size and Type	Location	Depth of Rock (inches)	I1 to I2		0+00 to 114+10	Number of	TOTAL VOLUME (CY)		Rate/ Sta./ amt.		Cost	
				Volume (CY) per	per								
Surface Leveling Rock	3/4"-0" crushed	28+40, 42+10, 44+60	N/A	load	11	loads	3	33		\$2.89		\$95	
Surfacing	3/4"-0" crushed	103+15	4	station	25	stations	1	25		\$2.89		\$72	
Surfacing	4"-0" crushed	103+15	4	station	25	stations	1	25		\$2.89		\$72	
Culvert Bedding and Backfill	3/4"-0" crushed	103+15	N/A	culvert	55	culverts	1	55		\$2.89		\$159	
Fill Armor	24"-6" riprap	103+15	N/A	load	11	loads	6	66		\$2.89		\$191	
Culvert Energy Dissipator	24"-6" riprap	103+15	N/A	load	11	loads	1	11		\$2.89		\$32	
Total Rock for Road Segment:		I1 to I2						215				\$621	
ROAD SEGMENT		I3 to I4		POINT TO POINT		Sta. to Sta.		TOTAL VOLUME (CY)		Rate/ Sta./ amt.		Cost	
Application	Rock Size and Type	Location	Depth of Rock (inches)	I3 to I4		0+00 to 35+05	Number of	TOTAL VOLUME (CY)		Rate/ Sta./ amt.		Cost	
				Volume (CY) per	per								
Surface Leveling Rock	1 1/2"-0" crushed	0+80	N/A	load	11	loads	1	11		\$2.89		\$32	
Surfacing	1 1/2"-0" crushed	0+00 to 35+05	3	station	19	stations	35.05	666		\$2.89		\$1,924	
Turnouts	1 1/2"-0" crushed	14+40, 29+00, 7+80, 11+70, 18+90, 20+87, 22+20,	N/A	turnout	11	turnouts	2	22		\$2.89		\$64	
Junctions	1 1/2"-0" crushed		N/A	junction	11	junctions	5	55		\$2.89		\$159	
Rock Ditch Filters	6"-4" pit-run	4+15, 5+20	N/A	filter series	11	filter series	2	22		\$2.89		\$64	
Culvert Bedding and Backfill	3/4"-0" crushed	30+00	N/A	culvert	33	culverts	1	33		\$2.89		\$95	
Surfacing	1 1/2"-0" crushed	4+70	3	station	19	stations	1	19		\$2.89		\$55	
Surfacing	4"-0" crushed	4+70	4	station	25	stations	1	25		\$2.89		\$72	
Culvert Bedding and Backfill	3/4"-0" crushed	4+70	N/A	culvert	44	culverts	1	44		\$2.89		\$127	
Fill Armor	24"-6" riprap	4+70	N/A	load	11	loads	5	55		\$2.89		\$159	
Culvert Energy Dissipator	24"-6" riprap	4+70	N/A	load	11	loads	1	11		\$2.89		\$32	
Total Rock for Road Segment:		I3 to I4						963				\$2,783	
ROAD SEGMENT		I5 to I6		POINT TO POINT		Sta. to Sta.		TOTAL VOLUME (CY)		Rate/ Sta./ amt.		Cost	
Application	Rock Size and Type	Location	Depth of Rock (inches)	I5 to I6		0+00 to 10+70	Number of	TOTAL VOLUME (CY)		Rate/ Sta./ amt.		Cost	
				Volume (CY) per	per								
Surfacing	1 1/2"-0" crushed	0+00 to 10+70	2	station	13	stations	10.7	139		\$2.89		\$402	
Turnouts	1 1/2"-0" crushed	4+70	N/A	turnout	11	turnouts	1	11		\$2.89		\$32	
Turnaround	1 1/2"-0" crushed	8+40	N/A	turnaround	11	turnarounds	1	11		\$2.89		\$32	
Landings	6"-0" jaw-run	10+70	N/A	landing	33	landings	1	33		\$2.89		\$95	
Total Rock for Road Segment:		I5 to I6						194				\$561	
ROAD SEGMENT		I7 to I8		POINT TO POINT		Sta. to Sta.		TOTAL VOLUME (CY)		Rate/ Sta./ amt.		Cost	
Application	Rock Size and Type	Location	Depth of Rock (inches)	I7 to I8		0+00 to 30+50	Number of	TOTAL VOLUME (CY)		Rate/ Sta./ amt.		Cost	
				Volume (CY) per	per								
Surface Leveling Rock	3/4"-0" crushed	18+50, 24+40, 8+45, 9+80,	N/A	load	11	loads	4	44		\$2.89		\$127	
Total Rock for Road Segment:		I7 to I8						44				\$127	

Processing:	Description		No. sta	Rate/sta	Cost			
	Water, Process & Compact: 11 to 12 (114.10), 13 to 14 (35.05),		97.70	\$70.47	\$6,885			
	15 to 16 (10.70), 17 to 18 (30.50),		97.70	\$30.29	\$2,959			
	19 to 110 (5.05)							
SUB TOTAL FOR SURFACING			3/4"-0" crushed	Total				
	24"-6" rr	6"-4" pr	6"-0"jr	4"-0" crushed	1 1/2"-0" crushed	234	1,416	
	143	22	33	50	934			\$21,050
SPECIAL PROJECTS								
		Description		Cyl/Amount	Rate	Cost		
				riprap development		22	\$5.36	\$117.92
SUB TOTAL FOR SPECIAL PROJECTS								
								\$118
								\$21,168
								\$18,654
								\$39,822
GRAND TOTAL								
								\$21,168
								\$18,654
								\$39,822

Compiled By: Brittany Lampa Date: 04/22/2026

Sale:	Hunt Quarry
Date:	04-May-26
By:	Brittany Lampa

Type	Equipment/Rationale			Hours	Rate	Cost	
Project Work						\$0	
Final Haul							
Road							
Maintenance							
Total							\$0

Production Rates	Miles/day	Distance(miles)	Days
Grader	1.5	0.00	0.0
Vibratory Roller	1.5	0.00	0.0

NOTE: All rock haul routes are improvement segments.	Miles
No project maintenance.	Miles
	Miles
	Miles
TOTAL= 0.00	Miles

Hunt Quarry											
Vacating Costs (Total)											
Work Description	Stations	Pump (hrs)	C330 (hrs)	C330 (hrs)	D24 trk (hrs)	D10/12 trk (hrs)	D-8 (hrs)	Labor (hrs)	Straw (bales)	Seed (lbs)	Rock (cy)
V1 to V2	5										
Excavate fill.			24	24							
Push waste material.							24				
Seeding and mulching								8	20	20	
V3 to V4	4.5										
Block road.				2							
Excavate flood plain and remove culvert.		8	16			16					
Push waste material.											
Seeding and mulching.								16	20	20	
Riprap to block access.											22

Total Cost		
Total Stations	9.5	
Total Miles	0.2	

\$25,088

*V1 to V2 - Mobilization for one C330 and D8 included in road cosntruction and improvement mobilization.

Hunt Quarry Unauthorized Trail Vacating and Blocking						
Work Description			C315	D10/12 trk		
Construct water bars and block trails.			40.00			
Mobilization of excavator and blocking materials.				20.00		
Total Quantity (Hours)			40.00	20		
Rates			\$127.00	\$110.00		
Total Dollars			\$5,080	\$2,200		

Total Cost

\$7,280

Fill Reconstruction Cost Estimate

Segment: I3 to I4

Station: 4+70

Fill: 1

Height: 7

Materials	Quantity		\$	Total
30"x50', ASCP	50		\$59.35	\$2,967.50
24"-6" Riprap Dissipator	11	cy	\$2.89	\$31.79
24"-6" Riprap Fill Armor	55	cy	\$2.89	\$158.95
3/4"-0" Crushed Rock for Bedding/Backfill	44	cy	\$2.89	\$127.16
1 1/2"-0" Crushed Rock for Road	19	cy	\$2.89	\$54.91
4"-0" Crushed Rock for Road	25	cy	\$2.89	\$72.25
Erosion Control: Seed	0.1	ac	\$784.00	\$78.40
Erosion Control: Mulch	8	bale	\$13.39	\$107.12

\$3,598.08

Excavation	Rate		Amount	Total
End-Haul Excavation and Back Fill	\$110.00	hr	6	\$660.00
Excavate and Reconstruct Fill	\$195.00	hr	6	\$1,170.00
Fill Compaction	\$97.00	hr	4	\$388.00

Miscellaneous				
Site Prep and Compaction @ Fill, Waste Area & Borrow Site w/330	\$195.00	hr	2	\$390.00
Fill Armor Placement w/330	\$195.00	hr	2	\$390.00
Dissipator Placement w/330	\$195.00	hr	1	\$195.00
Laborer	\$50.00	hr	8	\$400.00

\$3,593.00

Project Total	\$7,191
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Fill Reconstruction Cost Estimate

Segment: 11 to 12

Station: 103+15

Fill: 2

Height: 10

Materials	Quantity		\$	Total
24"x70', ASCP	70		\$59.35	\$4,154.50
24"-6" Riprap Dissipator	11	cy	\$2.89	\$31.79
24"-6" Riprap Fill Armor	55	cy	\$2.89	\$158.95
3/4"-0" Crushed Rock for Bedding/Backfill	55	cy	\$2.89	\$158.95
3/4"-0" Crushed Rock for Road	25	cy	\$2.89	\$72.25
4"-0" Crushed Rock for Road	25	cy	\$2.89	\$72.25
Erosion Control: Seed	0.1	ac	\$784.00	\$78.40
Erosion Control: Mulch	8	bale	\$13.39	\$107.12

\$4,834.21

Excavation	Rate		Amount	Total
End-Haul Excavation and Back Fill	\$110.00	hr	10	\$1,100.00
Excavate and Reconstruct Fill	\$195.00	hr	10	\$1,950.00
Remove stump and excavate outlet	\$195.00	hr	0.5	\$97.50
Fill Compaction	\$97.00	hr	5	\$485.00

Miscellaneous				
Site Prep and Compaction @ Fill, Waste Area & Borrow Site w/330	\$195.00	hr	2	\$390.00
Fill Armor Placement w/330	\$195.00	hr	2	\$390.00
Dissipator Placement w/330	\$195.00	hr	1	\$195.00
Laborer	\$50.00	hr	8	\$400.00

\$5,007.50

Project Total	\$9,842
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CRUSHED ROCK COST

SALE NAME:	Hunt Quarry
PROJECT:	All Projects
Stockpile:	Hunt Creek

MATERIAL: All Rock

DATE: 04/13/2026
BY: BL

[illegible]

ROCK HAUL:

Truck type: D20 No. trucks:
 Delay min.: 8 Efficiency: 90%

Ave haul:	\$2.03	/cy
Load:	\$0.33	/cy
Spread:	\$0.53	/cy

Truck type:	<u>D12</u>	No. trucks:	<u>4</u>
Delay min.:	<u>6</u>	Efficiency:	<u>90%</u>

Truck type: D10 No. trucks:
 Delay min.: 5 Efficiency: 90%

Production: cy/day = 1,734

CRUSHED ROCK HAUL COSTS 1,952 cy @ \$2.89 /cy

Hunt Quarry TIMBER CRUISE REPORT FY 2027

1. **Sale Area Location:** Portions of Sections 28 & 29 of T8N, R6W, W.M., Clatsop County, OR.
2. **Fund Distribution:** BOF 100% Tax Code: 1-03 (100%)
3. **Sale Acreage by Area:**

Unit	Harvest Type	Gross Acres	Non-Stocked Area	Stream Buffer Acres	Reserve Tree Area	Existing R/W Acres	New R/W	Net Acres	Survey Method
1	Clearcut	136	7	9	1	6	-	113	GIS
2	R/W	<1	-	-	-	-	<1	<1	LxW
TOTAL		136	7	9	1	6	<1	113	

4. **Cruisers and Cruise Dates:** Avery Petersen, Ryan Simpson, John Czarnecki, and Michele Huffman (04/15/2026-04/24/2026)

5. Cruise Method and Computation:

Unit 1: Unit 1 was stratified into three cruises based on timber type.

Cruise A: Cruise A was variable plot cruised with a 54.45 BAF. A total of 31 plots were sampled on a 8 by 2.5 chain spacing with a count to grade ratio of 1:1, resulting in 15 grade plots and 16 count plots.

Cruise B: Cruise B was variable plot cruised with a 40 BAF. A total of 25 plots were sampled on a 6 by 2 chain spacing with a count to grade ratio of 1:1, resulting in 13 grade plots and 12 count plots. Total plots differ from the cruise design due to one count plot being dropped which landed on an existing road.

Cruise C: Cruise C was variable plot cruised with a 40 BAF. A total of 31 plots were sampled on a 5 by 1.5 chain spacing with a count to grade ratio of 2:1, resulting in 12 grade plots and 19 count plots.

Unit 2 (R/W):

Unit 2 (R/W) consists of less than an acre of of timber similar to Cruise A and Cruise C.

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	CRUISE	TRACT	TYPE	ACRES
Unit 1	HQUARRY	CruiseA	00CC	59
Unit 1	HQUARRY	CruiseB	00CC	27
Unit 1	HQUARRY	CruiseC	00CC	27

6. Timber Description:

Unit 1 is a clearcut with an average age of 73 years. This unit has portions ranging from 39 to 95 years old. CruiseA was previously thinned twice. CruiseB was previously thinned once. CruiseC has not been thinned. The unit consists of Douglas-fir and western hemlock with minor components of Sitka spruce, red alder, and bigleaf maple. The average Douglas-fir is approximately 23 inches DBH and 82 feet to a merchantable top. The average western hemlock is approximately 17 inches DBH and 50 feet to a merchantable top. The average Sitka spruce is approximately 30 inches DBH and 70 feet to a merchantable top. The average red alder is approximately 13 inches DBH and 47 feet to a merchantable top. The average bigleaf maple is approximately 10 inches DBH and 31 feet to a merchantable top. Average net volume to be harvested per acre is 46 MBF. All trees were cruised to a merchantable top of six inches DIB, 40% of form point, or an otherwise anticipated break point. Averages for individual stand types can be found in the individual cruise Statistics.

7. Statistical Analysis and Stand Summary:

Statistics for Stand B.F. volumes

Type	Estimated CV	Target SE%	Actual CV	Actual SE%
CRUISEA	50%	9%	29.8%	5.3%
CRUISEB	50%	10%	33.3%	6.8%
CRUISEC	50%	10%	39.5%	7.1%

8. Volumes by Species and Log Grade:

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

Conifer

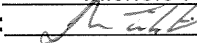
Species	DBH	Net Vol.	No. 3-Peeler	Special Mill	2 Saw	3 Saw	4 Saw	% D & B	% Sale
Douglas-fir	23"	3,176	386	810	1,448	489	43	1%	61%
Western hemlock	17"	1,592	74	100	883	428	107	1%	30%
Sitka spruce	30"	290	-	-	112	177	1	5.5%	6%
TOTALS	--	5,058	460	910	2,443	1,094	151	--	--

Hardwood

Species	DBH	Net Vol.	12"+	10"-11"	8"-9"	6"-7"	% D & B	% Sale
Red alder	13"	146	35	13	38	60	1.6%	3%
Bigleaf maple	10"	8	-	-	-	8	-	<1%
TOTALS	--	154	35	13	38	68	--	--

TOTAL VOLUME	5,212 MBF
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9. Approvals:

Prepared by: Michele Huffman Date: 05/04/2026
Unit Forester Approval:  Date: 5/29/2026

- 10. Attachments:** Cruise Design and Maps (9 pages)
Volume Reports (1 pages)
Statistics Report (7 pages)
Log Stock Table (3 pages)
Stand Table Summary (2 pages)

**CRUISE DESIGN
ASTORIA DISTRICT**

Sale Name: Hunt Quarry

Units U1/Cruise A

Harvest Type: Clearcut

Approx. Cruise Acres: 59 **Estimated CV%** 50 Net BF/Acre **SE% Objective** 9% Net BF/Acre

Planned Sale Volume: 2,183 MBF **Estimated Sale Area Value/Acre:** \$15,725/Acre

A. Cruise Goals: (a) Grade minimum 60 conifer trees.
(b) Sample 31 plots (15 grade/16 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: CRUISE A: 40°/220°
Cruise Line Spacing 8 (chains) 528 (Feet)
Cruise Plot Spacing 2.5 (chains) 165 (Feet)
Grade/Count Ratio 1:1

Take plots as marked on cruise map.

Grade minor species (true fir, spruce, cedar, maple, 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 < 15" 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); GF (Grand 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

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: Michele Huffman

Approved by: [Signature]

Date: 4/15/26

TIMBER CRUISE MAP

OF TIMBER SALE
HUNT QUARRY
PORTIONS OF SECTIONS
28 & 29 OF T8N, R6W, W.M.,
CLATSOP COUNTY, OREGON

Unit 1 - Cruise A BAF: 54.45

Line Azimuth: 40°/220°

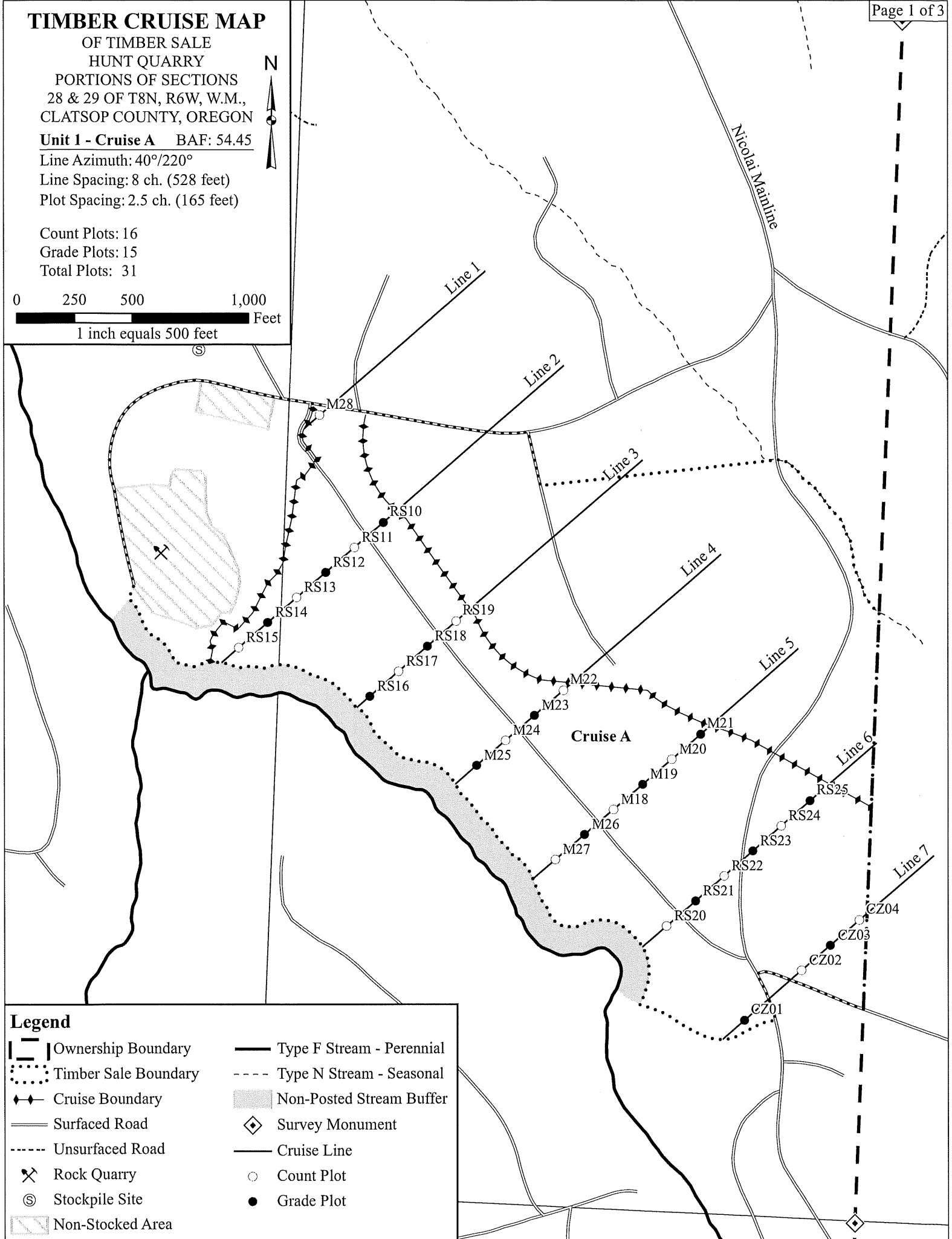
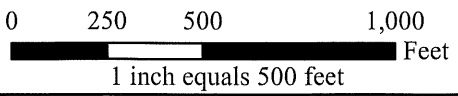
Line Spacing: 8 ch. (528 feet)

Plot Spacing: 2.5 ch. (165 feet)

Count Plots: 16

Grade Plots: 15

Total Plots: 31



Legend

- | | |
|----------------------|---------------------------|
| Ownership Boundary | Type F Stream - Perennial |
| Timber Sale Boundary | Type N Stream - Seasonal |
| Cruise Boundary | Non-Posted Stream Buffer |
| Surfaced Road | Survey Monument |
| Unsurfaced Road | Cruise Line |
| Rock Quarry | Count Plot |
| Stockpile Site | Grade Plot |
| Non-Stocked Area | |

**CRUISE DESIGN
ASTORIA DISTRICT**

Sale Name: Hunt Quarry

Units U1/Cruise B

Harvest Type: Clearcut

Approx. Cruise Acres: 27 **Estimated CV%** 50 Net BF/Acre **SE% Objective** 10% Net BF/Acre

Planned Sale Volume: 999 MBF **Estimated Sale Area Value/Acre:** \$15,725/Acre

A. Cruise Goals: (a) Grade minimum 60 conifer trees.
(b) Sample 26 plots (13 grade / 13 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: 40

Cruise Line Direction: CRUISE B: 40°/220°
Cruise Line Spacing 6 (chains) 396 (Feet)
Cruise Plot Spacing 2 (chains) 132 (Feet)
Grade/Count Ratio 1:1

Take plots as marked on cruise map.

Grade minor species (true fir, spruce, cedar, maple, 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 < 15" 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); GF (Grand 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

- 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: Michele Huffman

Approved by: 

Date: 4/15/26

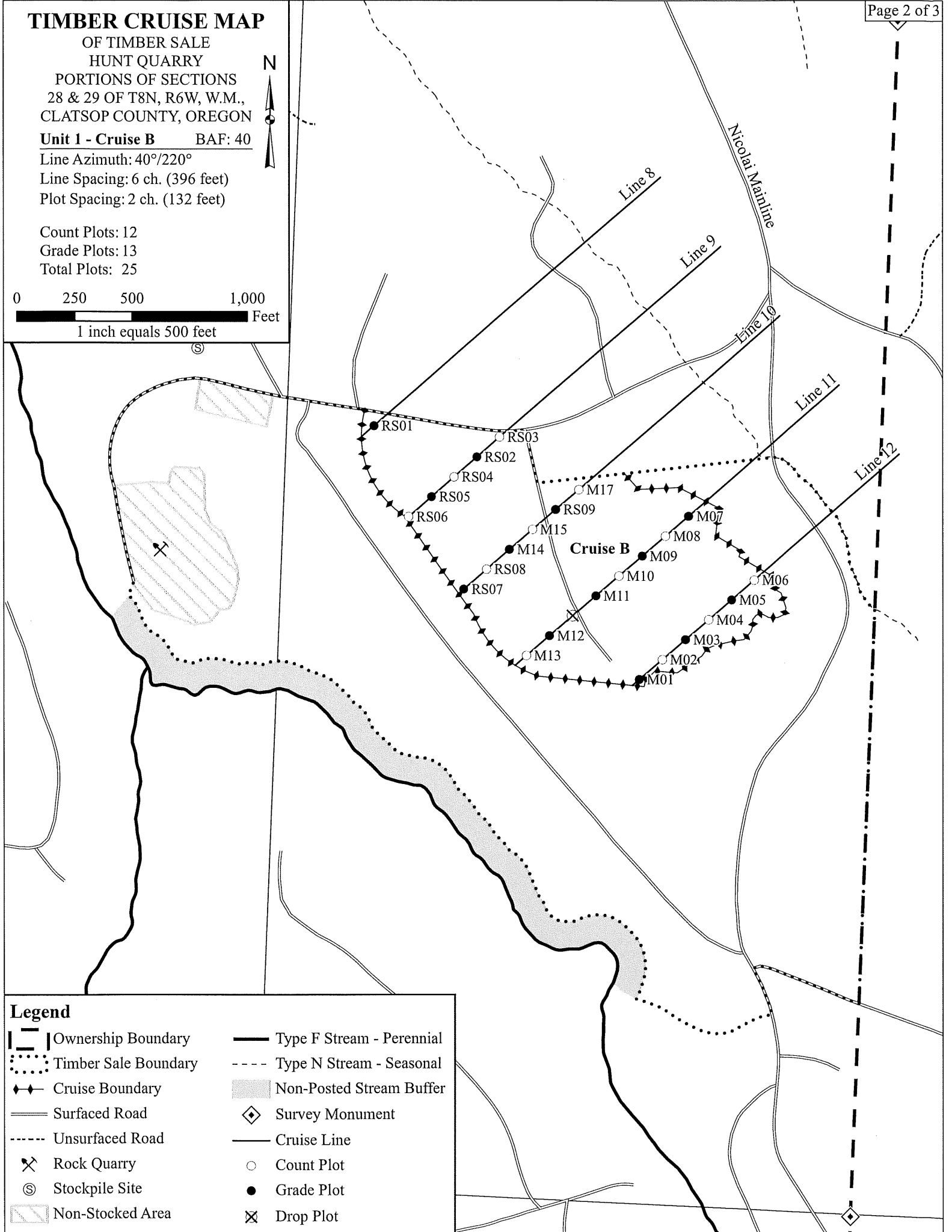
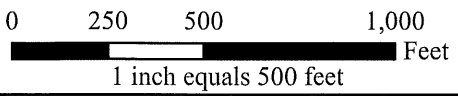
TIMBER CRUISE MAP

OF TIMBER SALE
HUNT QUARRY
PORTIONS OF SECTIONS
28 & 29 OF T8N, R6W, W.M.,
CLATSOP COUNTY, OREGON

Unit 1 - Cruise B BAF: 40

Line Azimuth: 40°/220°
Line Spacing: 6 ch. (396 feet)
Plot Spacing: 2 ch. (132 feet)

Count Plots: 12
Grade Plots: 13
Total Plots: 25



Legend

Ownership Boundary

Timber Sale Boundary

Cruise Boundary

Surfaced Road

Unsurfaced Road

Rock Quarry

Stockpile Site

Non-Stocked Area

Type F Stream - Perennial

Type N Stream - Seasonal

Non-Posted Stream Buffer

Survey Monument

Cruise Line

Count Plot

Grade Plot

Drop Plot

Nicolai Mainline

Line 8

Line 9

Line 10

Line 11

Line 12

Cruise B

**CRUISE DESIGN
ASTORIA DISTRICT**

Sale Name: Hunt Quarry

Units U1/Cruise C

Harvest Type: Clearcut

Approx. Cruise Acres: 27 **Estimated CV%** 50 Net BF/Acre **SE% Objective** 10% Net BF/Acre

Planned Sale Volume: 999 MBF **Estimated Sale Area Value/Acre:** \$15,725/Acre

A. Cruise Goals: (a) Grade minimum 60 conifer trees.
(b) Sample 31 plots (12 grade/19 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: 40

Cruise Line Direction: CRUISE C: 40°/220°
Cruise Line Spacing 5 (chains) 330 (Feet)
Cruise Plot Spacing 1.5 (chains) 99 (Feet)
Grade/Count Ratio 1:2

Take plots as marked on cruise map.

Grade minor species (true fir, spruce, cedar, maple, 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 < 15" 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:

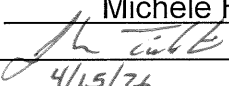
- A. Species: Record as D (Douglas-fir); H (Western hemlock); S (Sitka Spruce); C (Western red cedar); NF (Noble fir); GF (Grand fir); SF (Silver fir); A (Red alder); M (Bigleaf maple); SN (Snag). For "leave trees", add an "L" to the species code (such as DL, HL, CL, etc.).
- B. Sort: Use code "1" (Domestic).
- 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

- 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: Michele Huffman
Approved by: 
Date: 4/15/26

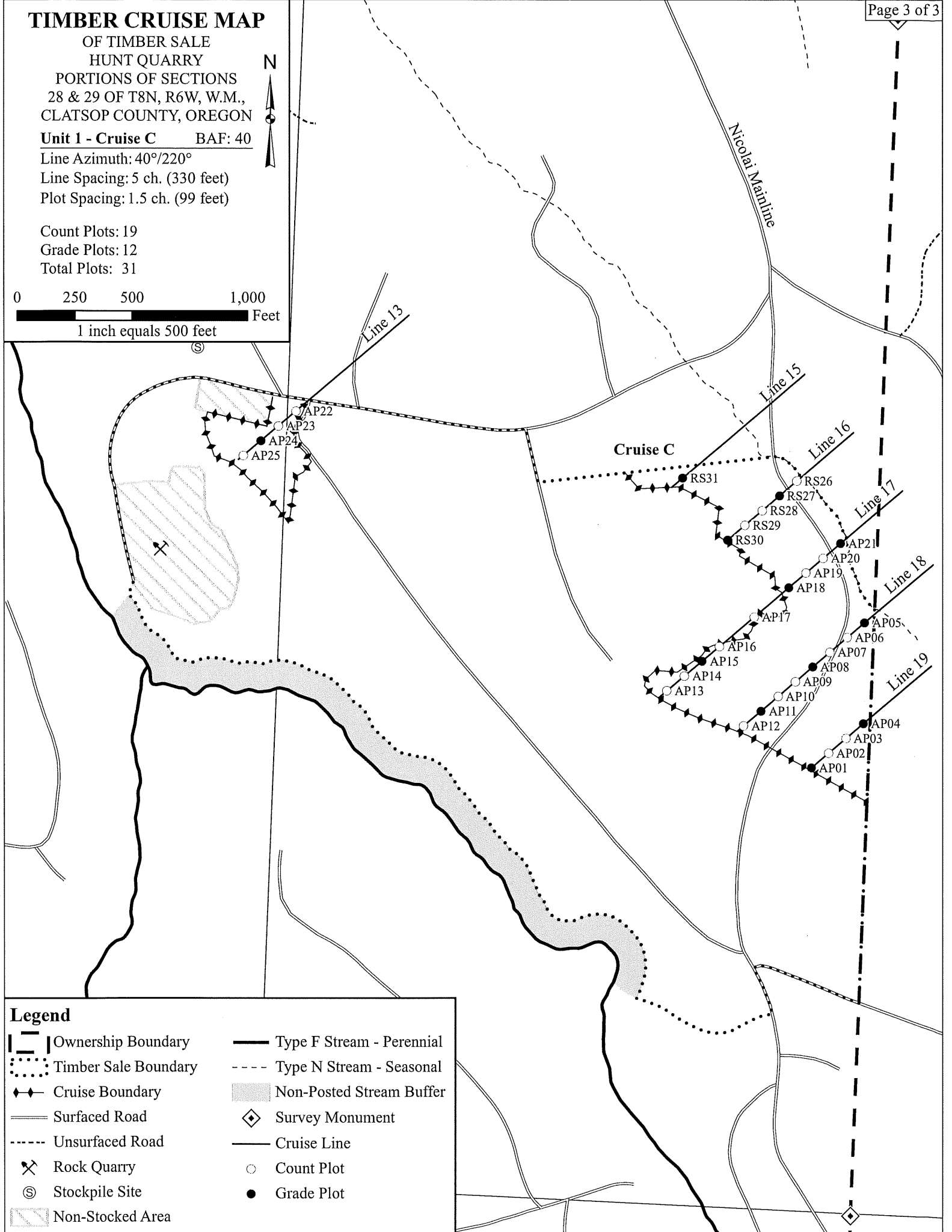
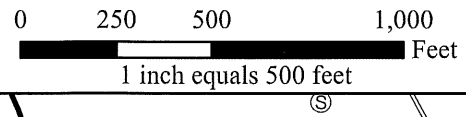
TIMBER CRUISE MAP

OF TIMBER SALE
HUNT QUARRY
PORTIONS OF SECTIONS
28 & 29 OF T8N, R6W, W.M.,
CLATSOP COUNTY, OREGON

Unit 1 - Cruise C BAF: 40

Line Azimuth: 40°/220°
Line Spacing: 5 ch. (330 feet)
Plot Spacing: 1.5 ch. (99 feet)

Count Plots: 19
Grade Plots: 12
Total Plots: 31



Legend

- | | |
|----------------------|---------------------------|
| Ownership Boundary | Type F Stream - Perennial |
| Timber Sale Boundary | Type N Stream - Seasonal |
| Cruise Boundary | Non-Posted Stream Buffer |
| Surfaced Road | Survey Monument |
| Unsurfaced Road | Cruise Line |
| Rock Quarry | Count Plot |
| Stockpile Site | Grade Plot |
| Non-Stocked Area | |

TC		PSPCSTGR		Species, Sort Grade - Board Foot Volumes (Project)																		
T08N R06W S28 Ty00CC59.00 T08N R06W S28 Ty00CC27.00 T08N R06W S28 Ty00CC27.00						Project: HQUARRY Acres113.00													Page1 Date5/5/2026 Time10:46:28AM			
S Spp	So Gr T rt ad	% Net BdFt	Bd. Ft. per Acre Def%GrossNet			Total Net MBF	Percent of Net Board Foot Volume								Average Log				Logs Per /Acre			
							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														11	22		0.00			.9	
H	DO2S	55	.4	7,843	7,811	883		1	49	50	2	0	5	93	39	16	412	2.41			19.0	
H	DO3S	27	2.5	3,886	3,787	428		81	14	5	3	6	17	73	35	9	109	0.99			34.7	
H	DO4S	7	1.4	964	950	107		100			44	35	13	8	20	6	24	0.47			39.4	
H	DO3P	4		654	654	74				100				100	40	24	975	4.31			.7	
H	DOSM	7		887	887	100				100				100	40	20	664	3.19			1.3	
H Totals		31	1.0	14,233	14,090	1,592		29	31	40	5	4	8	83	29	10	147	1.29			95.9	
S	DOCU														34	9		0.00			.2	
S	DO2S	38	2.1	1,008	987	112			12	88	4	7	15	74	37	19	535	3.35			1.8	
S	DO3S	61	7.4	1,688	1,563	177		9	8	83	10	9	10	72	31	16	382	3.13			4.1	
S	DO4S	1	16.4	14	12	1		100			41	59			23	8	33	0.80			.4	
S Totals		6	5.5	2,711	2,561	290 289		6	9	85	8	8	12	72	32	16	392	2.99			6.5	
D	DO2S	45	.2	12,848	12,819	1,448		4	27	70	0	1	2	97	39	16	465	2.44			27.6	
D	DO3S	16	5.8	4,599	4,331	489		1	75	13	6	18	18	59	33	9	104	0.95			41.7	
D	DO4S	1		383	383	43		100			94	6			17	6	24	0.42			16.1	
D	DO3P	12		3,414	3,414	386				100				100	40	26	1290	5.69			2.6	
D	DOSM	26		7,171	7,171	810			8	92				100	40	21	784	3.74			9.1	
D Totals		61	1.0	28,414	28,117	3,176 3,177		0	15	16	69	2	3	4	91	33	12	289	1.89			97.2
A	DO1S	24	3.1	323	313	35			72	28	32			68	26	14	199	1.85			1.6	
A	DO2S	8		115	115	13		53	47			100			28	11	129	1.11			.9	
A	DO3S	27	1.6	344	339	38		100			4	44		52	30	9	75	0.74			4.5	
A	DO4S	41	1.1	538	532	60		100			18	4	6	71	30	6	44	0.50			12.1	
A Totals		3	1.6	1,320	1,299	146 147		72	22	7	16	22	3	59	30	8	68	0.69			19.1	
M	DO4S	100		68	68	8		100				100			30	6	40	0.43			1.7	
M Totals		0		68	68	8		100				100			30	6	40	0.43			1.7	
Totals			1.3	46,746	46,134	5,212 5,213		0	20	20	59	4	5	5	86	31	11	209	1.56			220.5

TC PSTATS					PROJECT STATISTICS				PAGE	1		
					PROJECT	HQUARRY	DATE 5/5/2026					
TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt			
08N	06	28	CRUISEA	00CC	113.00	87	466	1	W			
08N	06W	28	CRUISEB	00CC								
08N	06W	28	CRUISEC	00CC								
					TREES	ESTIMATED	PERCENT					
					PER PLOT	TOTAL	SAMPLE					
						TREES	TREES					
TOTAL			87	466	5.4							
CRUISE			40	204	5.1	13,409		1.5				
DBH COUNT												
REFOREST												
COUNT			47	262	5.6							
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			85	59.3	17.2	50	23.1	95.6	14,233	14,090	3,636	3,636
DOUG FIR			76	40.6	23.4	82	25.0	120.8	28,414	28,117	6,015	6,015
S SPRUCE			23	3.1	30.1	70	2.8	15.5	2,711	2,561	626	626
R ALDER			16	12.6	13.4	47	3.4	12.4	1,320	1,299	392	392
SNAG			2	.9	27.5	39	0.7	3.7				
BL MAPLE			1	1.7	10.0	31	0.3	.9	68	68	22	22
WR CEDAR			1	.4	28.0	52	0.3	1.8	112	112	49	49
TOTAL			204	118.7	19.7	61	56.5	250.8	46,858	46,246	10,740	10,740
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			112.0	12.1	432	492	551					
DOUG FIR			83.4	9.6	1,010	1,117	1,224					
S SPRUCE			88.5	18.9	817	1,007	1,197					
R ALDER			86.6	22.3	125	161	197					
SNAG												
BL MAPLE												
WR CEDAR												
TOTAL			108.2	7.6	692	748	805	468	117	52		
CL	68.1	COEFF	TREES/ACRE					# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15		
WHEMLOCK			123.3	13.2	51	59	67					
DOUG FIR			104.7	11.2	36	41	45					
S SPRUCE			280.4	30.0	2	3	4					
R ALDER			265.4	28.4	9	13	16					
SNAG			458.3	49.1	0	1	1					
BL MAPLE			532.2	57.0	1	2	3					
WR CEDAR			655.7	70.2	0	0	1					
TOTAL			64.8	6.9	110	119	127	168	42	19		
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			93.9	10.1	86	96	105					
DOUG FIR			115.5	12.4	106	121	136					
S SPRUCE			268.1	28.7	11	16	20					
R ALDER			251.3	26.9	9	12	16					
SNAG			458.2	49.1	2	4	5					
BL MAPLE			532.2	57.0	0	1	1					
WR CEDAR			655.7	70.2	1	2	3					
TOTAL			58.6	6.3	235	251	267	137	34	15		

PROJECT STATISTICS

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
08N	06	28	CRUISEA	00CC	113.00	87	466	1	W
08N	06W	28	CRUISEB	00CC					
08N	06W	28	CRUISEC	00CC					

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		114.8	12.3	12,358	14,090	15,822			
DOUG FIR		134.7	14.4	24,059	28,117	32,175			
S SPRUCE		271.3	29.1	1,817	2,561	3,306			
R ALDER		259.9	27.8	937	1,299	1,660			
SNAG									
BL MAPLE		532.2	57.0	29	68	107			
WR CEDAR		655.7	70.2	33	112	190			
TOTAL		<i>82.4</i>	<i>8.8</i>	<i>42,162</i>	<i>46,246</i>	<i>50,330</i>	<i>271</i>	<i>68</i>	<i>30</i>

TC TSTATS				STATISTICS				PAGE 1			
				PROJECT		HQUARRY		DATE 5/5/2026			
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt		
08N	06W	28	CRUISEA	00CC	59.00	31	161	1	W		
				TREES	ESTIMATED	PERCENT					
				PER PLOT	TOTAL	SAMPLE					
					TREES	TREES					
TOTAL		31	161	5.2							
CRUISE		15	80	5.3	6,195		1.3				
DBH COUNT											
REFOREST											
COUNT		16	81	5.1							
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
DOUG FIR		49	37.1	29.9	109	33.1	180.9	48,330	47,760	9,835	9,835
WHEMLOCK		24	61.0	15.6	40	20.5	80.8	13,015	12,937	3,089	3,089
S SPRUCE		2	1.0	35.3	72	1.2	7.0	1,322	1,228	293	293
SNAG		2	1.7	27.5	39	1.3	7.0				
R ALDER		2	3.4	13.9	41	0.9	3.5	235	223	85	85
WR CEDAR		1	.8	28.0	52	0.7	3.5	214	214	94	94
TOTAL		80	105.0	22.2	65	60.0	282.8	63,115	62,362	13,397	13,397
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		
DOUG FIR		51.3	7.3	1,480	1,597	1,714					
WHEMLOCK		95.3	19.9	508	633	759					
S SPRUCE		90.1	84.4	228	1,460	2,692					
SNAG											
R ALDER		47.1	44.1	34	60	86					
WR CEDAR											
TOTAL		74.6	8.3	1,109	1,210	1,310	222	56	25		
CL: 68.1 %		COEFF	TREES/ACRE					# OF PLOTS REQ.		INF. POP.	
SD: 1.0		VAR.%	S.E.%	LOW	AVG	HIGH	5 10		15		
DOUG FIR		61.8	11.1	33	37	41					
WHEMLOCK		110.7	19.9	49	61	73					
S SPRUCE		336.6	60.4	0	1	2					
SNAG		264.2	47.4	1	2	3					
R ALDER		409.6	73.5	1	3	6					
WR CEDAR		387.1	69.5	0	1	1					
TOTAL		64.2	11.5	93	105	117	165	41	18		
CL: 68.1 %		COEFF	BASAL AREA/ACRE					# OF PLOTS REQ.		INF. POP.	
SD: 1.0		VAR.%	S.E.%	LOW	AVG	HIGH	5 10		15		
DOUG FIR		50.0	9.0	165	181	197					
WHEMLOCK		93.5	16.8	67	81	94					
S SPRUCE		331.3	59.5	3	7	11					
SNAG		264.1	47.4	4	7	10					
R ALDER		387.1	69.5	1	4	6					
WR CEDAR		387.1	69.5	1	4	6					
TOTAL		27.4	4.9	269	283	297	30	8	3		
CL: 68.1 %		COEFF	NET BF/ACRE					# OF PLOTS REQ.		INF. POP.	
SD: 1.0		VAR.%	S.E.%	LOW	AVG	HIGH	5 10		15		
DOUG FIR		50.1	9.0	43,462	47,760	52,057					
WHEMLOCK		121.2	21.7	10,124	12,937	15,751					
S SPRUCE		341.9	61.4	474	1,228	1,981					
SNAG											

TC TSTATS				STATISTICS				PAGE	2
				PROJECT	HQUARRY			DATE	5/5/2026
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
08N	06W	28	CRUISEA	00CC	59.00	31	161	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		455.7	81.8	41	223	406			
WR CEDAR		387.1	69.5	65	214	362			
TOTAL		29.8	5.3	59,029	62,362	65,695	35	9	4

TC TSTATS				STATISTICS				PAGE	1	
				PROJECT	HQUARRY			DATE	5/5/2026	
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
08N	06W	28	CRUISEB	00CC	27.00	25	127	1	W	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
					TREES	TREES				
PLOTS		TREES								
TOTAL		25		127		5.1				
CRUISE		13		65		5.0		1,989		3.3
DBH COUNT										
REFOREST										
COUNT		12		62		5.2				
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		25	34.7	23.2	77	21.2	102.4	17,191	16,858	4,302
S SPRUCE		21	10.8	29.0	69	9.2	49.6	8,456	8,037	1,979
DOUG FIR		10	13.5	19.8	79	6.5	28.8	4,821	4,821	1,211
R ALDER		9	14.6	16.8	55	5.5	22.4	2,753	2,688	768
TOTAL		65	73.7	22.5	72	42.8	203.2	33,222	32,404	8,261
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		104.9	21.4	527	670	813				
S SPRUCE		90.7	20.3	768	964	1,159				
DOUG FIR		45.5	15.1	371	437	503				
R ALDER		66.6	23.5	176	230	284				
TOTAL		105.5	13.1	581	668	755	444	111	49	
CL: 68.1 %	COEFF	TREES/ACRE					# OF PLOTS REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5		10	15	
WHEMLOCK		82.5	16.8	29	35	41				
S SPRUCE		153.5	31.3	7	11	14				
DOUG FIR		158.9	32.4	9	14	18				
R ALDER		222.0	45.3	8	15	21				
TOTAL		47.0	9.6	67	74	81	92	23	10	
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		76.5	15.6	86	102	118				
S SPRUCE		147.8	30.1	35	50	65				
DOUG FIR		163.0	33.2	19	29	38				
R ALDER		213.0	43.4	13	22	32				
TOTAL		33.6	6.8	189	203	217	47	12	5	
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		75.5	15.4	14,262	16,858	19,453				
S SPRUCE		148.7	30.3	5,599	8,037	10,475				
DOUG FIR		163.7	33.4	3,212	4,821	6,431				
R ALDER		208.6	42.5	1,544	2,688	3,832				
TOTAL		33.3	6.8	30,207	32,404	34,602	46	11	5	

TC TSTATS				STATISTICS				PAGE	1	
				PROJECT	HQUARRY			DATE	5/5/2026	
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
08N	06W	28	CRUISEC	00CC	27.00	31	178	1	W	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
					TREES	TREES				
TOTAL		31	178	5.7						
CRUISE		12	59	4.9	5,225	1.1				
DBH COUNT										
REFOREST										
COUNT		19	119	6.3						
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		36	80.1	16.7	55	29.7	121.3	13,938	13,839	4,163
DOUG FIR		17	75.3	14.1	52	21.7	81.3	8,488	8,488	2,472
R ALDER		5	31.0	11.4	45	6.5	21.9	2,259	2,259	688
BL MAPLE		1	7.1	10.0	31	1.2	3.9	284	284	92
TOTAL		59	193.5	14.7	51	59.5	228.4	24,969	24,870	7,415
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		92.5	15.4	231	273	315				
DOUG FIR		43.2	10.8	118	132	146				
R ALDER		34.3	17.1	63	76	89				
BL MAPLE										
TOTAL		101.0	13.1	184	212	240	408	102	45	
CL: 68.1 %	COEFF	TREES/ACRE					# OF PLOTS REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5 10		15		
WHEMLOCK		107.3	19.3	65	80	96				
DOUG FIR		104.3	18.7	61	75	89				
R ALDER		221.1	39.7	19	31	43				
BL MAPLE		310.6	55.7	3	7	11				
TOTAL		37.6	6.8	180	194	207	57	14	6	
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		100.2	18.0	99	121	143				
DOUG FIR		102.0	18.3	66	81	96				
R ALDER		220.0	39.5	13	22	31				
BL MAPLE		310.6	55.7	2	4	6				
TOTAL		37.6	6.8	213	228	244	57	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		98.6	17.7	11,390	13,839	16,289				
DOUG FIR		101.3	18.2	6,945	8,488	10,031				
R ALDER		221.8	39.8	1,360	2,259	3,158				
BL MAPLE		310.6	55.7	126	284	442				
TOTAL		39.5	7.1	23,109	24,870	26,632	62	16	7	

TC		PLOGSTVB		Log Stock Table - MBF																	
T08N R06W S28 Ty00CC59.00 T08N R06W S28 Ty00CC27.00 T08N R06W S28 Ty00CC27.00				Project: HQUARRY				Acres 113.00				Page 1				Date 5/5/2026				Time 10:46:30AM	
S Spp	T	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+	
H		DO	2S	16	6		6	.4							6						
H		DO	2S	20	10		10	.6							10						
H		DO	2S	28	2		2	.1					2								
H		DO	2S	32	42	1.9	41	2.6					25					16			
H		DO	2S	36	8		8	.5					8								
H		DO	2S	40	819		816	51.3					9	67	177	324	155	84			
H		DO	3S	12	2	33.3	1	.1					1								
H		DO	3S	18	5		5	.3					5								
H		DO	3S	20	6		6	.4					6								
H		DO	3S	24	5	11.7	4	.3				3				2					
H		DO	3S	26	19	2.0	18	1.1				6	6	6							
H		DO	3S	30	6	5.6	5	.3			4	2									
H		DO	3S	32	41	4.8	39	2.4			14	16	7	2							
H		DO	3S	34	36		36	2.3			7	11	18								
H		DO	3S	36	38	7.9	35	2.2			24	3				8					
H		DO	3S	38	17	6.0	16	1.0			2	9	5								
H		DO	3S	40	267	1.3	263	16.5			28	43	128	15	29	20					
H		DO	4S	12	17	1.5	17	1.0			16	1									
H		DO	4S	16	12		12	.7			12										
H		DO	4S	18	5		5	.3			5										
H		DO	4S	20	13		13	.8			12	1									
H		DO	4S	24	24		24	1.5			24										
H		DO	4S	26	2		2	.1			2										
H		DO	4S	28	3		3	.2			3										
H		DO	4S	30	9		9	.5			9										
H		DO	4S	32	3	42.9	2	.1				2									
H		DO	4S	34	13		13	.8			13										
H		DO	4S	36	9		9	.5			9										
H		DO	3P	40	74		74	4.6									36	38			
H		DO	SM	40	100		100	6.3							34		67				
H		Totals			1,608	1.0	1,592	30.5			183	95	185	126	205	403	257	123	16		
S		DO	2S	20	5		5	1.6									5				
S		DO	2S	26	8		8	2.7									8				
S		DO	2S	32	16		16	5.6							6			10			
S		DO	2S	40	85	2.8	83	28.6							9	47	27				

TC PLOGSTVB		Log Stock Table - MBF																		
T08N R06W S28 Ty00CC		59.00		Project: HQUARRY										Page 2						
T08N R06W S28 Ty00CC		27.00		Acres 113.00										Date 5/5/2026						
T08N R06W S28 Ty00CC		27.00												Time 10:46:30AM						
Spp	S T	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+
S		DO	3S	16	1		1	.3				1								
S		DO	3S	18	2	11.1	1	.5					1							
S		DO	3S	20	15		15	5.2				7		3	1	4				
S		DO	3S	26	16	1.8	16	5.4				1		1		13				
S		DO	3S	32	18	3.7	17	5.9			3	1			4		9			
S		DO	3S	38	2	10.5	2	.5					2							
S		DO	3S	40	138	9.2	125	43.2			2	2		6	39	8	11	57		
S		DO	4S	16	1		1	.2			1									
S		DO	4S	26	1	25.0	1	.3			1									
S		Totals			306	5.5	289	5.6			1	5	12	3	19	98	65	30	57	
D		DO	2S	20	5	16.7	4	.1						4						
D		DO	2S	30	14		14	.5					14							
D		DO	2S	32	16		16	.5				13	4							
D		DO	2S	34	10	6.7	10	.3						10						
D		DO	2S	36	18		18	.6				5			13					
D		DO	2S	40	1,388		1,386	43.6				37	78	176	406	540	150			
D		DO	3S	12	3	19.1	3	.1				1	1							
D		DO	3S	16	10	5.2	9	.3			3		2	2	2					
D		DO	3S	18	2		2	.1				2								
D		DO	3S	20	16	11.4	14	.4				8		6						
D		DO	3S	24	14		14	.4		5	2		7							
D		DO	3S	26	26	6.1	25	.8				7	17							
D		DO	3S	28	3		3	.1				3								
D		DO	3S	30	51	9.2	46	1.5				20	9	4		13				
D		DO	3S	32	73	1.0	72	2.3			19	39	10	4						
D		DO	3S	34	15		15	.5				15								
D		DO	3S	36	32	2.6	31	1.0			3	7	16	5						
D		DO	3S	38	11	8.5	10	.3				6	4							
D		DO	3S	40	264	7.0	246	7.7			26	39	102	25	9	14	32			
D		DO	4S	12	1		1	.0				1								
D		DO	4S	16	31		31	1.0			25	1	5							
D		DO	4S	18	3		3	.1			3									
D		DO	4S	20	6		6	.2			5	1								
D		DO	4S	24	2		2	.1			2									
D		DO	3P	40	386		386	12.1								67	236	83		

TC PLOGSTVB		Log Stock Table - MBF																	
T08N R06W S28 Ty00CC 59.00 T08N R06W S28 Ty00CC 27.00 T08N R06W S28 Ty00CC 27.00					Project: HQUARRY Acres 113.00										Page 3 Date 5/5/2026 Time 10:46:30AM				
S T	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+
D	DO	SM	40	810		810	25.5							65	126	319	222		79
D	Totals			3,211	1.0	3,177	60.9		5	88	138	239	137	273	572	957	607		162
A	DO	1S	12	4		4	2.6							4					
A	DO	1S	16	5		5	3.3							5					
A	DO	1S	20	3		3	1.7						3						
A	DO	1S	40	25	4.4	24	16.5						7	7	10				
A	DO	2S	26	6		6	4.1						6						
A	DO	2S	30	7		7	4.7					7							
A	DO	3S	20	2		2	1.0				2								
A	DO	3S	24	8		8	5.4				8								
A	DO	3S	30	9		9	6.2				9								
A	DO	3S	36	13		13	8.8				13								
A	DO	3S	40	8	8.3	7	4.7				7								
A	DO	4S	16	7		7	4.7			7									
A	DO	4S	20	4		4	2.7			4									
A	DO	4S	30	3	20.0	3	1.8			3									
A	DO	4S	32	2		2	1.3			2									
A	DO	4S	34	2		2	1.4			2									
A	DO	4S	36	3		3	1.7			3									
A	DO	4S	40	40		40	27.4			40									
A	Totals			149	1.6	147	2.8			60	38	7	16	16	10				
M	DO	4S	30	8		8	100.0			8									
M	Totals			8		8	.1			8									
Total	All Species			5,282	1.3	5,213	100.0		5	340	276	443	282	513	1082	1279	760	234	

TC		PSTNDSUM		Stand Table Summary										Page		1	
														Date:		5/5/2026	
T08N R06W S28 Ty00CC59.00 T08N R06W S28 Ty00CC27.00 T08N R06W S28 Ty00CC27.00				ProjectHQUARRY Acres113.00										Time:10:46:29AM Grown Year:			
S Spc	T	Sample		Tot		Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals			
		DBH	Trees	FF 16'	Av Ht				Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF	
D		11	3	85	84	5.194	3.43	6.93	13.5	50.0		93	346		106	39	
D		12	2	86	86	2.909	2.29	5.82	12.0	45.0		70	262		79	30	
D		13	1	85	80	1.240	1.14	2.48	13.5	45.0		33	112		38	13	
D		14	3	86	79	2.781	2.97	5.56	16.5	58.1		92	323		104	37	
D		15	3	86	77	2.423	2.97	4.85	19.0	63.9		92	309		104	35	
D		16	1	92	83	1.381	1.93	2.76	24.0	90.0		66	249		75	28	
D		17	3	84	82	2.175	3.43	4.35	26.3	85.0		115	370		129	42	
D		18	4	87	91	2.329	4.12	4.66	29.8	107.8		139	502		157	57	
D		19	1	91	103	.349	.69	.70	41.5	150.0		29	105		33	12	
D		20	1	82	83	.524	1.14	1.05	36.0	105.0		38	110		43	12	
D		21	2	92	122	1.603	3.86	4.81	40.2	178.3		193	858		218	97	
D		22	1	85	134	.730	1.93	2.19	44.0	180.0		96	394		109	45	
D		23	3	90	129	1.145	3.30	3.20	53.0	231.2		170	739		192	84	
D		24	2	89	151	1.227	3.86	3.68	58.2	256.7		214	945		242	107	
D		25	4	89	109	.807	2.75	2.02	58.2	236.0		117	476		133	54	
D		27	4	87	142	1.939	7.71	5.82	71.0	316.7		413	1,842		467	208	
D		28	2	87	153	.902	3.86	2.70	82.3	395.0		223	1,068		252	121	
D		29	2	88	151	.841	3.86	2.52	86.3	418.3		218	1,055		246	119	
D		30	4	89	143	1.571	7.71	4.71	88.9	431.7		419	2,034		474	230	
D		31	4	89	143	1.471	7.71	4.41	93.8	452.5		414	1,997		468	226	
D		32	3	86	137	1.035	5.78	3.11	95.9	447.8		298	1,391		337	157	
D		33	2	86	149	.649	3.86	1.95	108.5	516.7		211	1,006		239	114	
D		34	3	87	129	.917	5.78	2.75	101.6	474.4		279	1,306		316	148	
D		35	2	87	148	.577	3.86	1.73	120.7	596.7		209	1,033		236	117	
D		36	5	87	148	1.364	9.64	4.36	120.6	589.4		526	2,572		595	291	
D		37	3	90	159	.775	5.78	2.58	135.5	725.0		350	1,872		395	212	
D		38	1	88	158	.245	1.93	.73	157.3	833.3		116	612		131	69	
D		39	3	88	140	.697	5.78	2.09	144.6	758.9		302	1,587		342	179	
D		40	1	92	146	.221	1.93	.66	164.0	880.0		109	583		123	66	
D		43	1	88	159	.191	1.93	.57	203.3	1116.7		117	640		132	72	
D		44	1	89	166	.183	1.93	.73	161.5	885.0		118	646		133	73	
D		45	1	91	186	.175	1.93	.70	195.8	1105.0		137	771		154	87	
D		Totals	76	87	111	40.569	120.76	97.19	61.9	289.3		6,015	28,117		6,797	3,177	
H		8	2	84	17	10.071	3.52	10.07	4.0	10.0		40	101		46	11	
H		10	2	86	42	6.446	3.52	6.45	9.0	30.0		58	193		66	22	
H		11	3	84	65	3.659	2.42	4.88	13.2	42.5		65	207		73	23	
H		12	3	87	54	4.288	3.37	4.29	18.4	54.8		79	235		89	27	
H		13	4	85	64	4.527	4.17	7.15	16.9	48.6		121	347		136	39	
H		15	3	83	64	2.744	3.37	4.06	25.1	71.3		102	289		115	33	
H		16	6	84	66	4.948	6.91	8.64	24.4	75.1		211	649		238	73	
H		17	3	85	86	1.532	2.42	3.06	30.2	100.0		92	306		104	35	
H		18	6	86	84	2.930	5.18	5.40	35.5	121.6		192	657		217	74	
H		19	2	84	64	1.302	2.56	2.60	30.4	93.4		79	243		89	27	
H		20	5	86	84	2.084	4.55	4.17	41.0	134.9		171	562		193	64	
H		21	6	87	95	2.476	5.96	5.35	46.7	181.9		250	973		282	110	
H		22	4	86	87	1.712	4.52	3.42	51.4	171.7		176	588		199	66	
H		23	6	88	93	2.455	7.08	4.91	57.3	218.4		281	1,072		318	121	
H		24	6	86	109	2.007	6.30	4.88	60.3	231.3		295	1,130		333	128	
H		25	2	89	120	.803	2.74	2.12	67.2	294.1		142	624		161	70	
H		26	2	92	87	.531	1.96	1.06	73.2	305.0		78	324		88	37	
H		27	2	92	129	.688	2.74	1.82	83.5	403.5		152	734		172	83	
H		28	4	88	93	.875	3.74	1.98	77.8	317.8		154	629		174	71	
H		29	2	90	97	.427	1.96	.85	98.2	432.5		84	369		95	42	

TC		PSTNDSUM		Stand Table Summary										Page		2	
														Date:		5/5/2026	
T08N R06W S28 Ty00CC 59.00 T08N R06W S28 Ty00CC 27.00 T08N R06W S28 Ty00CC 27.00				Project				HQUARRY				Time:		10:46:29AM			
				Acres				113.00				Grown Year:					
S Spec T	Sample		Tot					Average Log		Net		Net		Totals			
	DBH	Trees	FF	Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Net Cu.Ft.	Net Bd.Ft.	Tons/ Acre	Cu.Ft. Acre	Bd.Ft. Acre	Tons	Cunits	MBF		
H	30	1	86	124	.358	1.76	1.07	84.0	393.3		90	423		102	48		
H	31	4	87	124	1.160	6.08	3.33	97.1	467.5		323	1,555		365	176		
H	33	2	86	130	.592	3.52	1.78	104.5	511.7		186	909		210	103		
H	35	3	87	106	.530	3.54	1.32	105.3	469.3		139	621		157	70		
H	39	1	79	89	.097	.81	.19	158.5	585.0		31	114		35	13		
H	54	1	82	135	.062	.98	.18	245.7	1283.3		45	237		51	27		
H	Totals	85	85	65	59.303	95.63	95.04	38.3	148.2		3,636	14,090		4,108	1,592		
S	21	1	89	82	.235	.56	.47	47.0	135.0		22	63		25	7		
S	22	1	85	88	.214	.56	.21	88.0	360.0		19	77		21	9		
S	26	3	87	89	.459	1.69	.92	73.2	286.7		67	263		76	30		
S	27	3	86	87	.426	1.69	.71	87.4	332.0		62	236		70	27		
S	29	4	85	80	.492	2.26	.98	85.2	283.8		84	279		95	32		
S	30	1	85	96	.115	.56	.23	85.5	480.0		20	110		22	12		
S	31	1	83	74	.350	1.83	.70	92.0	265.0		64	185		73	21		
S	32	3	85	99	.303	1.69	.71	98.4	460.0		70	325		79	37		
S	34	1	82	82	.090	.56	.18	118.5	405.0		21	73		24	8		
S	36	2	85	88	.160	1.13	.32	140.0	582.5		45	186		51	21		
S	41	1	92	135	.062	.56	.18	185.7	850.0		34	157		39	18		
S	42	1	85	108	.191	1.83	.57	155.3	796.7		89	456		100	51		
S	53	1	83	127	.037	.56	.11	266.3	1363.3		29	151		33	17		
S	Totals	23	86	89	3.132	15.52	6.30	99.4	406.7		626	2,561		708	289		
A	9	1	86	86	2.373	1.05	2.37	15.0	60.0		36	142		40	16		
A	11	1	87	70	1.588	1.05	1.59	19.0	60.0		30	95		34	11		
A	12	2	86	73	2.502	1.97	5.00	12.5	40.0		63	200		71	23		
A	13	2	86	72	1.782	1.64	2.92	19.0	62.2		55	182		63	21		
A	14	3	87	66	2.093	2.24	3.21	21.4	63.5		69	203		78	23		
A	17	2	87	46	.959	1.51	1.34	23.2	59.8		31	80		35	9		
A	18	1	87	65	.337	.59	.67	27.0	100.0		18	67		21	8		
A	19	1	86	62	.302	.59	.60	28.0	100.0		17	60		19	7		
A	20	1	86	91	.273	.59	.55	44.0	150.0		24	82		27	9		
A	21	1	87	98	.247	.59	.49	51.0	155.0		25	77		28	9		
A	24	1	86	100	.189	.59	.38	64.5	290.0		24	110		28	12		
A	Totals	16	86	72	12.646	12.43	19.12	20.5	67.9		392	1,299		443	147		
M	10	1	87	56	1.696	.92	1.70	13.0	40.0		22	68		25	8		
M	Totals	1	87	56	1.696	.92	1.70	13.0	40.0		22	68		25	8		
Totals		201	86	82	117.346	245.27	219.35	48.7	210.3		10,691	46,134		12,081	5,213		

LOGGING PLAN MAP

OF TIMBER SALE CONTRACT
NO. AT-341-2027-W01347-01
HUNT QUARRY
PORTIONS OF SECTIONS
28 & 29 OF T8N, R6W, W.M.,
CLATSOP COUNTY, OREGON

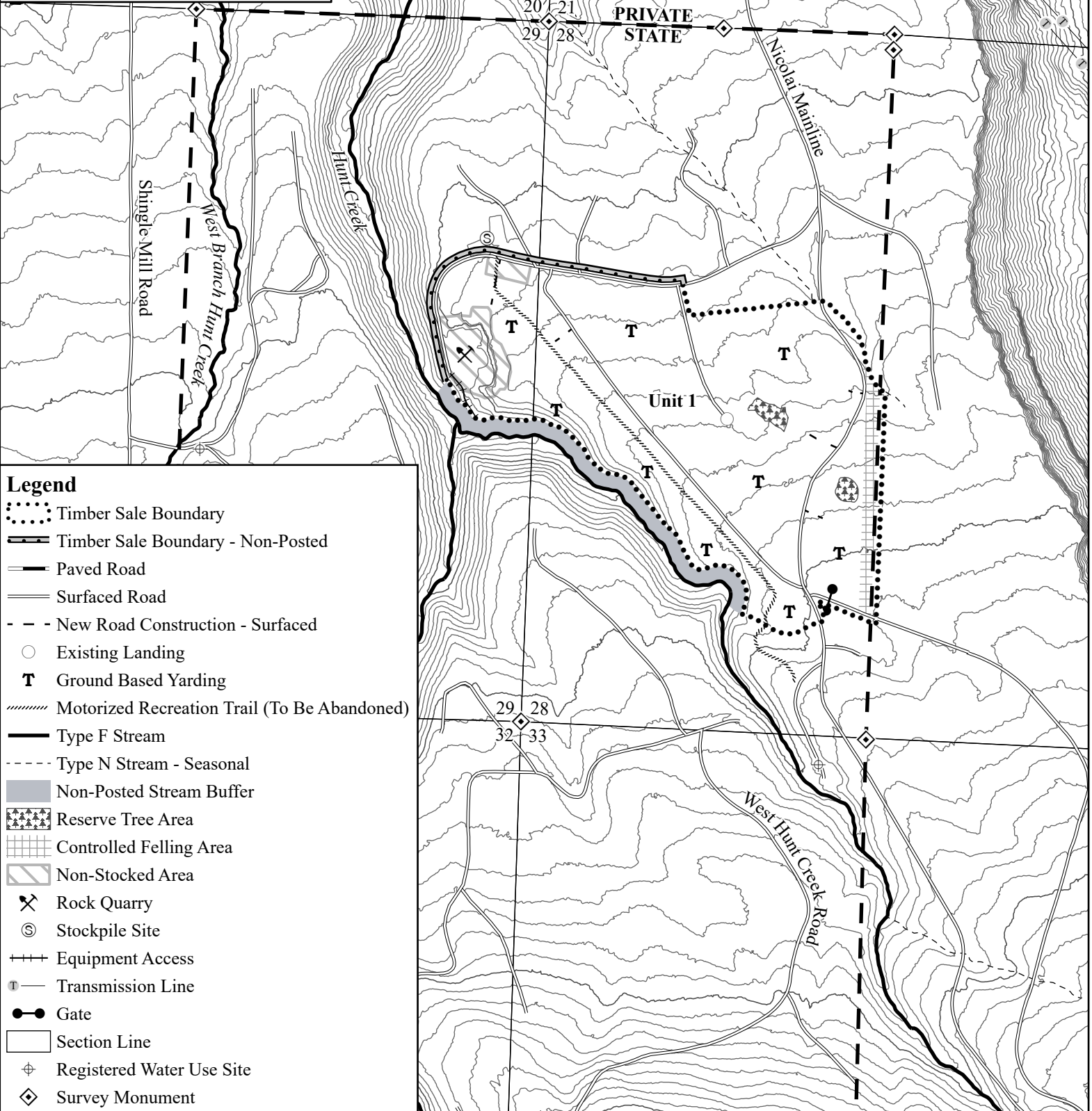


Logging Breakdown Tractor Cable Acres

Unit 1 (CC)	100%	0%	113
Unit 2 (R/W)	100%	0%	<1
Total	100%	0%	113

0 500 1,000 2,000 Feet

1 inch equals 1,000 feet



Legend

- Timber Sale Boundary
- Timber Sale Boundary - Non-Posted
- Paved Road
- Surfaced Road
- New Road Construction - Surfaced
- Existing Landing
- Ground Based Yarding
- Motorized Recreation Trail (To Be Abandoned)
- Type F Stream
- Type N Stream - Seasonal
- Non-Posted Stream Buffer
- Reserve Tree Area
- Controlled Felling Area
- Non-Stocked Area
- Rock Quarry
- Stockpile Site
- Equipment Access
- Transmission Line
- Gate
- Section Line
- Registered Water Use Site
- Survey Monument