



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Big Rock Candy Mountain
Sale WO-341-2027-W01268-01

District: West Oregon

Date: May 26, 2026

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$1,038,506.67	\$12,395.52	\$1,050,902.19
		Project Work:	(\$66,398.00)
		Advertised Value:	\$984,504.19



Timber Sale Appraisal Big Rock Candy Mountain Sale WO-341-2027-W01268-01

District: West Oregon

Date: May 26, 2026

Timber Description

Location: Portions of Section 28, T9S, R8W, Polk County, Oregon.

Stand Stocking: 80%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	22	0	98
Western Hemlock / Fir	23	0	98
Alder (Red)	13	0	96

Volume by Grade	2S	3S & 4S 6"-11"	Camprun	Total
Douglas - Fir	1,124	719	0	1,843
Western Hemlock / Fir	614	361	0	975
Alder (Red)	0	0	72	72
Total	1,738	1,080	72	2,890

Comments: Pond Values Used: Local Pond Values, April 2026

Western redcedar and Other conifers Stumpage Price = Pond Value minus Logging Cost: \$929.79/MBF = \$1,262.00/MBF - \$332.21/MBF

Other Hardwoods Stumpage Price = Hardwood Pulp price using a conversion factor of 10 ton/MBF: = \$25.00/MBF

PULP (Conifer and Hardwood Price) = \$2.50/TON

Other Costs (with Profit & Risk to be added): Equipment Cleaning (Invasive Species): \$2,000
TOTAL Other Costs (Profit & Risk added) = \$2,000

Other Costs (No Profit & Risk added): None

ROAD MAINTENANCE

Move-in:(Roller, Grader) \$1,900
Final Road Maintenance: \$35,733.57
TOTAL Road Maintenance: \$37,633.57/2,890 = \$13.02/MBF

SLASH DISPOSAL

Move-In and Weed Wash = \$0 (Use on-site Shovel)
29 hours @ \$185/hr = \$5,365.00
Landing Slash Piling and sorting out firewood: 5 Landings @ \$200/Landing = \$1,000
Total Slash Disposal = \$6,365.00



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Logging Conditions

Combination#: 1 Douglas - Fir 63.00%
 Western Hemlock / Fir 63.00%
 Alder (Red) 63.00%

Logging System: Cable: Medium Tower >40 - <70 **Process:** Harvester Head Delimbing
yarding distance: Short (400 ft) **downhill yarding:** No
tree size: Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF
loads / day: 12 **bd. ft / load:** 4500
cost / mbf: \$147.74
machines: Log Loader (A)
 Forwarder
 Harvester
 Tower Yarder (Medium)

Combination#: 2 Douglas - Fir 37.00%
 Western Hemlock / Fir 37.00%
 Alder (Red) 37.00%

Logging System: Shovel **Process:** Harvester Head Delimbing
yarding distance: Short (400 ft) **downhill yarding:** No
tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF
loads / day: 20 **bd. ft / load:** 4500
cost / mbf: \$111.11
machines: Forwarder
 Harvester



Timber Sale Appraisal
Big Rock Candy Mountain
Sale WO-341-2027-W01268-01

District: West Oregon

Date: May 26, 2026

Logging Costs

Operating Seasons: 2.00	Profit Risk: 12%
Project Costs: \$66,398.00	Other Costs (P/R): \$2,000.00
Slash Disposal: \$6,365.00	Other Costs: \$0.00

Miles of Road

Road Maintenance: \$13.02

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	4.5
Western Hemlock / Fir	\$0.00	2.0	4.5
Alder (Red)	\$0.00	2.0	4.0



"STEWARDSHIP IN FORESTRY"

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Date: May 26, 2026

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas - Fir									
\$134.19	\$13.28	\$3.04	\$141.67	\$0.69	\$35.14	\$2.20	\$2.00	\$0.00	\$332.21
Western Hemlock / Fir									
\$134.19	\$13.28	\$3.04	\$141.67	\$0.69	\$35.14	\$2.20	\$2.00	\$0.00	\$332.21
Alder (Red)									
\$134.19	\$13.54	\$3.04	\$162.50	\$0.69	\$37.68	\$2.20	\$2.00	\$0.00	\$355.84

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$784.40	\$452.19	\$0.00
Western Hemlock / Fir	\$0.00	\$542.59	\$210.38	\$0.00
Alder (Red)	\$0.00	\$528.00	\$172.16	\$0.00



Timber Sale Appraisal
Big Rock Candy Mountain
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Summary

Amortized

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

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	1,843	\$452.19	\$833,386.17
Western Hemlock / Fir	975	\$210.38	\$205,120.50
Alder (Red)	72	\$172.16	\$12,395.52

Gross Timber Sale Value

Recovery: \$1,050,902.19

Prepared By: Aaron McEwen

Phone: 541-929-3266

SUMMARY OF ALL PROJECT COSTS

Sale Name: Big Rock Candy Mountain

Date: May 2026

Time: 14:57

Project #1 - Improvements

<u>Road Segment</u>	<u>Length</u>	<u>Cost</u>
1 to 2	486.0 sta	\$21,622
3 to 4	15.2 sta	\$8,854
5 to 6	6.5 sta	\$11,997
7 to 8	20.5 sta	\$11,611
9 to 10	3.7 sta	\$7,464
TOTALS	531.9 sta	\$61,548

Project #2 - Move in

	<u>Cost</u>
Excavator, C325 or equiv.	\$1,500
Dozer, D-6 or equiv.	\$950
Grader, Cat 14-G or equiv.	\$950
Vibratory roller	\$950
Backhoe, C580 or equiv.	\$500
TOTAL	\$4,850

GRAND TOTAL **\$66,398**

Compiled by: Aaron McEwen

Date 05/27/2026

SUMMARY OF CONSTRUCTION COST

SALE Big Rock Candy Mountain Project # 1 LENGTH 486.0 sta
ROAD 1 to 2

IMPROVEMENT

			<u>Rate</u>			
Re-establish Ditch (w/ backhoe) (Sta. 332+30 to Sta. 336+30)	4.0 sta	@	\$54.00	/sta	=	\$216
Process surface (w/ grader)	200.0 sta	@	\$22.69	/sta	=	\$4,538
Compact surface (w/ roller)	200.0 sta	@	\$17.50	/sta	=	\$3,500
TOTAL IMPROVEMENT =						\$8,254

SURFACING

		<u>Size</u>		<u>Rate</u>		
Turnout rock (2) (Sta. 464+90 & Sta. 472+50)	20 CY	3"-0"	@	\$34.71	/CY	= \$694
Spot rock	300 CY	1½"-0"	@	\$36.06	/CY	= \$10,818
Culvert bedding rock	20 CY	1½"-0"	@	\$36.06	/CY	= \$721
TOTAL ROCK COST =						\$12,233

SPECIAL PROJECTS

			<u>Rate</u>			
Culvert (18"x32')	30 ft	@	\$16.50	/ft	=	\$495
Install culvert (Sta. 340+00)	2.5 hrs	@	\$160.00	/hr	=	\$400
Bedding compaction	1.5 hrs	@	\$60.00	/hr	=	\$90
Culvert disposal	1 culvert	@	\$100	ea	=	\$100
Clean out culverts (inlets and outlets) (Sta. 233+80 & Sta. 311+00)	2 culverts	@	\$25	ea	=	\$50
TOTAL SPECIAL PROJECTS COST =						\$1,135

Compiled by:
Date:

Aaron McEwen
May 27, 2026

GRAND TOTAL =====> \$21,622

SUMMARY OF CONSTRUCTION COST

SALE ROAD	Big Rock Candy Mountain 3 to 4	Project #	1	LENGTH	15.2 sta
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EXCAVATION

Construct landing (Sta. 4+80)	1 Idg	@	<u>Rate</u> \$480.00	/ldg = \$480	
				TOTAL EXCAVATION =	\$480

IMPROVEMENT

Remove Sod (w/ grader)	15.2 sta	@	<u>Rate</u> \$16.95	/sta = \$258	
Process surface (w/ grader)	15.2 sta	@	\$22.69	/sta = \$345	
Compact surface (w/ roller)	15.2 sta	@	\$17.50	/sta = \$266	
				TOTAL IMPROVEMENT =	\$869

SURFACING

Surface rock (2"lift)	170 CY	<u>Size</u> 1½"-0"	@	<u>Rate</u> \$36.06	/CY = \$6,130
Landing rock (Sta. 4+80)	40 CY	Jaw-Run	@	\$34.37	/CY = \$1,375
				TOTAL ROCK COST =	\$7,505

Compiled by:	Aaron McEwen
Date:	May 27, 2026

GRAND TOTAL =====> \$8,854

SUMMARY OF CONSTRUCTION COST

SALE Big Rock Candy Mountain Project # 1 LENGTH 6.5 sta
ROAD 5 to 6

IMPROVEMENT

			<u>Rate</u>			
Re-open road (w/ dozer)	6.5 sta	@	\$41.00	/sta	=	\$267
Re-open 2 landings (w/ dozer)	1.5 hrs	@	\$140.00	/hr	=	\$210
Shape subgrade (w/ grader)	6.5 sta	@	\$22.69	/sta	=	\$147
Compact subgrade (w/ roller)	6.5 sta	@	\$17.50	/sta	=	\$114
Process surface (w/ dozer or grader)	6.5 sta	@	\$22.69	/sta	=	\$147
Compact surface (w/ roller)	6.5 sta	@	\$17.50	/sta	=	\$114

TOTAL IMPROVEMENT = \$999

SURFACING

		<u>Size</u>	<u>Rate</u>			
Base rock (8")	290 CY	Jaw-Run	@	\$34.37	/CY	= \$9,967
Landing rock	30 CY	Jaw-Run	@	\$34.37	/CY	= \$1,031

TOTAL ROCK COST = \$10,998

Compiled by: Aaron McEwen
Date: May 27, 2026

GRAND TOTAL =====> \$11,997

SUMMARY OF CONSTRUCTION COST

SALE Big Rock Candy Mountain Project # 1 LENGTH 20.5 sta
ROAD 7 to 8

IMPROVEMENT

			<u>Rate</u>			
Re-establish Ditch (w/ backhoe) (Sta. 10+00 to Pt. 9)	7.6 sta	@	\$54.00	/sta	=	\$410
Remove Sod (w/ grader)	20.5 sta	@	\$16.95	/sta	=	\$347
Process surface (w/ grader)	20.5 sta	@	\$22.69	/sta	=	\$465
Compact surface (w/ roller)	20.5 sta	@	\$17.50	/sta	=	\$359

TOTAL IMPROVEMENT = \$1,581

SURFACING

		<u>Size</u>		<u>Rate</u>		
Surface rock (2"lift)	230 CY	1½"-0"	@	\$36.06	/CY	= \$8,294
Turnaround rock (Pt. 8)	50 CY	3"-0"	@	\$34.71	/CY	= \$1,736

TOTAL ROCK COST = \$10,030

Compiled by: Aaron McEwen
Date: May 27, 2026

GRAND TOTAL =====> \$11,611

SUMMARY OF CONSTRUCTION COST

SALE ROAD	Big Rock Candy Mountain 9 to 10	Project #	1	LENGTH	3.7 sta
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IMPROVEMENT

			<u>Rate</u>			
Re-open road (w/ dozer)	3.7 sta	@	\$41.00	/sta	=	\$152
Re-open landing (w/ dozer)	1.0 hrs	@	\$140.00	/hr	=	\$140
Shape subgrade (w/ grader)	3.7 sta	@	\$22.69	/sta	=	\$84
Compact subgrade (w/ roller)	3.7 sta	@	\$17.50	/sta	=	\$65
Process surface (w/ dozer or grader)	3.7 sta	@	\$22.69	/sta	=	\$84
Compact surface (w/ roller)	3.7 sta	@	\$17.50	/sta	=	\$65
TOTAL IMPROVEMENT =						\$590

SURFACING

		<u>Size</u>		<u>Rate</u>		
Base rock (8")	170 CY	Jaw-Run	@	\$34.37	/CY	= \$5,843
Landing rock	30 CY	Jaw-Run	@	\$34.37	/CY	= \$1,031
TOTAL ROCK COST =						\$6,874

Compiled by:
Date:

Aaron McEwen
May 27, 2026

GRAND TOTAL =====> \$7,464

SUMMARY OF MAINTENANCE COST

SALE

Big Rock Candy Mountain

Final log haul Maintenance Cost Estimate

(Costed in appraisal, not in project costs)

Move-in

Grader

\$950.00

Vibratory Roller

\$950.00

Road Segment	Length	Cost/Sta	Cost	Mileage
1 to 2	486.0	\$40.19	\$19,532.34	9.20
3 to 4	15.2	\$40.19	\$610.89	0.29
5 to 6	6.5	\$40.19	\$261.24	0.12
7 to 8	20.5	\$40.19	\$823.90	0.39
9 to 10	3.7	\$40.19	\$148.70	0.07
Total	531.9		\$21,377.07	10.07

Maintenance Rock:

	Volume	Cost/CY	Cost
1½"-0"	350	\$36.06	\$12,621.00
3"-0"	50	\$34.71	\$1,735.50

Grand Total

\$37,633.57

TS Volume

2,890 MBF

$$\text{Cost} / \text{MBF} =$$

\$13.02

ROAD SEGMENT	1 to 2			POINT TO POINT		Sta. to Sta.		TOTAL VOLUME (CY)	TOTAL VOLUME (TONS)
Application	Rock Size and Type	Location	Depth of Rock (inches)	1 to 2		0+00 to 486+00			
				Volume (CY) per		Number of			
Turnout rock	3"-0"	Sta. 464+90 & Sta. 472+50	n/a	10	Turnout	2	Turnouts	20	27
Spot rock	1 1/2"-0"	0+00 to 486+00	n/a	10	Load	30	Loads	300	405
Culvert bedding rock	1 1/2"-0"	Sta. 340+00	n/a	20	Culvert	1	Culverts	20	27
Total Rock for Road Segment		1 to 2						340	459

ROAD SEGMENT	3 to 4			POINT TO POINT		Sta. to Sta.		TOTAL VOLUME (CY)	TOTAL VOLUME (TONS)
Application	Rock Size and Type	Location	Depth of Rock (inches)	3 to 4		0+00 to 15+20			
				Volume (CY) per		Number of			
Surface rock	1 1/2"-0"	0+00 to 15+20	2	11	Station	15.2	Stations	170	230
Landing rock	Jaw-run	Sta. 4+80	n/a	1	Landing	40	Landing	40	54
Total Rock for Road Segment		3 to 4						210	284

ROAD SEGMENT	5 to 6			POINT TO POINT		Sta. to Sta.		TOTAL VOLUME (CY)	TOTAL VOLUME (TONS)
Application	Rock Size and Type	Location	Depth of Rock (inches)	5 to 6		0+00 to 6+50			
				Volume (CY) per		Number of			
Base rock	Jaw-run	0+00 to 6+50	8	44	Station	6.5	Stations	290	392
Landing rock	Jaw-run	6+50	n/a	30	Landing	1	Landing	30	41
Total Rock for Road Segment		5 to 6						320	433

ROAD SEGMENT	7 to 8			POINT TO POINT		Sta. to Sta.		TOTAL VOLUME (CY)	TOTAL VOLUME (TONS)
Application	Rock Size and Type	Location	Depth of Rock (inches)	7 to 8		0+00 to 20+50			
				Volume (CY) per		Number of			
Surface rock	1 1/2"-0"	0+00 to 20+50	2	11	Station	20.5	Stations	230	311
Turnaround Rock	3"-0"	20+50	n/a	50	TA	1	TA	50	68
Total Rock for Road Segment		7 to 8						280	379

ROAD SEGMENT	9 to 10			POINT TO POINT		Sta. to Sta.		TOTAL VOLUME (CY)	TOTAL VOLUME (TONS)
Application	Rock Size and Type	Location	Depth of Rock (inches)	9 to 10		0+00 to 3+70			
				Volume (CY) per		Number of			
Base rock	Jaw-run	0+00 to 3+70	8	44	Station	3.7	Stations	180	243
Landing rock	Jaw-run	3+70	n/a	20	Landing	1	Landing	20	27
Total Rock for Road Segment		9 to 10						200	270

ROCK CONVERSION FACTORS

Size	1 1/2"-0"	3"-0"	Jaw-Run
Tons/CY	1.35	1.35	1.35

(Conversion factors from Hardrock Quarry)

Maintenance Rock Volumes in CY			
Rock Size	1 1/2"-0"	3"-0"	Jaw-Run
Rock Totals CY	450	50	0
Rock Totals TONS	608	68	0

Total Rock Volumes For Projects			
Rock Size	1 1/2"-0"	3"-0"	Jaw-Run
Rock Totals CY	720	70	560
Rock Totals TONS	972	95	756

TIMBER CRUISE REPORT

Big Rock Candy Mountain (WO-341-2027-W01268-01) FY 2027

1. **Sale Area Location:** Portions of Section 28, T09S, R08W, W.M., Polk County, Oregon.

2. **Fund Distribution:**

a. **Fund** BOF 100%

3. **Sale Acreage by Area:**

Unit	Treatment	Gross Acres	Stream Buffers	No Harvest Slope	Existing Roads	Net Sale Acres	Acreage Comp. Method
1	Clearcut	78	7	1	5	65	GIS
Total		78	7	1	5	65	GIS

4. **Cruisers and Cruise Dates:** The sale was cruised by Jamie Gassner, Isabelle Doan, and Jeff Kuust in March of 2026.

5. **Cruise Method and Computation:** The sale consists of one clearcut unit. The sale is a clearcut that was cruised using variable radius plot sampling on a 3.8 x 3.8 chain grid using a 40 BAF prism factor. A total of 38 plots were taken in the sale with 19 grade plots and 19 count plots.

Measure plots were measured for DBH, height, form factor, grade, and defect. Data was entered into the Atterbury SuperACE cruise program to determine stand statistics and net board foot volume. Additional volume was removed to account for hidden defect and breakage.

Digital ortho photos, Lidar data, and GPS data were used to map the boundaries for the sale, and ArcPro GIS was used to determine gross and net acreage.

6. **Measurement Standards:** Tree heights were measured to the nearest foot, to a top diameter of 5 inches inside bark or to 40% of dob at 16' form point. Diameters at breast height (DBH) were measured to the nearest inch, and a form point of 16 feet was used to calculate form factor. Form factors were measured or estimated on every tree. Most trees were graded in 40-foot log segments unless breakage, defect, or length to top of grade cruise diameter warranted otherwise.

Timber Description: Timber in Unit 1 includes 65 acres of predominately 74-year-old Douglas-fir and 72-year-old Western hemlock with some scattered red alder. The average Douglas-fir to be removed is approximately 22 inches DBH, with an average total height of 120 feet. The average Western hemlock to be removed is 23 inches DBH with an average total height of 111 feet. The average red alder is approximately 13 inches DBH with an average height of 47 feet. The average volume per acre to be harvested is approximately 44.5 MBF/Acre (net).

7. **Statistical Analysis and Stand Summary:** (See attached "Statistics").

Unit	Target CV	Target SE	Actual CV	Actual SE
1	50%	9%	36.7%	6.0%

Note: Statistics shown are for conifer and hardwood trees combined. Percentages are for net board foot volume.

8. **Total Volume (MBF) by Species and Grade:** (See attached volume report "Species, Sort, Grade – Mbf by Species, Sort, Grade, Len, Dia Class").

Unit	Species	Gross Cruise Volume	Cruised D & B	Cruised D & B (MBF)	Hidden D & B	Hidden D & B (MBF)	Net Sale Volume
1	Douglas- fir	1925	2.3%	(44)	2%	(38)	1843
	Western Hemlock	1030	3.4%	(35)	2%	(20)	975
	Red Alder	73	-	-	2%	(1)	72
Totals		3028	2.6%	79	2%	59	2890

Unit	Species	Ave. DBH	Net Vol.	2-Saw	3-Saw	4-Saw	Camp Run
1	Douglas- fir	22	Grade %	61%	33%	6%	-
			1843	1124	608	111	-
	Western Hemlock	23	Grade %	63%	34%	3%	-
			975	614	332	29	-
	Red Alder	13	Grade %	-	-	-	100%
			72	-	-	-	72
Totals			2890	1738	940	140	72

Attachments: Cruise Design
 Cruise Maps
 Statistics
 Species, Sort Grade – Mbf by Species, Sort, Grade, Len, Dia Class
 Stand Summary Report
 Log Stock Table – MBF

Prepared by: Isabelle Doan

Date: 4/15/2026

Unit Forester: Cody Valencia

Date: _____

CRUISE DESIGN WEST OREGON DISTRICT

Sale Name: Big Rock Candy Mountain **Unit** 1

Harvest Type: CC

Approx. Cruise Acres: 65 **Estimated CV%** 50 /Acre **SE% Objective** 9 /Acre

Planned Sale Volume: 2.2 MMBF **Estimated Sale Unit Value/Acre:** \$ 13,800

- A. Cruise Goals:** (a) Grade minimum 100 conifer and hardwood trees:
 (b) Sample 38 cruise plots (19 grade: 19 count); (c) Other goals X Determine log grades for sale value; Determine take and leave tree species and sizes.

(Special cruising directions – leave trees etc.) Take plots as shown on map. Do not take plots in buffers.

DO NOT RECORD 12', 22' and 32' (for Hardwoods).

DO NOT RECORD 22' LENGTHS.

B. Cruise Design:

- 1. Plot Cruises:** BAF Full point
 Cruise Line Direction(s) 90, 270
 Cruise Line Spacing 3.8, 250 (chains) (feet)
 Cruise Plot Spacing 3.8, 250 (chains) (feet)
 Grade/Count Ratio 1:1

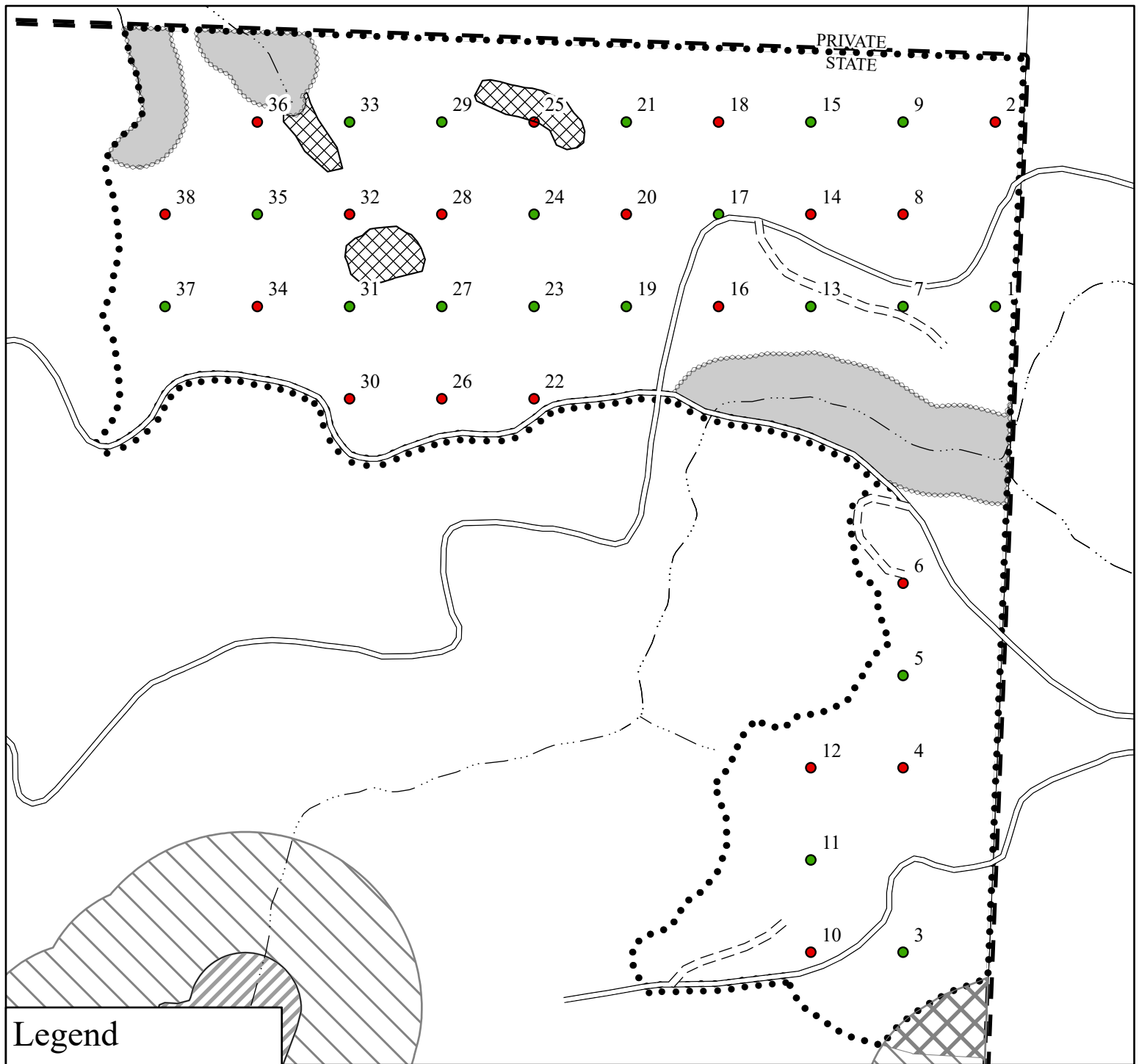
C. Tree Measurements:

- 1. Diameter:** Minimum DBH to cruise is 8" for conifers and 10" 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 inside bark for conifer is 5", 7" for hardwoods or 40 % of dob at 16' form point. Generally, use 6" outside bark for trees < 18" dbh and 40% of dob @ FP for trees > 18" 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 16'. Maximum segment length is 40'. One foot of trim is assumed for each merch. log segment. Do not use "double dash" (--) feature on the data recorder except for the top segment of the tree.

- 6. Species, Sort, and Grade Codes:** A. Species: Record as DF (Douglas-fir); WH (Western hemlock); SS (Sitka Spruce); RC (Western red cedar); NF (Noble fir); SF (Silver fir); RA (Red alder); BM (Bigleaf maple). For "leave trees" in partial cuts, or for marked "wildlife trees," add an "L" to the species code (such as DFL, 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; K = Camp Run; 0 = Cull ;
Hardwoods: K = Camprun; #1 Sawmill = 12"+ scaling diameter; #2 Sawmill = 10" and 11"; #3 Sawmill = 8" and 9"; #4 Sawmill = 6" and 7"
- 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: At each plot, tie red flagging above eye level near plot center and another red flagging around a sturdy wooden stake marking plot center. On red flagging, write the plot identification number.
- 9. Cruising Equipment:** Relaskop, Rangefinder, Logger's Tape (with dbh on back), Compass, Cruise Cards or Data Recorder, Cruise Design, Cruise Map, Red Flagging.
- 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: Jamie Gassner
Approved by: _____
Date: 01/08/2026



Legend

- Timber Sale Boundary
- Stream Buffer
- No Harvest Area
- Marbled Murrelet Management Area
- Occupied Habitat
- Non-Habitat Buffer
- Slope Buffer
- Surfaced Road
- Unsurfaced Road
- Ownership
- Type N Stream
- Count
- Measure

CRUISE MAP

OF TIMBER SALE CONTRACT NO. WO-341-2027-W01268-01
BIG ROCK CANDY MOUNTAIN
PORTIONS OF SECTION 28, T9S, R8W, W.M.,
POLK COUNTY, OREGON

BAF: 40
Line Spacing: 3.8 X 3.8 Chains
Measure Plots: 19
Count Plots: 19

Mark DBH with yellow paint.
Mark plot center with red flagging.

	GROSS UNIT	NET ACRES	ACRES
1	79	65	
TOTAL	79	65	

1:4,600

0 500 1,000 2,000 Feet



05/26/2026

Statistics of Sampled Population

State, County: OR LINCOLN

Lths: ACI-2023

Species: WEST ORE

Page: 1/1

Project: BIG ROCK CANDY MOUNTAIN

#Plots 38

Sort: WEST ORE

Date: 04/23/2026

Tract: CC

Trees: 197

Grade: WEST ORE

Cruised: 04/06/2026

Stand: 0001

Measured Trees: 91

Price: ACI-2018

Grown To:

Acres: 65.00

Count Trees: 106

Cost: ACI-2023

Edited: 04/20/2026

Sample data collection information

	Total Plots	Sample Trees	Trees /Plot	Trees /Acre	Est Total Trees	% Sample Trees
Basal Plots (B)	19	91	4.79	50.816	3,303	2.76
Basal DBH Count Plots (B)	19	106	5.58	65.026	4,226	2.51

Stand Summary - Averages

Species Group	St	Sample Tres	QM Dbh	Avg Total Ht	Trees /Acre	Basal Area /Acre	RD %	Mbf CV %	Mbf SE %	Tons /Acre	Net Ccf /Acre	Net Mbf /Acre	Total Net Ccf	Total Net Mbf
DOUG FIR		56	22.2	120	61.976	166.54	35.35	47.2	8.0	215	75.60	28.948	4,914	1,882
WHEMLOCK		31	23.4	111	31.999	95.28	19.71	54.0	10.0	131	41.03	15.305	2,667	995
R ALDER		4	13.2	47	21.867	20.86	5.74	78.0	31.8	12	4.37	1.121	284	73
		91	21.2	104	115.842	282.68	60.80	36.7	5.9	359	120.99	45.374	7,865	2,949

Confidence Level (CL) 95.44 out of 100.

Standard Deviation (SD) 1.00

Coefficient of Variation % (CV) and Stand Error of Estimate % (SE) are both computed from plot data

Measured Unit	SD	CL	CV%	SE%	per-Acre Range			Plots Required for SE%				Total Volume Range		
					Low	Avg	High	5%	10%	15%		Low	Avg	High
Net Mbf (1000 BdFt)	1.00	95.44	36.66	5.95	42.68	45.37	48.07	53	13	5		2,774	2,949	3,125
Net Ccf (100 CuFt)	1.00	95.44	33.98	5.51	114.32	120.99	127.66	46	11	5		7,431	7,865	8,298
Net Tons	1.00	95.44	34.43	5.59	338.72	358.76	378.80	47	11	5		22,017	23,319	24,622
Basal Area	1.00	95.44	33.54	5.44	267.30	282.68	298.06	44	11	4				
Trees	1.00	95.44	55.05	8.93	105.50	115.84	126.19	121	30	13				

	SD	CL	CV%	SE%	per-Tree Range			Sample Trees Required		
					Low	Avg	High			
Sample Trees BF	1.00	95.44	49.11	4.34	473	495	516	96	24	10
Sample Trees CF	1.00	95.44	40.20	3.55	124	128	133	64	16	7

Trees per Plot					Number Required		
Required Measured Trees per Plot - BdFt per Acre					1	1	2
Required Measured Trees per Plot - CuFt per Acre					1	1	1

Species, Sort, Grade - Mbf by Species, Sort, Grade, Len, Dia Class

State, County: OR LINCOLN

Lths and Dias: ACI-2023

Species: WEST ORE

Page: 1/1

Project: BIG ROCK CANDY MOUNTAIN

Plots: 38

Sort: WEST ORE

Date: 04/23/2026

Tract: CC

Trees: 197

Grade: WEST ORE

Cruised: 04/06/2026

Stand: 0001

Meas Trees: 91

Price: ACI-2018

Grown To:

Acres: 65.00

Count Trees: 106

Cost: ACI-2023

Edited: 04/20/2026

Log Len Class Total Net Ccf Total Tons Total Gross Mbf % Def Total Net Mbf % Tot Mbf											Net Mbf Percent (%) by Log Scaling Diameter Classes								Avg Log Len Avg Sca Dia Avg BdFt / Log Logs /Acre CuFt /Mbf Tons /Mbf CuFt / Len Ft																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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Stand Summary Report

State, County: OR LINCOLN

Lths & Dias: ACI-2023

Species WEST ORE

Page: 1/1

Project: BIG ROCK CANDY
MOUNTAIN

Plots: 38

Sort: WEST ORE

Date: 04/23/2026

Tract: CC

Trees: 197

Grade: WEST ORE

Cruised: 04/06/2026

Stand: 0001

Measured Trees: 91

Price: ACI-2018

Grown To:

Acres: 65.00

Count Trees: 106

Cost: ACI-2023

Edited: 04/20/2026

Spp	St	Dbh	Smpl Trees	Avg Age	Avg FF	Avg Total Ht	Trees /Ac	BA /Ac	Logs /Ac	Ht/D Inches	Net Per Log		Net Per Acre			BdFt Def %	Total Net		
											CuFt	BdFt	Tons	CuFt	BdFt		Tons	Ccf	Mbf
DF		14	1	50	87	100	1.301	1.39	2.602	85.5	19	70	1	49	182	7.1	92	32	12
DF		15	1	50	81	83	1.307	1.60	2.615	66.2	20	45	1	51	118	22.2	94	33	8
DF		16	1	50	83	106	1.094	1.53	2.189	79.6	30	95	2	65	208	0.0	120	42	14
DF		17	1	50	81	99	1.018	1.60	2.036	69.8	29	85	2	59	173	5.9	109	38	11
DF		18	1	50	83	77	0.865	1.53	1.729	51.5	29	75	1	49	130	13.3	91	32	8
DF		19	3	50	85	113	2.205	4.34	4.410	71.2	39	130	5	172	574	2.6	318	112	37
DF		20	4	50	87	118	2.558	5.58	6.336	70.8	39	138	7	248	874	2.9	460	161	57
DF		21	4	50	86	116	2.380	5.72	5.277	66.5	47	167	7	248	880	2.1	459	161	57
DF		22	5	50	85	121	34.465	92.49	88.761	65.3	47	181	120	4,209	16,086	2.5	7,797	2,736	1,046
DF		23	9	50	84	123	4.626	13.35	12.827	64.3	46	175	17	596	2,250	1.3	1,104	388	146
DF		24	5	50	84	139	2.400	7.54	7.199	69.7	52	206	11	378	1,483	1.3	700	246	96
DF		25	5	50	85	137	2.121	7.23	6.363	65.7	56	225	10	357	1,432	1.5	662	232	93
DF		26	7	50	87	135	2.657	9.80	7.235	62.1	64	263	13	461	1,903	1.5	854	300	124
DF		27	4	50	85	128	1.461	5.81	3.614	56.7	71	291	7	257	1,051	0.7	476	167	68
DF		28	2	50	86	135	0.659	2.82	1.635	57.9	84	363	4	138	594	2.3	256	90	39
DF		29	1	50	87	150	0.303	1.39	0.910	62.2	81	380	2	74	346	0.0	137	48	22
DF		30	1	50	89	136	0.271	1.33	0.812	54.3	83	393	2	68	319	0.0	125	44	21
DF		31	1	50	84	157	0.285	1.49	0.854	60.8	95	407	2	81	347	4.9	150	53	23
DF			56	50	85	120	61.976	166.54	157.403	66.0	48	184	215	7,560	28,948	2.3	14,004	4,914	1,882
WH		19	3	50	87	113	2.094	4.12	4.189	71.4	43	155	6	182	648	1.0	378	118	42
WH		20	3	50	86	115	1.973	4.30	5.251	69.2	38	134	6	199	702	0.0	414	129	46
WH		21	1	50	86	115	0.592	1.42	1.183	65.7	53	175	2	63	207	8.6	130	41	13
WH		22	5	50	86	102	2.675	7.06	5.864	55.6	51	187	10	299	1,097	1.9	622	195	71
WH		23	4	50	86	112	19.061	56.58	44.448	57.4	55	208	79	2,460	9,234	3.5	5,116	1,599	600
WH		24	2	50	87	120	0.877	2.76	2.632	60.1	50	201	4	131	529	2.3	273	85	34
WH		25	3	50	85	96	1.296	4.42	3.050	46.0	57	203	6	173	620	0.0	360	113	40
WH		26	2	50	88	105	0.740	2.73	1.480	48.4	80	323	4	119	478	0.0	247	77	31
WH		27	4	50	83	115	1.544	6.14	3.464	51.0	67	234	7	231	810	8.8	481	150	53
WH		28	1	50	86	118	0.333	1.42	0.666	50.4	96	370	2	64	246	8.1	133	42	16
WH		30	1	50	83	105	0.311	1.53	0.623	41.8	102	330	2	63	205	13.6	131	41	13
WH		31	1	50	84	112	0.285	1.49	0.569	43.5	77	315	1	44	179	0.0	91	28	12
WH		33	1	50	90	138	0.219	1.30	0.656	50.4	115	530	2	75	348	11.9	157	49	23
WH			31	50	86	111	31.999	95.28	74.076	57.7	55	207	131	4,103	15,305	3.4	8,534	2,667	995
RA		11	1	50	87	43	2.107	1.39	2.107	46.8	12	30	1	25	63	0.0	45	16	4
RA		13	2	50	87	47	19.053	18.08	19.053	42.9	20	51	10	376	973	0.0	672	244	63
RA		19	1	50	87	59	0.706	1.39	0.706	37.1	50	120	1	35	85	0.0	63	23	6
RA			4	50	87	47	21.867	20.86	21.867	43.0	20	51	12	437	1,121	0.0	780	284	73
Stands/Project:			91	50	86	104	115.842	282.68	253.346	59.4	48	179	359	12,099	45,374	2.6	23,319	7,865	2,949

Log Stock - Mbf by Species, Sort, Grade, Len, Dia Class

State, County: OR LINCOLN

Lths And Dias ACI-2023

Species: WEST ORE

Page: 1/1

Project: BIG ROCK CANDY MOUNTAIN

Plots: 38

Sort: WEST ORE

Date: 04/23/2026

Tract: CC

Trees: 197

Grade: WEST ORE

Cruised: 04/06/2026

Stand: 0001

Measured Trees: 91

Price: ACI-2018

Grown To:

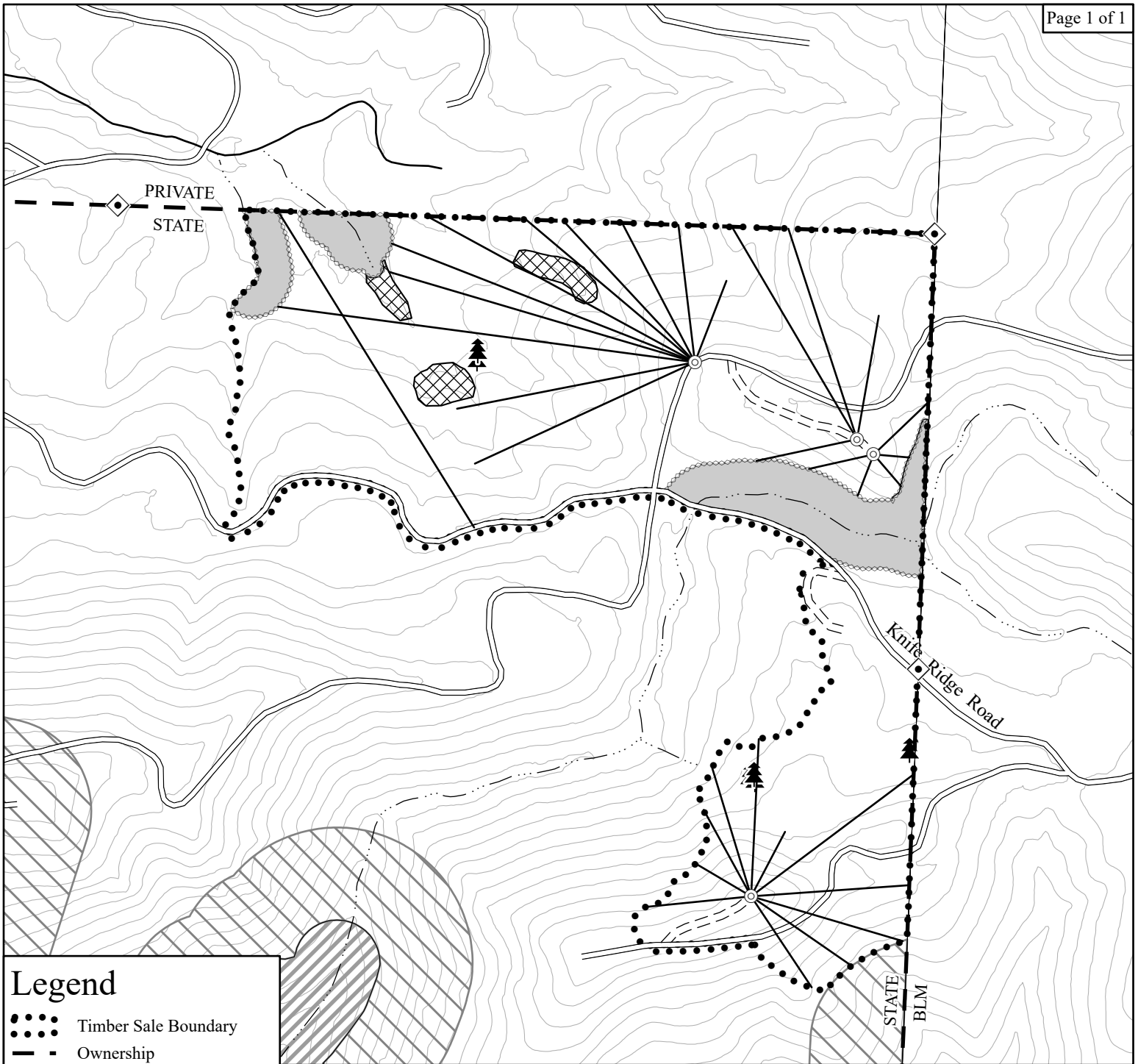
Acres: 65.00

Count Trees: 106

Cost: ACI-2023

Edited: 04/20/2026

Species	Stat us	Srt	Grd	Log Len Class	Gross Mbf	% Def	Net Mbf	% Spp	BdFt Per Acre	Net Mbf by Scaling Diameter in Inches							
										2-4	5-7	8-11	12-17	18-23	24-29	30-39	40-99
DF		DO	2M	40+	1,178	2.2	1,152	61.2	17,718				830	321			
DF		DO	3M	16-21	7	14.3	6	0.3	96				6				
DF		DO	3M	32-35	5	.0	5	0.2	70		5						
DF		DO	3M	40+	632	2.3	617	32.8	9,493		36	330	251				
DF		DO	4M	12-15	10	16.6	9	0.5	134		9						
DF		DO	4M	16-21	31	.0	31	1.6	474		27	4					
DF		DO	4M	24-27	15	.0	15	0.8	225		7	8					
DF		DO	4M	28-31	13	.0	13	0.7	208		8	5					
DF		DO	4M	32-35	7	.0	7	0.4	115		4	3					
DF		DO	4M	36-39	11	.0	11	0.6	167		8	3					
DF		DO	4M	40+	16	.0	16	0.9	249		6	10					
DF		Total			1,925	2.3	1,882	63.8	28,948		109	370	1,081	321			
WH		DO	2M	40+	650	3.7	626	62.9	9,625				480	146			
WH		DO	3M	32-35	7	.0	7	0.7	113		7						
WH		DO	3M	36-39	4	.0	4	0.4	62			4					
WH		DO	3M	40+	338	3.2	328	32.9	5,039		17	143	122	16	30		
WH		DO	4M	12-15	7	.0	7	0.7	114		5	2					
WH		DO	4M	16-21	11	.0	11	1.1	165		9	2					
WH		DO	4M	24-27	3	.0	3	0.3	47		3						
WH		DO	4M	28-31	3	.0	3	0.3	47			3					
WH		DO	4M	40+	6	.0	6	0.6	94		6						
WH		Total			1,030	3.4	995	33.7	15,305		47	154	602	161	30		
RA		DO	CR	28-31	34	.0	34	46.4	520		34						
RA		DO	CR	32-35	18	.0	18	25.2	283		18						
RA		DO	CR	40+	21	.0	21	28.4	318			21					
RA		Total			73		73	2.5	1,121		52	21					
Stand(s)/Project Totals					3,028	2.6	2,949	100.0	45,374								
Percent Measured Tree Net Mbf =									100.0		209	545	1,683	483	30		



Legend

- Timber Sale Boundary
- Ownership
- Stream Buffer
- Slope Buffer
- Marbled Murrelet Management Area
- Occupied Habitat
- Non-Habitat Buffer
- Surfaced Road
- Unsurfaced Road
- Type F Stream
- Type N Stream
- Cable Corridor
- Landing
- Upland Wildlife Tree
- Land Survey Monument

LOGGING PLAN

OF TIMBER SALE CONTRACT NO. WO-341-2027-W01268-01
BIG ROCK CANDY MOUNTAIN
PORTIONS OF SECTION 28, T09S, R08W, W.M.,
POLK COUNTY, OREGON

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	CABLE	TRACTOR
UNIT	ACRES	ACRES
1	41	24
TOTAL	41	24

1:6,000

