



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal  
Powerline Salvage  
Sale WO-343-2022-W00918-01

District: West Oregon

Date: September 07, 2021

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**Cost Summary**

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$45,189.83	\$0.00	\$45,189.83
		Project Work:	\$0.00
		Advertised Value:	\$45,189.83



# Timber Sale Appraisal Powerline Salvage Sale WO-343-2022-W00918-01

**District: West Oregon**

**Date: September 07, 2021**

## Timber Description

**Location:** Portions of Sections 7, 16 and 21, T11S, R9W, W.M., Lincoln County, Oregon.

**Stand Stocking:** 40%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	12	0	90

Volume by Grade	3S & 4S 6"-11"	Total
Douglas - Fir	197	197
<b>Total</b>	197	197

**Comments:** Pond Values Used: Local Pond Values, July, 2021

Tonnage Calculation = Total MBF \* Ton/MBF  
1,970 Tons = 197 MBF \* 10 Tons/MBF

Conifer Stumpage Price = Pond Value minus Logging Cost:  
\$229.39/MBF = \$760/MBF - \$530.61/MBF  
\$22.94/Ton = \$229.39/MBF / 10 Ton/MBF  
Hardwood Stumpage Price = Pond Value minus Logging Cost:  
\$155.39/MBF = \$686/MBF - \$530.61/MBF  
\$15.54/Ton = \$155.39/MBF / 10 Ton/MBF

Other Costs (with Profit & Risk to be added):  
Operational Cost Reduction: \$12,000  
TOTAL Other Costs (with Profit & Risk to be added) = \$12,000

Other Costs (No Profit & Risk added):  
Equipment Cleaning (Invasive Species): \$1000  
Slash piling/firewood sorting: 6 hours @ \$150/hr = \$900  
Unit 4 Equipment move-in cost (x2): 8 hours @ \$180/hr = \$1,440  
TOTAL Other Costs (No Profit & Risk added) = \$3,340



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**Logging Conditions**

**Combination#:** 1                      Douglas - Fir                      55.37%

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

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

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

**loads / day:** 6                      **bd. ft / load:** 4500

**cost / mbf:** \$273.35

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

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**Combination#:** 2                      Douglas - Fir                      44.63%

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

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

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

**loads / day:** 7                      **bd. ft / load:** 4500

**cost / mbf:** \$169.65

**machines:** Forwarder  
Harvester

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### Logging Costs

Operating Seasons: 1.00	Profit Risk: 20%
Project Costs: \$0.00	Other Costs (P/R): \$12,000.00
Slash Disposal: \$0.00	Other Costs: \$3,340.00

Miles of Road

Road Maintenance: \$0.00

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



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## Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas - Fir									
\$227.07	\$0.00	\$22.28	\$116.12	\$60.91	\$85.28	\$0.00	\$2.00	\$16.95	\$530.61

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$760.00	\$229.39	\$0.00



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**Summary**

**Amortized**

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

**Unamortized**

Specie	MBF	Value	Total
Douglas - Fir	197	\$229.39	\$45,189.83

**Gross Timber Sale Value**

**Recovery:** \$45,189.83

**Prepared By:** Aaron McEwen

**Phone:** 541-929-9168

Powerline Salvage (WO-343-W00918-01)  
FY 2022

**TIMBER CRUISE REPORT**

1. **Sale Area Location:** Portions of Sections 7, 16 and 21, T11S, R9W, W.M., Lincoln County, Oregon.
2. **Fund Distribution:**
  - a. **Fund** BOF 46%, CSL 54%
  - b. **Tax Code**
3. **Sale Acreage by Area:**

Unit	Treatment	Gross Acres	Stream Buffers	Existing Roads	Net Sale Acres	Acreage Comp. Method
1	Patch Cut Salvage	7	<1	<1	7	Ortho photo, GIS, GPS
2	Roadside Salvage	12	0	2	10	Ortho photo, GIS, GPS
3	Roadside Salvage	13	0	1	12	Ortho photo, GIS, GPS
4	Patch Cut Salvage	4	0	<1	4	Ortho photo, GIS, GPS
Total		36	<1	3	33	

4. **Cruisers and Cruise Dates:** Units 1, 2 and 3 were visually assessed for estimates of salvageable volume by Aaron McEwen in March of 2021. Stand volumes were assessed by using stand data from its recent first entry commercial thinning. Unit 4 was cruised by Zane Sandborg in April of 2021.
5. **Cruise Method and Computation:** For Units 1, 2 and 3, cruise volumes and grades were used from the previous thinning timber sale of the stand to accurately estimate residual volume before the wind storm damage. Volume for Unit 1 was calculated by using the residual volume from the previous thinning timber sale. For Units 2 & 3 (roadside salvage), estimates of 15% of windthrow to the residual stand were used to calculate the salvageable volume. Volume for Unit 4 was calculated by using 4 measure plots in the adjacent identical stand.

A hidden defect and breakage of 5% was applied to the resulting volume.

GPS, LiDar, and ArcMap were used to map the boundaries for the sale, and ArcMap was used to determine gross and net acreage.
6. **Measurement Standards:** For Units 1, 2 and 3, in the original cruise, tree heights were measured to the nearest foot to a total height. Diameters were measured to the nearest inch, and a standard form factor of 86 was used. Most trees were graded in 40 foot log segments unless breakage, defect, or length to top of grade cruise diameter warranted otherwise. In Unit 4, tree heights were measured to the nearest foot, to a top diameter of 6 inches inside bark. Diameters were measured to the nearest inch, form factors were measured or estimated on every tree and grades were determined based on previous similar timber sales in the area.
7. **Timber Description:** Timber in the salvage units consist of 34 year-old planted Douglas-fir, and minor amounts of red alder and big-leaf maple. The average volume per acre to be harvested (net) is approximately 15 MBF/acre in Unit 1, 2 MBF/acre in Units 2 & 3 and 13 MBF/acre in Unit 4.

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

	Species	Gross Cruise Volume	Hidden D&B (5%)	Net Sale Volume
<b>Unit 1</b>	Douglas-fir	111	(6)	105
<b>Unit 2</b>	Douglas-fir	21	(1)	20
<b>Unit 3</b>	Douglas-fir	25	(1)	24
<b>Unit 4</b>	Douglas-fir	51	(3)	48
<b>Total</b>		208	(11)	197

	Species	DBH	Net Vol.	2-Saw	3-Saw	4-Saw
<b>All Units</b>		Grade Percentages		-	83%	17%
	Douglas-fir	12	197	-	164	33

Prepared by: Aaron McEwen

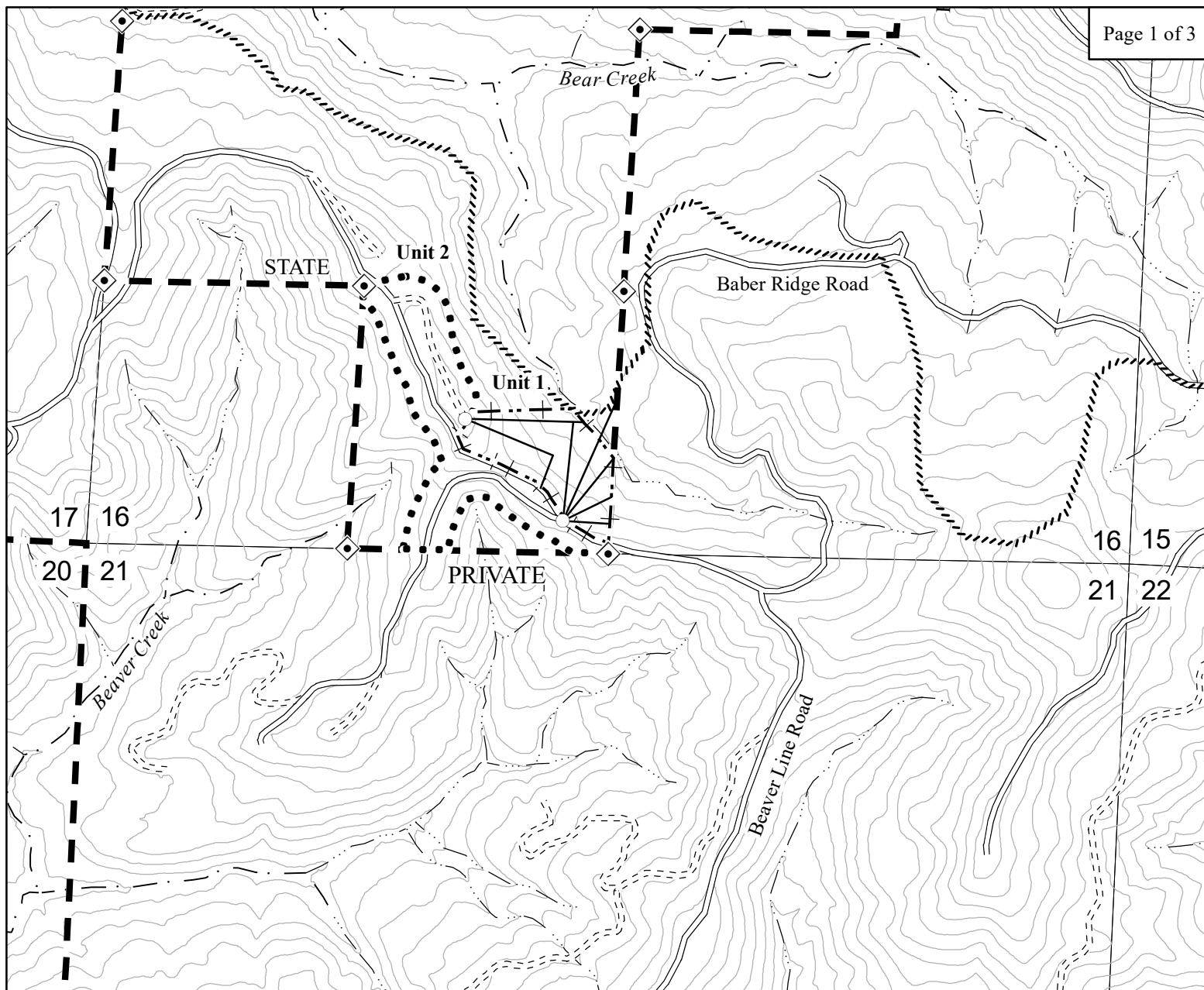
Date: 9/07/2021

Unit Forester: \_\_\_\_\_

Evelyn Hukari

Date: \_\_\_\_\_





## Legend

### Boundaries

- + · · Posted Patch Cut Salvage Boundary
- · · · · Unposted Roadside Salvage Boundary
- — — State Forest Property Boundary

### Roads

- ===== Surfaced Road
- ===== Unsurfaced Road
- //////// Motorized Trail

### Streams

- — · Type F Stream
- · · · · Type N Stream
- — ● Gate
- Cable Corridor
- Landing
- ◆ Land Survey Monument

## LOGGING PLAN

OF TIMBER SALE CONTRACT NO.  
WO-343-2022-W00918-01  
POWERLINE SALVAGE  
PORTIONS OF SECTIONS 7, 16 & 21,  
T11S, R9W, W.M.,  
LINCOLN COUNTY, OREGON.

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

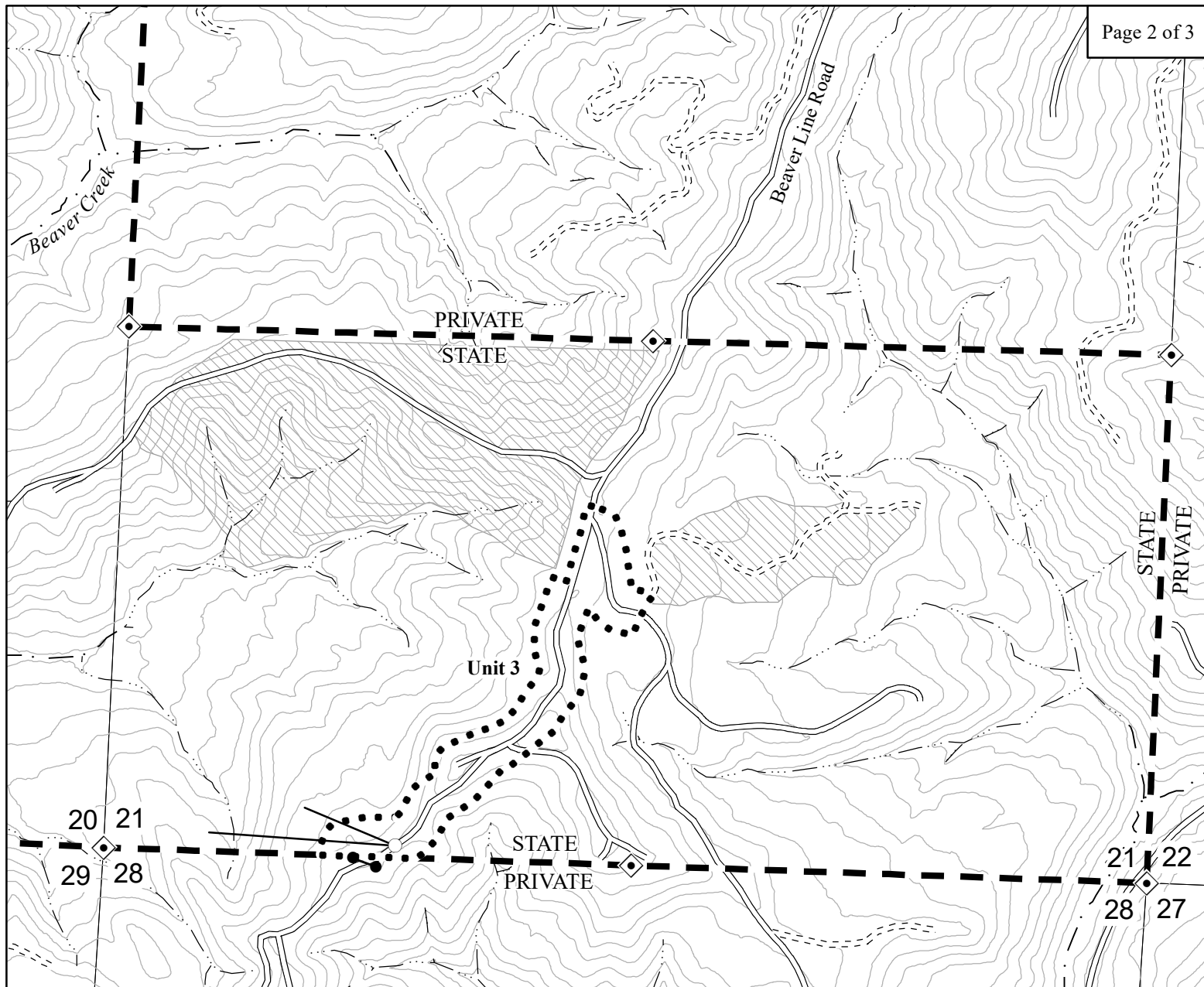
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UNIT	Tractor Acres	Cable Acres
1 (Patch Cut Salvage)	0	7
2 (Roadside Salvage)	10	0
3 (Roadside Salvage)	10	2
4 (Patch Cut Salvage)	4	0
<b>TOTAL</b>	<b>24</b>	<b>9</b>

Except as shown with Cable corridors, Roadside Salvage Units are assumed tractor yarding only.



Date: 09/16/2021



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### Legend

#### Boundaries

- • • • • Unposted Roadside Salvage Boundary
- — — — State Forest Property Boundary

#### Roads

- ===== Surfaced Road
- ===== Unsurfaced Road

#### Streams

- — · Type F Stream
- Type N Stream
- ▨▨▨▨ Reforestation Areas

- — ● Gate
- Cable Corridor
- Landing
- ◆ Land Survey Monument

Scale

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1,000

0

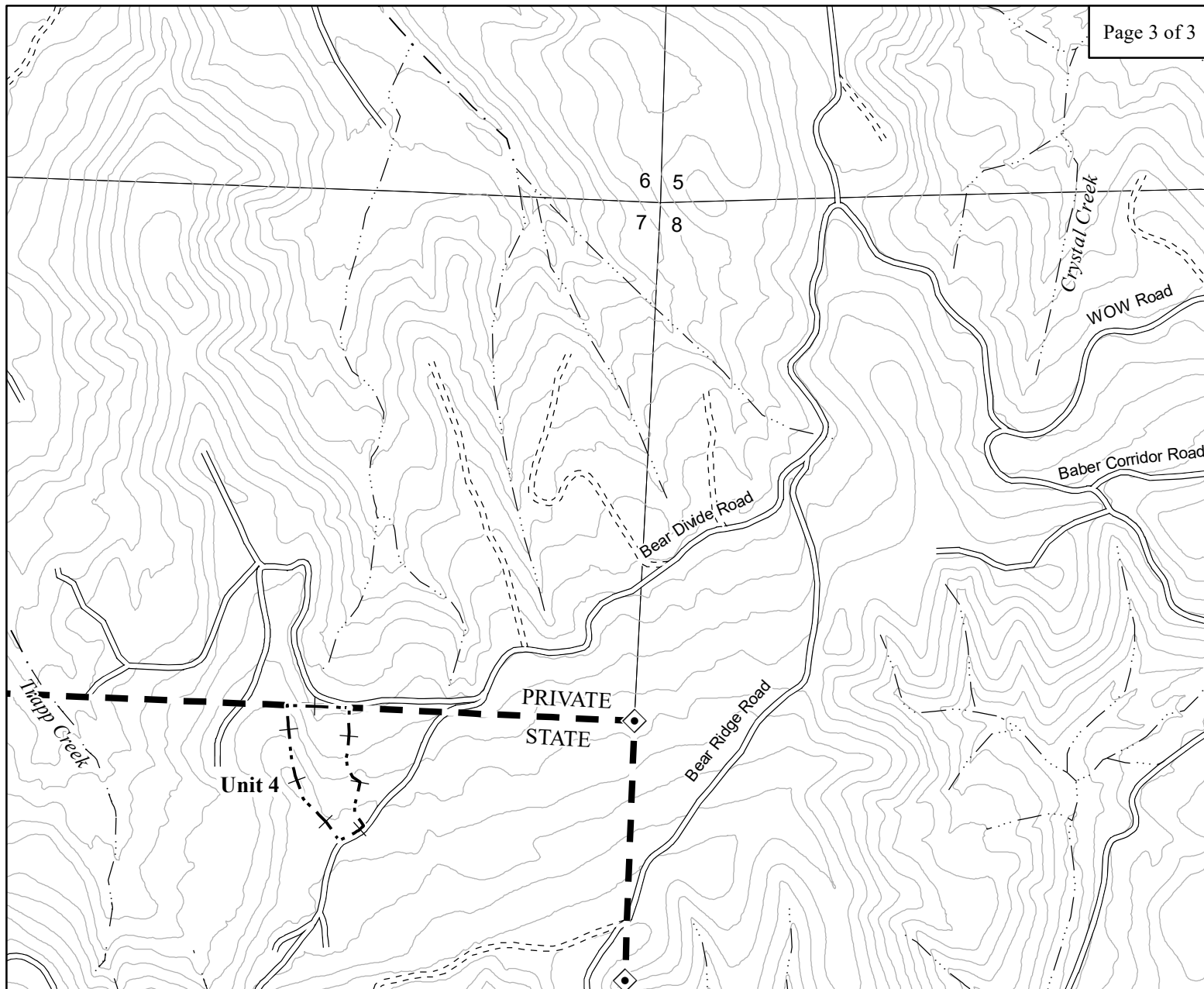
1,000

2,000

Date: 09/16/2021

Feet





## LOGGING PLAN

### Legend

#### Boundaries

· + · Posted Patch Cut Salvage Boundary

— — State Forest Property Boundary

#### Roads

==== Surfaced Road

==== Unsurfaced Road

#### Streams

· — · Type F Stream

····· Type N Stream

◆ Land Survey Monument

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1,000

0

1,000

2,000

Date: 09/16/2021

Feet

