



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal  
Power Ham  
Sale KL-341-2024-W01005-01

District: Klamath/Lake

Date: June 20, 2023

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**Cost Summary**

	<b>Conifer</b>	<b>Hardwood</b>	<b>Total</b>
<b>Gross Timber Sale Value</b>	\$517,474.99	\$0.00	\$517,474.99
		<b>Project Work:</b>	(\$32,155.34)
		<b>Advertised Value:</b>	\$485,319.65



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**District: Klamath/Lake**

**Date: June 20, 2023**

**Timber Description**

**Location:**

**Stand Stocking: 60%**

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	20	0	98
Ponderosa Pine	20	0	100

Volume by Grade	2S	3S & 4S 6"-11"	3S 12"+	6" - 11"	12"-15"	16"+	Total
Douglas - Fir	700	562	175	0	0	0	1,437
Ponderosa Pine	0	0	0	433	305	325	1,063
<b>Total</b>	700	562	175	433	305	325	2,500

**Comments:** Pond Values Used: Local Pond Values, June 2023.

Log Markets: Klamath Falls and Medford.

Other Costs (no Profit & Risk): Licence Agreement with BLM: \$4,230.77

Other Costs (with Profit & Risk to be added): None

**ROAD MAINTENANCE**

Move-in: \$500.00

General Road Maintenance: 12 miles x \$211.00 per mile x 1 bladings = \$2,532.00

Total Road Maintenance: \$3,032.00, \$1.21 per Mbf



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District: Klamath/Lake

Date: June 20, 2023

## Logging Conditions

<b>Combination#: 1</b>	Douglas - Fir	72.00%
	Ponderosa Pine	56.00%
<b>Logging System:</b>	Wheel Skidder	<b>Process:</b> Stroke Delimber
<b>yarding distance:</b>	Medium (800 ft)	<b>downhill yarding:</b> Yes
<b>tree size:</b>	Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF	
<b>loads / day:</b>	15	<b>bd. ft / load:</b> 4000
<b>cost / mbf:</b>	\$125.00	
<b>machines:</b>	Stroke Delimber (B)	

<b>Combination#: 2</b>	Douglas - Fir	28.00%
	Ponderosa Pine	44.00%
<b>Logging System:</b>	Track Skidder	<b>Process:</b> Manual Falling/Delimiting
<b>yarding distance:</b>	Medium (800 ft)	<b>downhill yarding:</b> Yes
<b>tree size:</b>	Mature / Partial Cut (900 Bft/tree), 3-5 logs/MBF	
<b>loads / day:</b>	12	<b>bd. ft / load:</b> 4500
<b>cost / mbf:</b>	\$138.89	
<b>machines:</b>	Log Loader (B) Track Skidder	



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### Logging Costs

<b>Operating Seasons:</b> 1.00	<b>Profit Risk:</b> 12%
<b>Project Costs:</b> \$32,155.34	<b>Other Costs (P/R):</b> \$0.00
<b>Slash Disposal:</b> \$0.00	<b>Other Costs:</b> \$4,230.77

**Miles of Road**

**Road Maintenance:** \$1.11

Dirt	Rock (Contractor)	Rock (State)	Paved
0.0	0.0	0.0	0.0

**Hauling Costs**

Species	\$ / MBF	Trips/Day	MBF / Load
Douglas - Fir	\$0.00	3.0	4.5
Ponderosa Pine	\$0.00	3.0	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
<b>Douglas - Fir</b>									
\$128.89	\$1.13	\$1.76	\$94.44	\$0.00	\$27.15	\$0.00	\$2.00	\$1.69	\$257.06
<b>Ponderosa Pine</b>									
\$131.11	\$1.11	\$1.76	\$92.59	\$0.00	\$27.19	\$0.00	\$2.00	\$1.69	\$257.45

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$570.89	\$313.83	\$0.00
Ponderosa Pine	\$0.00	\$320.01	\$62.56	\$0.00



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### Summary

**Amortized**

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

**Unamortized**

Specie	MBF	Value	Total
Douglas - Fir	1,437	\$313.83	\$450,973.71
Ponderosa Pine	1,063	\$62.56	\$66,501.28

**Gross Timber Sale Value**

Recovery: \$517,474.99

Prepared By: Diego Montoya

Phone: 541-883-5683

# Power Ham

## KL-341-2024-W01005-01

### Cruise Report



**SALE NAME:** Power Ham

**LEGAL DESCRIPTION:**

Township 41 South, Range 7 East, Portion of Section(s) 1, 2. Township 40 South, Range 7 East, Portions of Section(s) 8 Township 39 South, Range 7 East, Portion of Section(s) 32, Willamette Meridian, Klamath County, Oregon.

**ACREAGE:**

The timber sale is 628 acres.

Acreage was determined using data collected using GPS and compiled using ArcMap.

**TREATMENT:**

The timber sale is a selection cut based on prescription by description and is a purchaser select cut with requirements listed in contract Section 2320, "Thinning Specifications".

**CRUISE METHOD:**

Merchantable volume on the timber sale was sampled using a variable plot cruise with a ratio of one measure plot for every count plot. Submerchantable material (5.0" to 9.0" dbh) was measured with a 1/50 acre fixed plot.

**BASAL AREA FACTOR:**

Stand	BAF	Type Acreage
Area	10 BAF	628 acres

**FIXED PLOT:**

Stand	Radius	Type Acreage
Area	16.6	628

**PLOT DESIGNATION:**

Plot centers were established at every plot with pin flags and candy stripe blue and white flagging attached to the nearest available tree branch listing the plot number.

**SAMPLE SIZE:**

38 plots

**Measurements and Grading:**

- DBH and Height were measured on all “in” trees for measure plots.
- Submerch volume and sawlog volume cruised.
- See attached species and grade tables for minimum requirements.
- All trees were graded using the segment system.

**TREE HEIGHT:**

All trees were measured to a fixed diameter outside bark. This height is usually taken as high up the bole as possible, where the cruiser can clearly see the bole, and the taper remains constant (usually 6 or 8 inches). The log segments are broken out and graded accordingly.

**MINIMUM D.B.H:**

10” dbh for sawlog volume. 5.0” dbh for submerchantable material.

**DIAMETER STANDARDS:**

1” diameter class

**BTR:**

Standard ratios were used. See attached species tables.



### **FORM FACTOR:**

Form factor was measured or estimated at 16' for each tree. Each tree was assigned its own form factor.

### **FORM POINT:**

All trees were sighted at D.B.H.

### **VOLUME COMPUTATION:**

All cruise data was compiled using SuperACE.

### **FINAL CRUISE RESULTS:**

<b>STAND</b>	<b>CV%</b>	<b>SE%</b>	<b>Acres</b>
Combined Units	75.0	12.2	628

Measurements and Grading:

- Ratio of a count plot for every measure plot.
- DBH and Height were measured on all "in" trees for measure plots.
- Pulp volume and sawlog volume cruised.
- See attached species and grade tables for minimum requirements.
- All trees were graded using the segment system.

### **TIMBER DESCRIPTION**

#### **SAWLOG VOLUME:**

All material graded camprun. See grade table for minimum standards.

## **TOTAL SAWLOG VOLUME**

Species	Ave. DBH	Acres	Gross Vol/Acre (bf)	Net Vol/Acre (br)	Net Sale Vol (Mbf)
Ponderosa Pine	20.3	628	1,693	1,693	1,063
Doug - Fir	19.8	628	2,293	2,288	1,437
	Total		3,986	3,981	2,500

**TOTAL NET SAWLOG VOLUME: 2,500 MBF**

### **GREEN PULP VOLUME:**

#### **Submerchantable Material**

This volume was obtained from the fixed plot cruise (5.0" – 9.0" DBH) combined with all material graded as green pulp during the variable plot cruise. All material was graded green pulp, see grade table for minimum standards.

## **VARIABLE PLOT CRUISE**

Species	Acres	Vol/Acre (bf)	Sale Vol (Mbf)
Conifer	685	346	237

**TOTAL GREEN PULP VOLUME: 237 MBF**

Power Ham  
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*Other Costs*

*Road Maintenance*

Move-in cost (grader):	\$500.00
Number of Miles to be Bladed:	12.0
Number of Bladings:	1
Total Miles	12.0
Miles / Hour for equipment:	0.5
Cost / Hour (grader with operator):	\$105.50
Total Grading Hours:	24
Grading Cost:	\$2,532.00
	<b><u>\$3,032.00</u></b>
<b>Total Cost:</b>	\$3,032.00
Cost / Mbf:	\$1.21

# Power Ham

## KL-341-2024-W01005-01

### *Project Costs*

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PP	1,063 Mbf	42.5%	Average Load	4.5 Mbf	No. of Loads	236
DF	1,437 Mbf	57.5%	Average Load	4.2 Mbf	No. of Loads	342
<b>Total:</b>	<b>2,500 Mbf</b>				<b>Total Loads</b>	<b>578</b>

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#### *Project #1 Landing Piling and Clean Up*

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Number of Landings: 23

Shovel Time:	1 Hour per Landing	Cost per Hour:	\$125.00	Total Cost	\$2,875.00
Cat Time:	1 Hour per Landing	Cost per Hour:	\$132.50	Total Cost	<u>\$3,047.50</u>
				Total Cost	\$5,922.50

<b>Total</b>	<b><u>\$5,922.50</u></b>
per MBF	<u>\$2.37</u>

# Power Ham

## KL-341-2024-W01005-01

### *Project Costs*

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*Project #2 Road Improvement*

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Move in Cost Dozer: \$500.00

**Improvement**

	<b>Points</b>	<b>Distance (ft)</b>	<b>Feet/Hour</b>	<b>Hours</b>	<b>Cost/Hour</b>	<b>Cost</b>
Open/Clear/Shape	A to B	3671	1000	3.7	\$132.50	\$486.41
Open/Clear/Shape	C to D	2909	1000	2.9	\$132.50	\$385.44
Open/Clear/Shape	E to F	3895	1000	3.9	\$132.50	\$516.09
Open/Clear/Shape	G to H	628	1000	0.6	\$132.50	\$83.21
Open/Clear/Shape	I to O	8137	1000	8.1	\$132.50	\$1,078.15
Open/Clear/Shape	K to L	1148	1000	1.1	\$132.50	\$152.11
Open/Clear/Shape	J to M	2934	1000	2.9	\$132.50	\$388.76
Open/Clear/Shape	S to N	634	1000	0.6	\$132.50	\$84.01
Open/Clear/Shape	P to Q	1282	1000	1.3	\$132.50	\$169.87
Open/Clear/Shape	J to R	2991	1000	3.0	\$132.50	\$396.31
	<b>Total</b>	<b>28229</b>			<b>Total</b>	<b>\$3,740.34</b>

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*Project #2 Summary*

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Move in Costs	\$500.00
Improvement Costs	\$3,740.34
<b>Project #3 Total</b>	<b>\$4,240.34</b>
per MBF	\$1.70

# Power Ham

## KL-341-2024-W01005-01

### *Project Costs*

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#### *Project #3 Road Closures*

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##### *Road Closures*

5	Number of Closure Points - Point A, C, E, I, and M
<u>\$132.50</u>	Cost per Hour (Cat)
<u><b>\$662.50</b></u>	<b>Total</b>
\$0.27	per Mbf

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#### *Project #4 Felling, Skidding, and Piling of Submerchantable Trees*

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Total Sub-Sawlog Volume: 237 MBF

Fell and Skid/MBF:	\$65.00
Sort/MBF:	<u>\$25.00</u>
<b>Total</b>	<u><b>\$21,330.00</b></u>
per MBF	\$8.53

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#### *All Project Costs Summary*

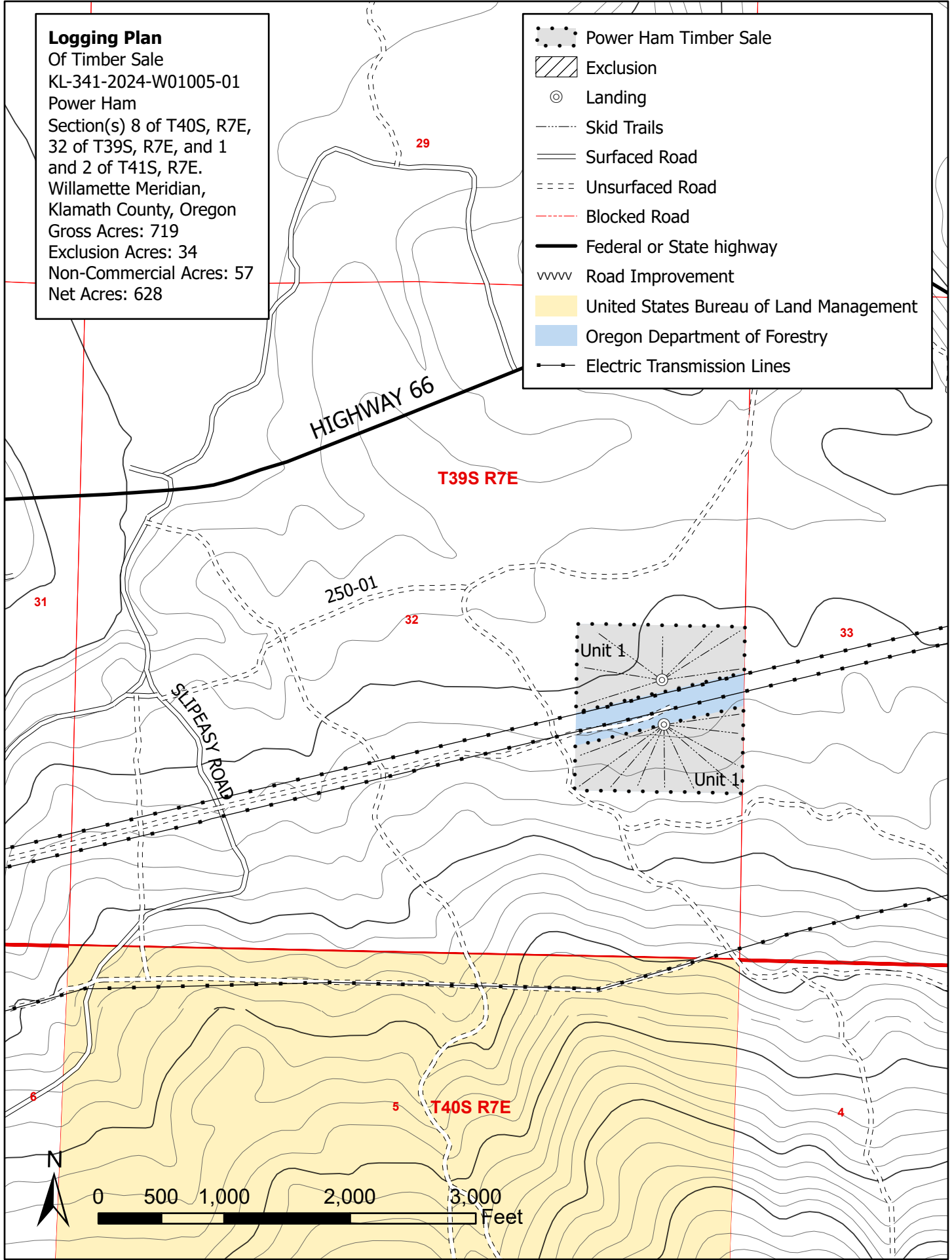
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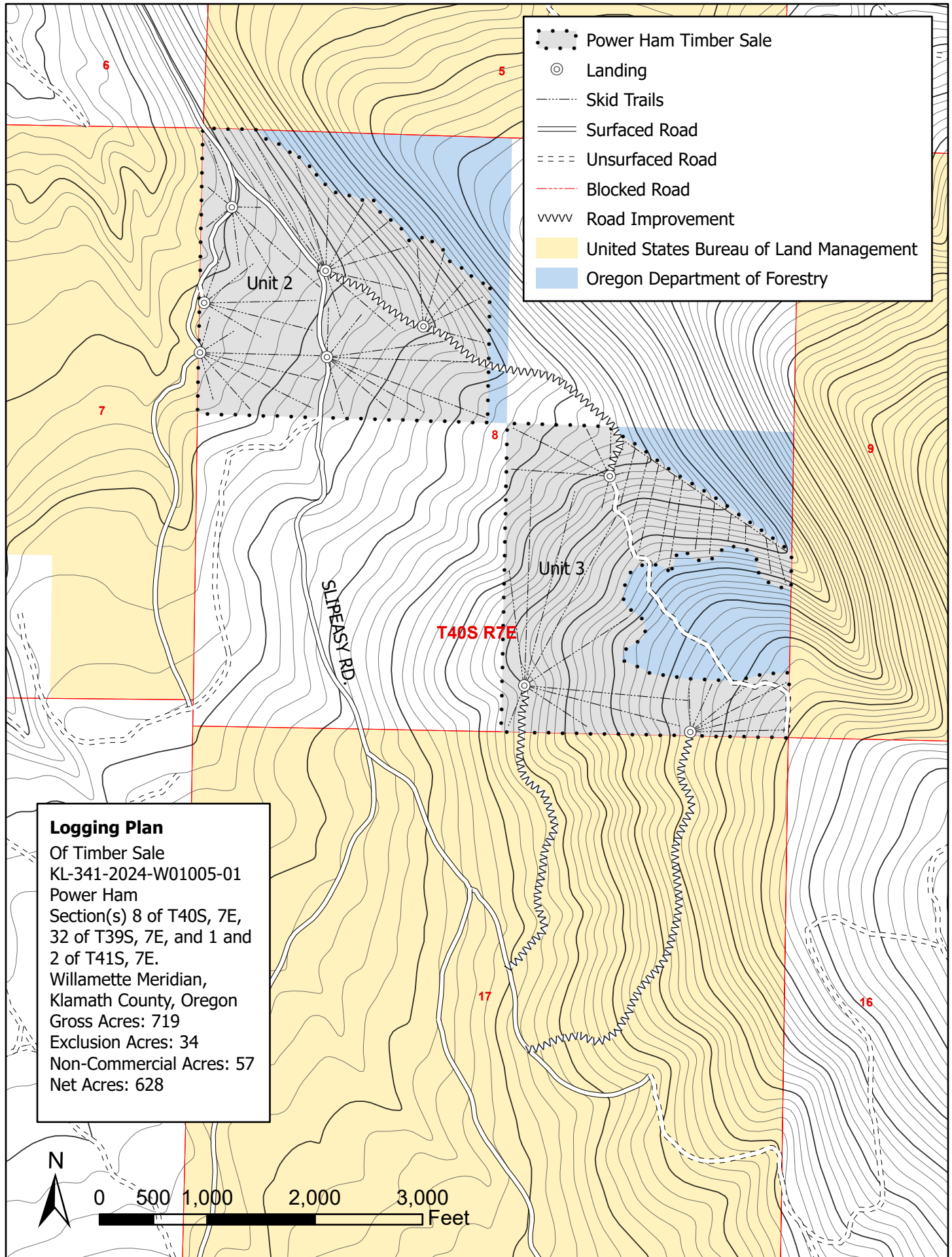
Project No. 1 - Landing Piling	\$5,922.50
Project No. 2 - Road Improvement	\$4,240.34
Project No.3- Road Closures	\$662.50
Project No.4 - Fell, Skid, and Pile Submerch	\$21,330.00
<b>Total Cost</b>	<u><b>\$32,155.34</b></u>
per Mbf	\$12.86

**Logging Plan**

Of Timber Sale  
KL-341-2024-W01005-01  
Power Ham  
Section(s) 8 of T40S, R7E,  
32 of T39S, R7E, and 1  
and 2 of T41S, R7E.  
Willamette Meridian,  
Klamath County, Oregon  
Gross Acres: 719  
Exclusion Acres: 34  
Non-Commercial Acres: 57  
Net Acres: 628

- Power Ham Timber Sale
- Exclusion
- Landing
- Skid Trails
- Surfaced Road
- Unsurfaced Road
- Blocked Road
- Federal or State highway
- Road Improvement
- United States Bureau of Land Management
- Oregon Department of Forestry
- Electric Transmission Lines







### Logging Plan

Of Timber Sale  
KL-341-2024-W01005-01  
Power Ham  
Section(s) 8 of T40S, 7E,  
32 of T39S, 7E, and 1 and  
2 of T41S, 7E.  
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