



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal  
Box 2 - GNA  
Sale KL-341-2025-GF7423-01

District: Klamath/Lake

Date: February 13, 2025

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**Cost Summary**

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$302,655.55	\$0.00	\$302,655.55
		Project Work:	(\$103,999.02)
		Advertised Value:	\$198,656.53



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## Timber Description

Location:

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
White Fir	15	0	96
Ponderosa Pine	15	0	98

Volume by Grade	Camprun	Total
White Fir	3,559	3,559
Ponderosa Pine	1,031	1,031
Total	4,590	4,590

**Comments:** Pond Values Used: Lakeview Pond Values, March 2025.

Log Markets: Lakeview

Other Costs (no Profit & Risk):None

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

### ROAD MAINTENANCE

Move-in: \$400.00

General Road Maintenance: 10 miles x \$211.00 per mile x 1 bladings = \$2,110.00

Total Road Maintenance: \$2,510.00, \$0.55 per Mbf



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**Logging Conditions**

<b>Combination#:</b> 1	White Fir	100.00%
	Ponderosa Pine	100.00%
<b>Logging System:</b>	Wheel Skidder	<b>Process:</b> Feller Buncher
<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>	13	<b>bd. ft / load:</b> 4000
<b>cost / mbf:</b>	\$192.31	
<b>machines:</b>	Log Loader (B) Stroke Delimber (B) Feller Buncher w/ Delimber Tire Skidder	

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### Logging Costs

Operating Seasons: 1.00	Profit Risk: 10%
Project Costs: \$103,999.02	Other Costs (P/R): \$0.00
Slash Disposal: \$0.00	Other Costs: \$0.00

Miles of Road

Road Maintenance: \$0.55

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

Hauling Costs

Species	\$ / MBF	Trips/Day	MBF / Load
White Fir	\$0.00	4.0	4.2
Ponderosa Pine	\$0.00	4.0	4.2



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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>White Fir</b>									
\$192.31	\$0.57	\$0.96	\$77.38	\$0.00	\$27.12	\$0.00	\$2.00	\$0.00	\$300.34
<b>Ponderosa Pine</b>									
\$192.31	\$0.56	\$0.96	\$75.89	\$0.00	\$26.97	\$0.00	\$2.00	\$0.00	\$298.69

Specie	Amortization	Pond Value	Stumpage	Amortized
White Fir	\$0.00	\$385.00	\$84.66	\$0.00
Ponderosa Pine	\$0.00	\$300.00	\$1.31	\$0.00



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### Summary

#### Amortized

Specie	MBF	Value	Total
White Fir	0	\$0.00	\$0.00
Ponderosa Pine	0	\$0.00	\$0.00

#### Unamortized

Specie	MBF	Value	Total
White Fir	3,559	\$84.66	\$301,304.94
Ponderosa Pine	1,031	\$1.31	\$1,350.61

#### Gross Timber Sale Value

Recovery: \$302,655.55

Prepared By: Chris Weekly

Phone: 541-883-5681

Box 2 - GNA  
KL-341-2026-GF7423-01

*Other Costs*

*Road Maintenance*

Move-in cost (grader):	\$400.00
Number of Miles to be Bladed:	10
Number of Bladings:	1
Total Miles:	10
Miles/Hour for Equipment:	0.5
Cost/Hour (grader with operator):	\$105.50
Total Grading Hours:	20
Grading Cost:	\$2,110.00
<b>Total Cost:</b>	<b>\$2,510.00</b>
Cost/Mbf:	\$0.55

WF	3559 Mbf	78%	Average Load	4.2 Mbf	No. of Loads	847
PP	1031 Mbf	22%	Average Load	4.2 Mbf	No. of Loads	246
<b>Total:</b>	<b>4590 Mbf</b>				<b>Total Loads</b>	<b>1093</b>

Assume: 4 Trucks/Day  
4 Trips/Day  
16 Loads per Day  
68 Hauling Days

# Box 2 - GNA

## KL-341-2026-GF7423-01

### Project Costs

*Project #1 Road Improvement and Construction*

#### Improvement

**Move in Cost Dozer: \$500**

	Points	Distance(ft)	Feet/Hour	Hours	Cost/Hour	Cost
Open/Clear/Shape	H to G	882	1000	0.88	\$145.00	\$127.89
Open/Clear/Shape	J to K	587	1000	0.59	\$145.00	\$85.12
Open/Clear/Shape	D to E	1714	1000	1.71	\$145.00	\$248.53
Open/Clear/Shape	E to F	1511	1000	1.51	\$145.00	\$219.10
Open/Clear/Shape	I to J	123	1000	0.12	\$145.00	\$17.84
Open/Clear/Shape	KK to LL	673	1000	0.67	\$145.00	\$97.59
Open/Clear/Shape	HH to II	3243	1000	3.24	\$145.00	\$470.24
Open/Clear/Shape	AA to BB	6542	1000	6.54	\$145.00	\$948.59
Open/Clear/Shape	CC to DD	4904	1000	4.90	\$145.00	\$711.08
	<b>Total</b>	20179		<b>Total Open/Clear /Shape</b>		\$2,925.96

#### Construction

**Move in Cost Excavator: \$500.00**

	Points	Distance(ft)	Feet/Hour	Hours	Cost/Hour	Cost
Open/Clear/Shape	M to N	1231	450	2.74	\$145.00	\$396.66
Open/Clear/Shape	P to Q	675	250	2.70	\$145.00	\$391.50
Open/Clear/Shape	U to V	456	450	1.01	\$145.00	\$146.93
Open/Clear/Shape	S to R	606	450	1.35	\$145.00	\$195.27
Open/Clear/Shape	Y to Z	2652	450	5.89	\$145.00	\$854.53
Open/Clear/Shape	A to B	896	750	1.19	\$145.00	\$173.23
Open/Clear/Shape	B to C	887	500	1.77	\$145.00	\$257.23
Open/Clear/Shape	X to W	1661	500	3.32	\$145.00	\$481.69
Open/Clear/Shape	L to M	1081	750	1.44	\$145.00	\$208.99
Open/Clear/Shape	O to P	1081	450	2.40	\$145.00	\$348.32
Open/Clear/Shape	T to U	1081	750	1.44	\$145.00	\$208.99
Open/Clear/Shape	II to JJ	1081	450	2.40	\$145.00	\$348.32
Open/Clear/Shape	LL to MM	1081	450	2.40	\$145.00	\$348.32
Open/Clear/Shape	EE to FF	1081	450	2.40	\$145.00	\$348.32
Open/Clear/Shape	EE to GG	1622	450	3.60	\$145.00	\$522.64
	<b>Total</b>	17172		<b>Total Open/Clear /Shape</b>		\$5,230.96



Box 2 - GNA  
KL-341-2026-GF7423-01  
*Project Costs*

*Project #1 Road Improvement and Construction*

Stream Crossing Point E	Hours	Cost/Hour	Cost
Place Bridge	3	\$150.00	\$450.00
Remove Bridge	3	\$150.00	\$450.00
	<b>Total</b>		<b>\$900.00</b>

*Project #1 Road Improvement and Construction Summary*

Equipment Move In Costs	\$1,000.00
Improvement Costs	\$2,925.96
Construction Costs	\$5,230.96
Stream Crossing Costs	\$900.00
<b>Project #1 Total</b>	<b>\$10,056.91</b>
per MBF	\$2.19

*Project #2 Fell, Skid, and Pile Submerchantable Material*

Total Sub-Sawlog Volume: 629 MBF

Fell and Skid/MBF:	\$65.00
Sort/MBF:	\$20.00
<b>Total</b>	<b>\$53,465.00</b>
per MBF	\$11.65

*Landing Slash Piling*

Number of Landings: 47

Shovel Time:	1 Hour per Landing	Cost per Hour: \$145.00	Total Cost	\$6,815.00
Cat Time:	1 Hour per Landing	Cost per Hour: \$145.00	Total Cost	\$6,815.00
		<b>Total</b>	<b>\$13,630.00</b>	
		per MBF	\$2.97	

Box 2 - GNA  
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*Project Costs*

*Project #2 Summary*

Fell, Skid, Pile Submerchantable Material	\$53,465.00
Landing Slash Piling	\$13,630.00
<b>Total Cost</b>	<b>\$67,095.00</b>
per Mbf	\$14.62

*Project #3 Road Closures and Waterbarring*

*Road Closures*

Closure Points:	6 (G, I, M, Y, W, AA)	<b>Hours</b>	<b>Cost/Hour</b>	<b>Cost</b>
		6.00	\$145.00	\$870.00

Decommission Segments:

	<b>Points</b>	<b>Distance(ft)</b>	<b>Feet/Hour</b>	<b>Hours</b>	<b>Cost/Hour</b>	<b>Cost</b>
Restore Grade	P to S	1485	500	2.97	\$145.00	\$430.65
	U to V	904	500	1.81	\$146.00	\$263.97
	EE to FF	565	500	1.13	\$147.00	\$166.11
	EE to GG	2675	500	5.35	\$148.00	\$791.80
	II to JJ	661	500	1.32	\$149.00	\$196.98
				<b>Total</b>		\$1,849.51

*Skid Trail Waterbarring*

47	Number of Landings
2	Hours per Landing
\$145.00	Cost per Hour (Cat)
<b>\$13,630.00</b>	<b>Total</b>
\$2.97	per Mbf

*Project #3 Summary*

Road Closure:	\$870.00
Road Decommission	\$1,849.51
Waterbarring:	\$13,630.00
<b>Total:</b>	<b>\$16,349.51</b>
per Mbf:	\$3.56

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*Project Costs*

*Project #4 Fungicide Treatment*

**State to Provide Chemical Supplies**

Acres to be treated:	729
Cutting Days (assume 5 acres per day):	145.8
Hours per Day:	3
Cost per Hour:	\$24.00
<b>Total Cost:</b>	<b>\$10,497.60</b>
Cost per Mbf:	\$2.29

*Cost Summary All Projects*

Project No. 1 - Road Improvement and Construction	\$10,056.91
Project No. 2 - Fell, Skid, and Pile Submerchantable Material	\$67,095.00
Project No. 3 - Road Closures and Waterbarring	\$16,349.51
Project No. 4 - Fungicide Treatment	\$10,497.60
<b>Total Cost</b>	<b>\$103,999.02</b>
per Mbf	\$22.66

# ***Box 2 – GNA***

## ***KL-341-2026-GF7423-01***

### ***Cruise Report***



**SALE NAME:** Box 2 – GNA

**ACREAGE:**

Gross Sale Acreage:	786 Acres
Excluded Acreage:	57 Acres
Net Sale Acreage:	729 Acres

Mapping was accomplished using a handheld GPS with the data run using ArcGIS Pro.

**TREATMENT:**

The Timber Sale is a purchaser select, partial cut harvest.

**CRUISE METHOD:**

Variable plot cruise with a ratio of two count plots for every measure plot. Fixed plot cruise for all sub-merchantable material (5.0" to 9.0") DBH for all Areas.

**BASAL AREA FACTOR:**

All plots were cruised with either a 13.61 or 20 Basal Area Factor. Prism factor was determined based on conditions on and around the cruised plot.

**PLOT DESIGNATION:**

Plot centers were established at every plot with blue flag wire stakes with the corresponding plot number. Blue and white stripped flagging was attached to the nearest available tree branch.

**SAMPLE SIZE CALCULATIONS:**

70 plots were taken. 24 measured and 46 count.

**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:**

5.0" DBH.

**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 FF.

**FORM POINT:**

All trees were sighted at DBH.

**VOLUME COMPUTATION:**

All cruise data was input and run at the district on Atterbury's Super Ace program.

**FINAL CRUISE RESULTS:**

CV%	SE%	ACRES
69.7	8.0	729

**TIMBER DESCRIPTION**

**RESIDUAL STAND CONDITION:**

Cruise resulted in an average basal area across the Timber Sale Area of 88 sqft/acre well above the targeted average of 60 sqft/acre. The large number of constrained trees (greater than 21" DBH) make it unlikely that the target basal area can be achieved stand wide.

**SAWLOG VOLUME:**

This volume was obtained from the variable plot cruise. All material graded camprun. See grade table for minimum standards.

**TOTAL SAWLOG VOLUME**

Species	Ave. DBH	Acres	Gross Vol/Acre (bf)	Net Vol/Acre (bf)	Net Sale Vol (Mbf)
White fir	14.5	729	5,522	5,424	3,954
Ponderosa pine	14.5	729	1,587	1,572	1,146
	<b>Total</b>		7,109	6,996	5,100

Due to a high level of unseen defect in adjacent sales the cruised volume will be reduced by 10%.

**TOTAL NET SAWLOG VOLUME: 4,590 Mbf**

**GREEN PULP VOLUME:**

This volume was obtained by combining material from the fixed plot cruise (5.0" – 9.0" DBH) with material from the variable plot cruise.

All material was graded green pulp, see grade table for minimum standards.

**FIXED PLOT CRUISE**

Species	Acres	Vol/Acre (bf)	Sale Vol (Mbf)
White fir	792	233	170
Ponderosa pine	792	203	148
<b>Total</b>		436	318

### VARIABLE PLOT CRUISE

Species	Acres	Vol/Acre (bf)	Sale Vol (Mbf)
White fir	792	262	191
Ponderosa pine	792	155	113
Western Juniper	792	9	7
<b>Total</b>		426	311

**TOTAL GREEN PULP VOLUME: 629 Mbf**



**LOGGING PLAN**  
Of Timber Sale Contract  
KL-341-2025-GF7423-01  
Box 2 - GNA  
Located in Portions of Section(s) 4, 6,  
7, 8, 9, 10, and 18 of T39S, R21E,  
Section(s) 31 of T38S, R21E, Section(s)  
25 and 26 of T38S, R20E, Willamette Meridian,  
Lake County, Oregon  
729 Acres

- |                              |                          |
|------------------------------|--------------------------|
| Box II - GNA Timber Sale     | Federal or State highway |
| Exclusion                    | Paved                    |
| Landing                      | Mainline Rd              |
| Skid Trails                  | All weather              |
| Haul Route                   | Dirt                     |
| Fremont National Forest      | City                     |
| US Bureau of Land Management | Road Improvement         |
| Collins Company              | Road Construction        |

