



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal  
Lobert SFB-GNA  
Sale KL-341-2025-GF7323-01

District: Klamath/Lake

Date: July 23, 2024

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**Cost Summary**

|                         | Conifer     | Hardwood          | Total         |
|-------------------------|-------------|-------------------|---------------|
| Gross Timber Sale Value | \$68,130.76 | \$0.00            | \$68,130.76   |
|                         |             | Project Work:     | (\$55,790.60) |
|                         |             | Advertised Value: | \$12,340.16   |



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## Timber Description

**Location:**

**Stand Stocking: 20%**

| Specie Name    | AvgDBH | Amortization (%) | Recovery (%) |
|----------------|--------|------------------|--------------|
| Douglas - Fir  | 15     | 0                | 98           |
| White Fir      | 16     | 0                | 98           |
| Ponderosa Pine | 14     | 0                | 98           |
| Lodgepole Pine | 11     | 0                | 95           |

| Volume by Grade | 3S & 4S 6"-11" | 2S | 6" - 11" | 12"-15" | Camprun | Total |
|-----------------|----------------|----|----------|---------|---------|-------|
| Douglas - Fir   | 169            | 0  | 0        | 0       | 0       | 169   |
| White Fir       | 122            | 75 | 0        | 0       | 0       | 197   |
| Ponderosa Pine  | 0              | 0  | 442      | 62      | 0       | 504   |
| Lodgepole Pine  | 0              | 0  | 0        | 0       | 14      | 14    |
| <b>Total</b>    | 291            | 75 | 442      | 62      | 14      | 884   |

**Comments:** Pond Values Used: Local Pond Values, June 2024

Log Markets: Klamath Falls and Medford.

Other Costs (no Profit & Risk): None

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

ROAD MAINTENANCE

Move-in: \$400.00

General Road Maintenance: 17.5 miles x \$270 per mile x 1 bladings = \$4,725.00

Total Road Maintenance: \$5,125.00, \$5.80 per Mbf



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**Logging Conditions**

|                          |                                                                                     |                                |
|--------------------------|-------------------------------------------------------------------------------------|--------------------------------|
| <b>Combination#:</b> 1   | Douglas - Fir                                                                       | 100.00%                        |
|                          | White Fir                                                                           | 100.00%                        |
|                          | Ponderosa Pine                                                                      | 100.00%                        |
|                          | Lodgepole 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)<br>Stroke Delimber (B)<br>Feller Buncher w/ Delimber<br>Tire Skidder |                                |

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### Logging Costs

|                            |                           |
|----------------------------|---------------------------|
| Operating Seasons: 1.00    | Profit Risk: 10%          |
| Project Costs: \$55,790.60 | Other Costs (P/R): \$0.00 |
| Slash Disposal: \$0.00     | Other Costs: \$0.00       |

Miles of Road

Road Maintenance: \$5.80

| Dirt | Rock<br>(Contractor) | Rock<br>(State) | Paved |
|------|----------------------|-----------------|-------|
| 0.0  | 0.0                  | 0.0             | 0.0   |

Hauling Costs

| Species        | \$ / MBF | Trips/Day | MBF / Load |
|----------------|----------|-----------|------------|
| Douglas - Fir  | \$0.00   | 3.0       | 4.6        |
| White Fir      | \$0.00   | 4.0       | 4.6        |
| Ponderosa Pine | \$0.00   | 4.0       | 4.6        |
| Lodgepole Pine | \$0.00   | 4.0       | 4.0        |



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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>  |            |              |         |                |               |                |               |        |          |
| \$192.31              | \$5.92     | \$4.96       | \$92.39 | \$0.00         | \$29.56       | \$0.00         | \$2.00        | \$0.00 | \$327.14 |
| <b>White Fir</b>      |            |              |         |                |               |                |               |        |          |
| \$192.31              | \$5.92     | \$4.96       | \$69.29 | \$0.00         | \$27.25       | \$0.00         | \$2.00        | \$0.00 | \$301.73 |
| <b>Ponderosa Pine</b> |            |              |         |                |               |                |               |        |          |
| \$192.31              | \$5.92     | \$4.96       | \$69.29 | \$0.00         | \$27.25       | \$0.00         | \$2.00        | \$0.00 | \$301.73 |
| <b>Lodgepole Pine</b> |            |              |         |                |               |                |               |        |          |
| \$192.31              | \$6.09     | \$4.96       | \$82.03 | \$0.00         | \$28.54       | \$0.00         | \$2.00        | \$0.00 | \$315.93 |

| Specie         | Amortization | Pond Value | Stumpage | Amortized |
|----------------|--------------|------------|----------|-----------|
| Douglas - Fir  | \$0.00       | \$581.00   | \$253.86 | \$0.00    |
| White Fir      | \$0.00       | \$426.05   | \$124.32 | \$0.00    |
| Ponderosa Pine | \$0.00       | \$303.08   | \$1.35   | \$0.00    |
| Lodgepole Pine | \$0.00       | \$320.00   | \$4.07   | \$0.00    |



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### Summary

#### Amortized

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

#### Unamortized

| Specie         | MBF | Value    | Total       |
|----------------|-----|----------|-------------|
| Douglas - Fir  | 169 | \$253.86 | \$42,902.34 |
| White Fir      | 197 | \$124.32 | \$24,491.04 |
| Ponderosa Pine | 504 | \$1.35   | \$680.40    |
| Lodgepole Pine | 14  | \$4.07   | \$56.98     |

#### Gross Timber Sale Value

Recovery: \$68,130.76

Prepared By: Brady Wood

Phone: 541-883-5681

Lobert SFB - GNA  
KL-341-2025-GF7323-01

*Other Costs*

*Road Maintenance*

|                                   |                   |
|-----------------------------------|-------------------|
| Move-in cost (grader):            | \$400.00          |
| Number of Miles to be Bladed:     | 17.5              |
| Number of Bladings:               | 1                 |
| Total Miles:                      | 17.5              |
| Miles/Hour for Equipment:         | 0.5               |
| Cost/Hour (grader with operator): | \$135.00          |
| Total Grading Hours:              | 35                |
| Grading Cost:                     | \$4,725.00        |
| <b>Total Cost:</b>                | <b>\$5,125.00</b> |
| Cost/Mbf:                         | \$5.80            |

|               |                |     |              |         |                    |            |
|---------------|----------------|-----|--------------|---------|--------------------|------------|
| DF            | 169 Mbf        | 19% | Average Load | 4.0 Mbf | No. of Loads       | 42         |
| WF            | 197 Mbf        | 22% | Average Load | 4.0 Mbf | No. of Loads       | 49         |
| PP            | 504 Mbf        | 57% | Average Load | 4.0 Mbf | No. of Loads       | 126        |
| LP            | 14 Mbf         | 2%  | Average Load | 4.0 Mbf | No. of Loads       | 0          |
| <b>Total:</b> | <b>884 Mbf</b> |     |              |         | <b>Total Loads</b> | <b>218</b> |

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

Lobert SFB - GNA  
KL-341-2025-GF7323-01

*Project Costs*

*Project #1 Road Improvement and Construction*

**Improvement**

**Move in Cost Cat:     \$500**

|                  | <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        | 1,376               | 1000             | 1.38         | \$150.00         | \$206.40    |
| Open/Clear/Shape | C to D        | 5,228               | 1000             | 5.23         | \$150.00         | \$784.20    |
|                  | <b>Total</b>  | 6,604               |                  | 6.60         |                  | \$990.60    |

*Project #1 Summary*

|                          |                   |
|--------------------------|-------------------|
| Move In Costs            | \$500.00          |
| Improvement Cost         | \$990.60          |
| <b>Project # 2 Total</b> | <b>\$1,490.60</b> |
| per Mbf                  | \$1.69            |

Lobert SFB - GNA  
KL-341-2025-GF7323-01  
*Project Costs*

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

Total Sub-Sawlog Volume: 273 MBF

Fell and Skid/MBF: \$75.00

Sort/MBF: \$25.00

**Total \$27,300.00**

per MBF \$30.88

*Landing Slash Piling*

Number of Landings: 45

|              |                    |                         |            |            |
|--------------|--------------------|-------------------------|------------|------------|
| Shovel Time: | 1 Hour per Landing | Cost per Hour: \$150.00 | Total Cost | \$6,750.00 |
|--------------|--------------------|-------------------------|------------|------------|

|           |                    |                         |            |            |
|-----------|--------------------|-------------------------|------------|------------|
| Cat Time: | 1 Hour per Landing | Cost per Hour: \$150.00 | Total Cost | \$6,750.00 |
|-----------|--------------------|-------------------------|------------|------------|

**Total \$13,500.00**

per MBF \$15.27

*Project #2 Summary*

Fell, Skid, Pile Submerchantable Material \$27,300.00

Landing Slash Piling \$13,500.00

**Total Cost \$40,800.00**

per Mbf \$46.15

*Project #3 Road Closures and Waterbarring*

*Skid Trail Waterbarring*

45 Number of Landings

2 Hours per Landing

\$150.00 Cost per Hour (Cat)

**\$13,500.00 Total**

\$15.27 per Mbf

*Project #3 Summary*

Road Closure: \$0.00

Waterbarring: \$13,500.00

**Total: \$13,500.00**

per Mbf: \$15.27

Lobert SFB - GNA  
KL-341-2024-GF7323-01  
*Project Costs*

*Cost Summary All Projects*

|                                                              |                    |
|--------------------------------------------------------------|--------------------|
| Project No.1 - Road Improvement and Construction             | \$1,490.60         |
| Project No.2 - Fell, Skid, and Pile Submerchantable Material | \$40,800.00        |
| Project No.3 - Waterbarring                                  | \$13,500.00        |
| <b>Total Cost</b>                                            | <b>\$55,790.60</b> |
| per Mbf                                                      | \$63.11            |

# ***Lobert SFB - GNA***

## ***KL-341-2025-GF7323-01***

### ***Cruise Report***



**SALE NAME:** Replacement- GNA

**LEGAL DESCRIPTION:**

Located in Section(s) 5, 6, 7, 8, 17, 18, 29, 32 of T36S, R8E, Section(s) 1 of T 36S, R7E, Section(s) 7, 18, 19, 30, 31, T35S, R8E, Section(s) 12, 13, 24 T35S, R7E, Willamette Meridian, Klamath County, Oregon

**BOUNDARY LINES:**

Unit boundaries are unmarked.

**ACREAGE:**

|                     |           |
|---------------------|-----------|
| Gross Sale Acreage: | 386 Acres |
| Exclusion Acreage:  | 10 Acres  |
| Net Sale Acreage:   | 376Acres  |

Mapping was accomplished using Avenza pdf Maps with the data processed through ArcMap.

**TREATMENT:**

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

**CRUISE METHOD:**

Variable plot cruise with a ratio of two count plot for every measure plot. Fixed plot cruise for sub-merchantable material was 5 – 9 inch DBH for all species.

**BASAL AREA FACTOR:**

A basal area factor of 10 was used for all variable cruise plots. Fixed plots were cruised at  $\frac{1}{50}$  of an acre

**PLOT DESIGNATION:**

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

**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 |
|------|------|-------|
| 79.7 | 14.3 | 537   |

**TIMBER DESCRIPTION****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.<br>DBH | Acres        | Gross<br>Vol/Acre (bf) | Net<br>Vol/Acre<br>(bf) | Net Sale<br>Vol (Mbf) |
|----------------|-------------|--------------|------------------------|-------------------------|-----------------------|
| Ponderosa pine | 13.9        | 376          | 1,340                  | 1,340                   | 504                   |
| White fir      | 16.1        | 376          | 524                    | 524                     | 197                   |
| Douglas-fir    | 15.2        | 376          | 450                    | 450                     | 169                   |
| Lodgepole pine | 11          | 376          | 38                     | 38                      | 14                    |
|                |             | <b>Total</b> | 2,352                  | 2,352                   | 884                   |

**TOTAL NET SAWLOG VOLUME: 884 MBF**

**GREEN PULP VOLUME:**

This volume was obtained from the fixed plot cruise. All material was graded green pulp, see grade table for minimum standards.

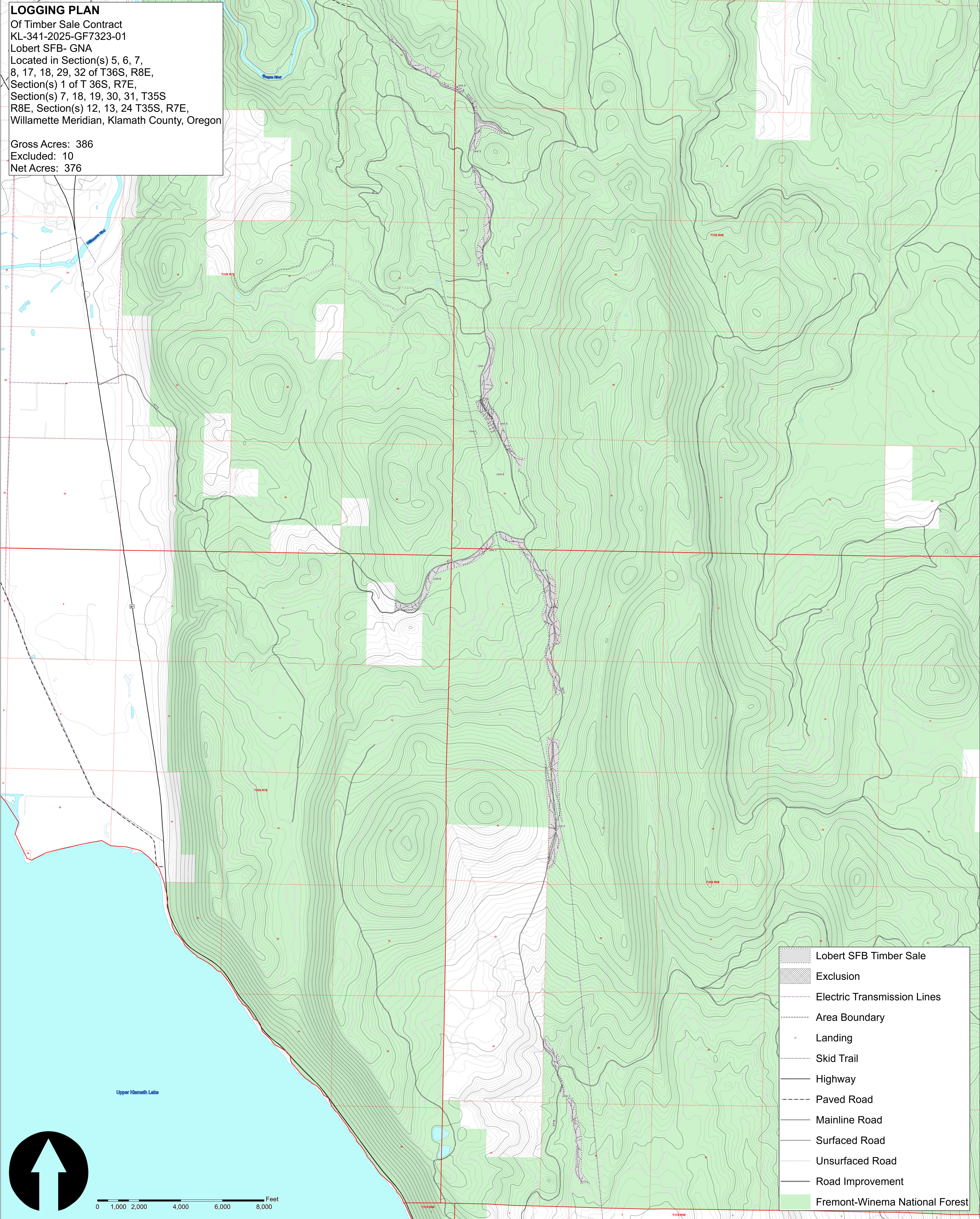
**FIXED PLOT CRUISE**

| <b>Species</b>  | <b>Acres</b> | <b>Vol/Acre<br/>(bf)</b> | <b>Sale Vol<br/>(Mbf)</b> |
|-----------------|--------------|--------------------------|---------------------------|
| Ponderosa pine  | 376          | 387                      | 146                       |
| Lodgepole pine  | 376          | 113                      | 42                        |
| White fir       | 376          | 194                      | 73                        |
| Western juniper | 376          | 32                       | 12                        |
| <b>Total</b>    |              | 726                      | 273                       |

**TOTAL GREEN PULP VOLUME: 273 Mbf**

**LOGGING PLAN**  
Of Timber Sale Contract  
KL-341-2025-GF7323-01  
Lobert SFB- GNA  
Located in Section(s) 5, 6, 7,  
8, 17, 18, 29, 32 of T36S, R8E,  
Section(s) 1 of T 36S, R7E,  
Section(s) 7, 18, 19, 30, 31, T35S  
R8E, Section(s) 12, 13, 24 T35S, R7E,  
Willamette Meridian, Klamath County, Oregon

Gross Acres: 386  
Excluded: 10  
Net Acres: 376



- Lobert SFB Timber Sale
- Exclusion
- Electric Transmission Lines
- Area Boundary
- Landing
- Skid Trail
- Highway
- Paved Road
- Mainline Road
- Surfaced Road
- Unsurfaced Road
- Road Improvement
- Fremont-Winema National Forest

0 1,000 2,000 4,000 6,000 8,000 Feet