



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Purdy Slim
Sale 341-13-96

District: Coos

Date: April 15, 2013

cost summary

| | Conifer | Hardwood | Total |
|-------------------------|-------------|-------------------|--------------|
| Gross Timber Sale Value | \$30,778.79 | \$16,848.50 | \$47,627.29 |
| | | Project Work: | \$(2,310.00) |
| | | Advertised Value: | \$45,317.29 |



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District: Coos

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timber description

Location: Portions of Section 16, T22S, R9W, W.M., Douglas County, Oregon.

Stand Stocking: 40%

| SpecieName | AvgDBH | Amortization (%) | Recovery (%) |
|-----------------------|--------|------------------|--------------|
| Douglas - Fir | 15 | 0 | 95 |
| Western Hemlock / Fir | 13 | 0 | 95 |
| Red Cedar | 32 | 0 | 95 |
| Alder (Red) | 19 | 0 | 90 |
| Maple | 16 | 0 | 90 |

| Volume by Grade | 10" - 11" | 12"+ | 2S | 3S | 3S 12"+ | 4S | 6" - 7" | 8" - 9" | Total |
|-----------------------|-----------|------|----|----|---------|----|---------|---------|-------|
| Douglas - Fir | 0 | 0 | 34 | 72 | 10 | 10 | 0 | 0 | 126 |
| Western Hemlock / Fir | 0 | 0 | 0 | 11 | 0 | 2 | 0 | 0 | 13 |
| Red Cedar | 0 | 0 | 0 | 1 | 0 | 5 | 0 | 0 | 6 |
| Alder (Red) | 12 | 39 | 0 | 0 | 0 | 0 | 12 | 18 | 81 |
| Maple | 0 | 2 | 0 | 0 | 0 | 0 | 3 | 2 | 7 |
| Total | 12 | 41 | 34 | 84 | 10 | 17 | 15 | 20 | 233 |



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comments: Pond Values Used: 1st Quarter Calendar Year 2013.

Regeneration harvest of 13 net acres of 93 year old second growth and 46 year old third growth Douglas-fir with a significant amount of red alder and minor amounts of western hemlock, western redcedar, and bigleaf maple.

Douglas-fir 2S, 3S, & 4S Pond Values = Local Pond Values

Bigleaf Maple Pond Values = Local Pond Values

SCALING COST ALLOWANCE = \$5.00/MBF

FUEL COST ALLOWANCE = \$4.00/Gallon

HAULING COST ALLOWANCE

Hauling costs equivalent to \$780 daily truck cost.

Other Costs (with Profit & Risk to be added):

FELLING:

Felling of Unmerchantable Material: 12 MBF @ \$1/MBF = \$12

Directional Felling: 5 MBF @ \$2/MBF = \$10

YARDING & LOADING:

Locate Corridors & Skid Roads: 2 MBF @ \$5/MBF = \$10

Artificial Guyline Support : 1 anchor @ \$500/anchor = \$500

Brand & Paint Logs: 233 MBF @ \$1/MBF = \$233

Loader Time for Slash Piling: 4 hours @ \$75/hour = \$300

Cover Slash Piles w/Sheeting: 2 piles @ \$50/pile = \$100

Rig Tail Tree: 2 trees @ \$100/tree = \$200

TOTAL Other Costs (with Profit & Risk to be added)) = \$1,365

Other Costs (No Profit & Risk added):

ROAD EASEMENTS:

Oxbow Timber I, LLC Rock Wear Fee: 233 MBF @ \$3.30/MBF = \$768.90

TOTAL Other Costs (No Profit & Risk added) = \$768.90



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logging conditions

| | | | |
|--------------------------|---|--------------------------|------------------|
| combination#: | 1 | Douglas - Fir | 100.00% |
| | | Western Hemlock / Fir | 100.00% |
| | | Red Cedar | 100.00% |
| | | Alder (Red) | 100.00% |
| | | Maple | 100.00% |
| yarding distance: | Long (1,500 ft) | downhill yarding: | No |
| logging system: | Cable: Large Tower >=70 | Process: | Manual Delimbing |
| tree size: | Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF | | |
| loads / day: | 6.0 | bd. ft / load: | 3,800 |
| cost / mbf: | \$161.99 | | |
| machines: | Log Loader (A) Tower Yarder (Large) | | |



"STEWARDSHIP IN FORESTRY"

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Date: April 15, 2013

logging costs

| | | | |
|---------------------------|------------|---------------------------|------------|
| Operating Seasons: | 2.00 | Profit Risk: | 20.00% |
| Project Costs: | \$2,310.00 | Other Costs (P/R): | \$1,365.00 |
| Slash Disposal: | \$0.00 | Other Costs: | \$768.90 |

Miles of Road

Road Maintenance: \$0.00

| Dirt | Rock (Contractor) | Rock (State) | Paved |
|------|----------------------|-----------------|-------|
| 1.0 | 0.0 | 0.0 | 0.0 |

Hauling Costs

| Species | \$ / MBF | Trips/Day | MBF / Load |
|-----------------------|----------|-----------|------------|
| Douglas - Fir | \$0.00 | 2.0 | 3.8 |
| Western Hemlock / Fir | \$0.00 | 2.0 | 3.8 |
| Red Cedar | \$0.00 | 2.0 | 3.8 |
| Alder (Red) | \$75.00 | 2.0 | 3.5 |
| Maple | \$75.00 | 2.0 | 3.5 |

Local Pond Values

| Date | Specie | Grade | Value |
|---------|---------------|---------|----------|
| 4/10/13 | Douglas - Fir | 2S | \$600.00 |
| 4/10/13 | Douglas - Fir | 3S | \$580.00 |
| 4/10/13 | Douglas - Fir | 4S | \$570.00 |
| 4/10/13 | Maple | 8" - 9" | \$410.00 |
| 4/10/13 | Maple | 12"+ | \$520.00 |
| 4/10/13 | Maple | 6" - 7" | \$400.00 |



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logging costs breakdown

| Logging | Road Maint | Fire Protect | Hauling | Other P/R appl | Profit & Risk | Slash Disposal | Scaling | Other | Total |
|------------------------------|------------|--------------|---------|----------------|---------------|----------------|---------|--------|----------|
| Douglas - Fir | | | | | | | | | |
| \$161.99 | \$0.63 | \$37.64 | \$89.81 | \$5.86 | \$59.19 | \$0.00 | \$5.00 | \$3.30 | \$363.42 |
| Western Hemlock / Fir | | | | | | | | | |
| \$161.99 | \$0.63 | \$37.64 | \$89.81 | \$5.86 | \$59.19 | \$0.00 | \$5.00 | \$3.30 | \$363.42 |
| Red Cedar | | | | | | | | | |
| \$161.99 | \$0.63 | \$37.64 | \$89.81 | \$5.86 | \$59.19 | \$0.00 | \$5.00 | \$3.30 | \$363.42 |
| Alder (Red) | | | | | | | | | |
| \$161.99 | \$0.66 | \$37.64 | \$82.50 | \$5.86 | \$57.73 | \$0.00 | \$5.00 | \$3.30 | \$354.68 |
| Maple | | | | | | | | | |
| \$161.99 | \$0.66 | \$37.64 | \$82.50 | \$5.86 | \$57.73 | \$0.00 | \$5.00 | \$3.30 | \$354.68 |

| Specie | Amortization | Pond Value | Stumpage | Amortized |
|-----------------------|--------------|------------|----------|-----------|
| Douglas - Fir | \$0.00 | \$567.14 | \$203.72 | \$0.00 |
| Western Hemlock / Fir | \$0.00 | \$508.85 | \$145.43 | \$0.00 |
| Red Cedar | \$0.00 | \$900.00 | \$536.58 | \$0.00 |
| Alder (Red) | \$0.00 | \$555.56 | \$200.88 | \$0.00 |
| Maple | \$0.00 | \$437.14 | \$82.46 | \$0.00 |



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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 |
| Red Cedar | 0 | \$0.00 | \$0.00 |
| Alder (Red) | 0 | \$0.00 | \$0.00 |
| Maple | 0 | \$0.00 | \$0.00 |

Unamortized

| Specie | MBF | Value | Total |
|-----------------------|-----|----------|-------------|
| Douglas - Fir | 126 | \$203.72 | \$25,668.72 |
| Western Hemlock / Fir | 13 | \$145.43 | \$1,890.59 |
| Red Cedar | 6 | \$536.58 | \$3,219.48 |
| Alder (Red) | 81 | \$200.88 | \$16,271.28 |
| Maple | 7 | \$82.46 | \$577.22 |

Gross Timber Sale Value

Recovery: \$47,627.29

Prepared by: Joe Goldsby

Phone: 541-267-1754

Summary of "Other Costs" for Timber Sale Appraisals

Sale Name: Purdy Slim

Additional "Other Cost" with additional profit and risk to be added:

| | <u>Units</u> | <u>Quantity</u> | <u>Cost/unit</u> | <u>Total Cost</u> |
|--|--------------|-----------------|------------------|-------------------|
| Felling | | | | |
| Felling of unmerch material | MBF | 12 | \$ 1.00 | \$ 12.00 |
| Directional Felling | MBF | 5 | \$ 2.00 | \$ 10.00 |
| Yarding and Loading | | | | |
| Ground Based Equipment Wash | Hours | 0 | \$ 65.00 | \$ - |
| Locate Corridors and Skid Roads | MBF | 2 | \$ 5.00 | \$ 10.00 |
| Artificial guyline support (Dozer/Skidder) | anchor | 1 | \$ 500.00 | \$ 500.00 |
| Brand and paint logs | MBF | 233 | \$ 1.00 | \$ 233.00 |
| Loader time for firewood stacking & slash piling | Hours | 4 | \$ 75.00 | \$ 300.00 |
| Cover landing slash pile w/sheeting | pile | 2 | \$ 50.00 | \$ 100.00 |
| Rig tail trees | tree | 2 | \$ 100.00 | \$ 200.00 |
| Snag Creation | | | | |
| Tree Topping @ 60 feet + | Trees | 0 | \$ 100.00 | \$ - |
| Tree Girdling @ 60 feet + | Trees | 0 | \$ 125.00 | \$ - |
| Tree Girdling @ DBH | Trees | 0 | \$ 75.00 | \$ - |
| Miscellaneous Costs | | | | |
| Log Placement in Stream | Crossings | 0 | \$ - | \$ - |
| Additional Fire Equipment | Seasons | 0 | \$ 1,500.00 | \$ - |
| Maintenance rock per section 5 | Cubic Yards | 0 | \$ 18.00 | \$ - |
| Safety Flagging and/or signing | per day | 0 | \$ 110.00 | \$ - |

Total additional "Other Cost" with additional profit and risk to be added

\$ 1,365.00



Additional "Other Cost" with no additional profit and Risk

| | <u>Units</u> | <u>Quantity</u> | <u>Cost/unit</u> | <u>Total Cost</u> |
|--------------------------------|--------------|-----------------|------------------|-------------------|
| Log Placement in Stream | | | | |
| Non-required road construction | Stations | | | \$ - |
| Non-required road rocking | Cubic Yards | | | \$ - |
| Stream clearance | Feet | | | \$ - |
| Scaling (high piece count) | MBF | | \$ 1.00 | \$ - |
| Road Easements: | | | | |
| Oxbow Timber I Rock Wear Fee | MBF | 233 | \$ 3.30 | \$ 768.90 |

Total additional "Other Cost" with no additional profit and Risk

\$ 768.90

SUMMARY OF CONSTRUCTION COST
Purdy Slim

Project 1A: Road Improvement

Points: A to B Length: 9,070 Type: 16' w/ditch

| | | | | | |
|-------------|---|--------|---------|----------|----------|
| Grader time | 2 | hrs at | \$85.00 | per hour | \$170.00 |
|-------------|---|--------|---------|----------|----------|

Total Project 1A: \$170.00

Project 1B: Road and Landing Improvement

Points: B to C Length: 5,330' Type: 14' no ditch

| | | | | | |
|-------------|---|--------|----------|----------|----------|
| Cat time | 5 | hrs at | \$140.00 | per hour | \$700.00 |
| Grader time | 4 | hrs at | \$85.00 | per hour | \$340.00 |

Total Project 1B: \$1,040.00

Move-in

| Equipment | hrs/RT | Rate/hr | Lowboy Total |
|-----------|--------|----------|-----------------|
| Cat | 6 | \$100.00 | \$600.00 |
| Grader | 5 | \$100.00 | \$500.00 |

Total Move-in: \$1,100.00

Total Project Costs \$2,310.00

Operating Periods Restrictions Matrix for Purdy Slim 341-13-96

| Harvesting | January | February | March | April | May | June | July | August | September | October | November | December |
|-----------------------------------|---------|----------|-------|-------|------|------|---------|---------|-----------|-----------|----------|----------|
| | | | 1st | 1st | 16th | | 7th 8th | 5th 6th | 15th 16th | 14th 15th | | |
| Ground-based Yarding | | | | | | | | | | | | |
| Cable Yarding on unsurfaced roads | | | | | | | | | | | | |

| Hauling | January | February | March | April | May | June | July | August | September | October | November | December |
|---------------------------------|---------|----------|-------|-------|-----------|------|------|---------|-----------|---------|----------|----------|
| | | | 1st | 1st | 15th 16th | | | 5th 6th | 15th 16th | 15th | | |
| Log Hauling on Unsurfaced Roads | | | | | | | | | | | | |

| Project Work | January | February | March | April | May | June | July | August | September | October | November | December |
|--------------|---------|----------|-------|-------|-----------|------|------|---------|-----------|---------|----------|----------|
| | | | 1st | 1st | 15th 16th | | | 5th 6th | 15th 16th | 15th | | |
| Project 1 | | | | | | | | | | | | |



Operations Allowed



Activity Restricted 2 hours before
sunset through 2 hours after sunrise



Operations Prohibited - T & E



Operations Prohibited for weather conditions: unless otherwise
approved in writing by STATE

~~~~~ Operating Matrix represents the seasonal restrictions contained within the body of the timber sale contract. See the contract for further information on seasonal restrictions. ~~~~~

## **TIMBER SALE SUMMARY**

### **Purdy Slim**

**1. Type of Sale:** Final Harvest, Recovery, Sealed Bid.

**2. Boundary Lines:** Sale boundaries are marked on the ground with "Timber Sale Boundary" posters, red flagging, and red paint at locations shown on the Exhibit "A."

**3. Revenue Distribution:** 100% CSL, 100% Douglas County.

**4. Sale Acreage:** The total sale area is 13 net acres. Sale acreage was determined from electronic digitizing of orthophoto imagery using the ArcMap 10 GIS program. Roads within the timber sale area were excluded from the cruise acreage.

#### **5. Volume by Species:**

| <b>Species</b> | <b>Total Volume (MBF)</b> | <b>Volume (MBF) per Acre</b> |
|----------------|---------------------------|------------------------------|
| Douglas-fir    | 126                       | 9.69                         |
| Hemlock        | 13                        | 1.00                         |
| Redcedar       | 6                         | 0.46                         |
| Red Alder      | 81                        | 6.23                         |
| Bigleaf Maple  | 7                         | 0.54                         |
|                |                           |                              |
| <b>Total</b>   | <b>233</b>                | <b>17.92</b>                 |

#### **6. Grade:** (by Percent, all areas)

| <b>Species</b> | <b>3 Peeler</b> | <b>Spec. Mill</b> | <b>2 Saw</b> | <b>3 Saw</b>  | <b>Big 3 Saw</b> | <b>4 Saw</b> |
|----------------|-----------------|-------------------|--------------|---------------|------------------|--------------|
| Douglas-fir    |                 |                   | 27%          | 57%           | 8%               | 8%           |
| Hemlock        |                 |                   |              | 87%           |                  | 13%          |
| Redcedar       |                 |                   |              | 22%           |                  | 78%          |
|                |                 |                   | <b>12"+</b>  | <b>10-11"</b> | <b>8-9"</b>      | <b>6-7"</b>  |
| Red Alder      |                 |                   | 48%          | 15%           | 22%              | 15%          |
| Bigleaf Maple  |                 |                   | 27%          |               | 32%              | 41%          |

**7. Grading System:** All trees were graded according to the Southern Oregon Log Scaling and Grading Rules. All trees were graded favoring 40 foot logs.

**8. Cruise:** The timber sale area was originally cruised in July 2008 using a variable plot cruise with a nested Big Basal Area Factor (BAF) plot. The Big BAF method is a combination of count plots and individually measured trees. 40 BAF full plots at 16 feet were used to determine tree counts and to measure minor species. The 40 BAF plots were spaced 66 feet apart on cruise lines spaced 396 feet apart. A total of 22 count plots were measured. Nested 250 BAF full plots at 16 feet were used to determine which Douglas-fir trees would be fully measured for diameter at breast height, total height, grade, and defect. Nested plots were taken on every 40 BAF plot. A total of 3 Douglas-fir trees were measured. The cruise was analyzed using the SuperACE cruising program.

Additional plots were cruised in January 2012, using the same measurement specifications as the original cruise. A total of eight count plots and 4 Douglas-fir measure trees were added in this cruise.

All cruising was completed by ODF foresters.  
Note: Old-growth trees were excluded from the cruise.

A. Summary data:

| Diam | Stand Height | Form Point                    | Form Factor                           | CV % | SE %  |
|------|--------------|-------------------------------|---------------------------------------|------|-------|
| DBH  | Total Height | Conifer: 16'<br>Hardwood: 16' | Estimated or measured<br>on all trees | 79.2 | 14.46 |

B. Stand Data:

| SPECIES              | D4H | TREES/ACRE | BASAL<br>AREA/AC | NET<br>MBF/ACRE |
|----------------------|-----|------------|------------------|-----------------|
| Douglas-fir          | 15  | 67         | 86               | 9.69            |
| Hemlock              | 13  | 12         | 11               | 1.00            |
| Western Red<br>Cedar | 32  | 1          | 7                | 0.46            |
| Red Alder            | 19  | 41         | 80               | 6.23            |
| Bigleaf Maple        | 16  | 11         | 15               | 0.54            |

C. Green Tree Retention: Reserve areas consist of stream buffer extensions, trees left along seasonal and perennial drainages, and individually marked trees. Green trees individually marked are painted with red "W" and have been removed from the cruised volume. Stream buffers and GTR areas are mapped in Exhibit "A." The table below shows reserve trees whose volumes have been removed from the cruise.

| Area | Douglas-fir | Red Alder |
|------|-------------|-----------|
| 1    | 10.7 MBF    | 0.1 MBF   |

Note: Old-growth trees were not included in the cruise. As such, individually marked old-growth trees have not been removed from the cruised volume.

**9. Timber Description:** The timber sale area is moderately to sparsely stocked with approximately 93 year-old second growth and 46 year-old third growth Douglas-fir with minor amounts of western hemlock, western redcedar, bigleaf maple, and red alder. The average cruised Douglas-fir is 15 inches with a total height of 95 feet. Timber is average quality.

**10. Topography:** The timber sale area is long and narrow at just over 2,300 feet east to west and 300 feet north to south. A main ridge runs along the western edge of the sale boundary. Slopes range from 20% to 100%. Locations of stream buffers and green tree retention areas are indicated on Exhibit "A."

**11. Logging Method:** The timber sale is designed to be uphill cable yarded with a large yarder (>70 feet in height) from the landing at Point C1. Yarding distances are long at over 2000 feet. Due to the width of the sale a limited number of yarding corridors should be required. Tail trees may be necessary and have been accounted for in the timber sale appraisal. Limited guyline opportunities may exist. An artificial guyline anchor has been accounted for in the timber sale appraisal.

Final determination of landing locations and logging method must give priority to protection of stream buffers and green tree retention areas. Full suspension will be required when yarding over drainages and stream buffers, and single end suspension will be required over the remainder of the sale area. This sale is intended for dry season operation. Roads and landings are indicated on Exhibit "A" and Logging Plan maps.

**12. Access:** From Coos Bay travel north on Highway 101 for 27 miles to Reedsport. Proceed east on Highway 38 for 21 miles to Burchard Creek Road. Project Point A1 is located at the bottom of Burchard Creek Road.

**13. Projects:**

Project 1: Road and Landing Improvement

# CRUISE VOLUME COMPUTATION REPORT

SALE NAME: Purdy Slim  
LEGAL LOCATION: T22S, R9W Sec. 16

DATE: 03/04/2013  
BY: Joe Goldsby

## GROSS VOLUME MBF \*

| SPECIES>>     | Doug-fir | Hemlock | Red Cedar | Bigleaf Maple | Red Alder | TOTAL |
|---------------|----------|---------|-----------|---------------|-----------|-------|
| AREA          | BY AREA  |         |           |               |           |       |
| 1             | 161      | 15      | 7         | 8             | 98        | 289   |
| Less GTR Vol. | 11       | 0       | 0         | 0             | 1         | 12    |
| TOTAL         | 150      | 15      | 7         | 8             | 97        | 277   |

## DEFECT AND BREAKAGE \*

| Species     | Doug-fir | Hemlock | Red Cedar | Bigleaf Maple | Red Alder |
|-------------|----------|---------|-----------|---------------|-----------|
| Field cull  | 0.03     | 0.02    | 0.02      | 0.02          | 0.03      |
| Hidden cull | 0.05     | 0.05    | 0.05      | 0.05          | 0.06      |
| Breakage    | 0.08     | 0.07    | 0.07      | 0.07          | 0.07      |
| Total       | 0.16     | 0.14    | 0.14      | 0.14          | 0.16      |

## NET VOLUME BY MBF BY AREA\*

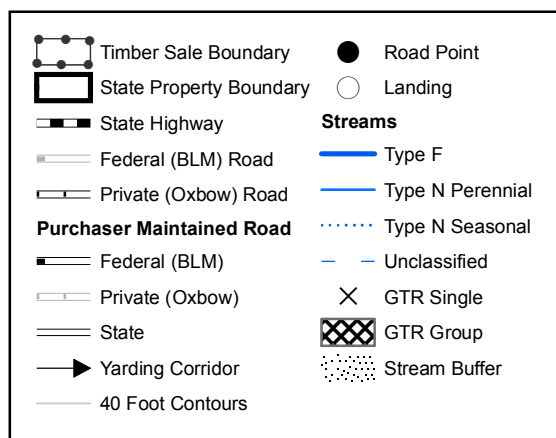
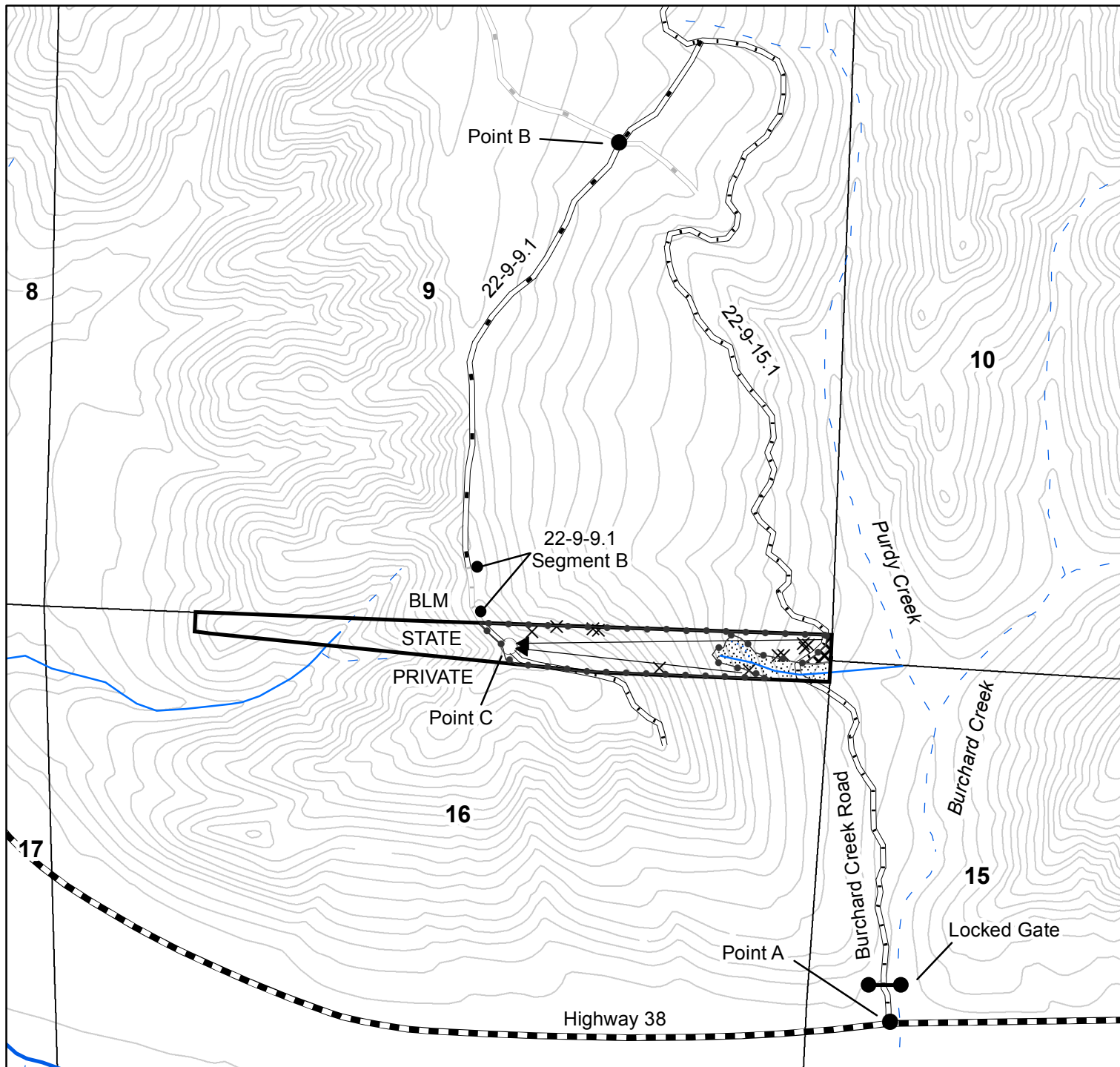
| SPECIES | Doug-fir | Hemlock | Red Cedar | Bigleaf Maple | Red Alder | TOTALS |
|---------|----------|---------|-----------|---------------|-----------|--------|
| AREA    | BY AREA  |         |           |               |           |        |
| 1       | 126      | 13      | 6         | 7             | 81        | 233    |
| TOTALS  | 126      | 13      | 6         | 7             | 81        | 233    |

## NET VOLUME BY GRADE AND MBF \*

| Grade >>>>>>>>>> | 2 PEE | 3 PEE | SM | 2SAW(12"+) | 3SAW(12"+) | 3SAW(10-11") | (RA) 4SAW(8-9") | (RA) (6-7") |
|------------------|-------|-------|----|------------|------------|--------------|-----------------|-------------|
| Species          |       |       |    |            |            |              |                 |             |
| Doug-Fir         | 0     | 0     | 0  | 34         | 10         | 72           | 10              | 0           |
| Red Alder        | 0     | 0     | 0  | 0          | 39         | 12           | 18              | 12          |
| Red Cedar        | 0     | 0     | 0  | 0          | 0          | 1            | 5               | 0           |
| Hemlock          | 0     | 0     | 0  | 0          | 0          | 11           | 2               | 0           |
| Bigleaf Maple    | 0     | 0     | 0  | 0          | 2          | 0            | 2               | 3           |

## GRADE DISTRIBUTION BY PERCENT

| Grade >>>>>>>>>> | 2 PEE | 3 PEE | SM | 2SAW(12"+) | 3SAW(12"+) | 3SAW(10-11") | 4SAW(8-9") | (6-7") |
|------------------|-------|-------|----|------------|------------|--------------|------------|--------|
| Doug-fir         | 0%    | 0%    | 0% | 27%        | 8%         | 57%          | 8%         | 0%     |
| Red Alder        | 0%    | 0%    | 0% | 0%         | 48%        | 15%          | 22%        | 15%    |
| Red Cedar        | 0%    | 0%    | 0% | 0%         | 0%         | 22%          | 78%        | 0%     |
| Hemlock          | 0%    | 0%    | 0% | 0%         | 0%         | 87%          | 13%        | 0%     |
| Bigleaf Maple    | 0%    | 0%    | 0% | 0%         | 27%        | 0%           | 32%        | 41%    |

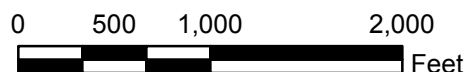


## Logging Plan

Purdy Slim  
Timber Sale No. 341-13-96

Portions of Sections 16  
T22S, R9W, W.M.  
Douglas County, OR  
Regulated Use Area CS-2  
100% CSL

13 Net Acres



1:12,000

The information shown on this map are approximate locations. Exact locations of features represented by map symbols will be determined on site and shall depend upon the conditions that exist on site. Activities shall be conducted based upon features determined on site rather than features shown on maps.