



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Sullivan Daggett Divide
Sale 341-10-32

District: Coos

Date: June 08, 2009

cost summary

| | Conifer | Hardwood | Total |
|--------------------------------|----------------|--------------------------|---------------|
| Gross Timber Sale Value | \$269,506.39 | \$95,883.75 | \$365,390.14 |
| | | Project Work: | \$(65,685.00) |
| | | Advertised Value: | \$299,705.14 |



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timber description

Location: Portions of Sections 13 and 23, T24S, R12W, W.M., Coos County, Oregon.

Stand Stocking: 60%

| SpecieName | AvgDBH | Amortization (%) | Recovery (%) |
|-----------------------|--------|------------------|--------------|
| Douglas - Fir | 27 | 0 | 90 |
| Western Hemlock / Fir | 30 | 0 | 90 |
| Red Cedar | 35 | 0 | 90 |
| Alder (Red) | 14 | 0 | 95 |

| Volume by Grade | (10" - 11" | (8" - 9") 4 | 2S 12"+ | 3P | 3S | 3S 10" - " | 3S 12"+ | 6" - 7" | Total |
|-----------------------|------------|-------------|---------|----|-----|------------|---------|---------|-------|
| Douglas - Fir | 0 | 0 | 1,000 | 21 | 185 | 0 | 739 | 0 | 1,945 |
| Western Hemlock / Fir | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 5 |
| Red Cedar | 0 | 0 | 0 | 0 | 0 | 2 | 6 | 0 | 8 |
| Alder (Red) | 105 | 93 | 93 | 0 | 0 | 0 | 0 | 114 | 405 |
| Total | 105 | 93 | 1,093 | 21 | 190 | 2 | 745 | 114 | 2,363 |



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comments: Pond Values Used: 1st Quarter Calendar Year 2009.

Regeneration harvest of approximately 72 net acres of 97 year-old mature second growth and 33-64 year-old Douglas-fir sawtimber with a component of red alder, western redcedar and western hemlock.

SCALING COST ALLOWANCE = \$5.00/MBF

FUEL COST ALLOWANCE = \$3.00/Gallon

HAULING COST ALLOWANCE

Hauling costs equivalent to \$700 daily truck cost.

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

FELLING

Felling of Unmerch Material: 300 MBF @ \$1 per MBF = \$300

Directional Felling: 700 MBF @ \$2 per MBF = \$1,400

YARDING & LOADING

Locate Corridors and Skid Roads: 14 MBF @ \$5 per MBF = \$70

Artificial Guyline Supports: 4 anchors @ \$500/each = \$2,000

Brand and Paint Logs: 2,363 MBF @ \$1 per MBF = \$2,363

Loader Time for Firewood Stacking: 8 hours @ \$75/hour = \$600

SNAG CREATION

Tree Topping: 13 trees @ \$100/each = \$1,300

Tree Girdling: 13 trees @ \$20/each = \$260

MISCELLANEOUS COSTS

Additional Fire Equipment: 1 season @ \$1,000 per season = \$1,000

TOTAL Other Costs (with Profit & Risk to be added) = \$9,293

Other Costs (No Profit & Risk added):

None.



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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% | |
| yarding distance: | Long (1,500 ft) | downhill yarding: | No |
| logging system: | Cable: Large Tower >=70 | Process: | Manual Delimiting |
| tree size: | Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF | | |
| loads / day: | 12.0 | bd. ft / load: | 5,000 |
| cost / mbf: | \$61.56 | | |
| machines: | Log Loader (A) Tower Yarder (Large) | | |



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logging costs

| | | | |
|--------------------|-------------|--------------------|------------|
| Operating Seasons: | 1.00 | Profit Risk: | 10.00% |
| Project Costs: | \$65,685.00 | Other Costs (P/R): | \$9,293.00 |
| Slash Disposal: | \$0.00 | Other Costs: | \$0.00 |

Miles of Road

Road Maintenance: \$0.00

| Dirt | Rock (Contractor) | Rock (State) | Paved |
|------|-------------------|--------------|-------|
| 1.0 | 0.0 | 3.0 | 0.0 |

Hauling Costs

| Species | \$ / MBF | Trips/Day | MBF / Load |
|-----------------------|----------|-----------|------------|
| Douglas - Fir | \$0.00 | 3.0 | 5.0 |
| Western Hemlock / Fir | \$0.00 | 3.0 | 5.0 |
| Red Cedar | \$0.00 | 3.0 | 5.0 |
| Alder (Red) | \$0.00 | 3.0 | 3.5 |



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Local Pond Values

| Date | Specie | Grade | Value |
|--------|-----------------------|----------------|----------|
| 6/8/09 | Douglas - Fir | 3P | \$520.00 |
| 6/8/09 | Douglas - Fir | 2S 12"+ | \$335.00 |
| 6/8/09 | Douglas - Fir | 3S | \$310.00 |
| 6/8/09 | Douglas - Fir | 3S 12"+ | \$165.00 |
| 6/8/09 | Western Hemlock / Fir | 3S | \$245.00 |
| 6/8/09 | Red Cedar | 3S 10" - 11" | \$710.00 |
| 6/8/09 | Red Cedar | 3S 12"+ | \$710.00 |
| 6/8/09 | Alder (Red) | 2S 12"+ | \$425.00 |
| 6/8/09 | Alder (Red) | (10" - 11") 3S | \$400.00 |
| 6/8/09 | Alder (Red) | (8" - 9") 4S | \$390.00 |
| 6/8/09 | Alder (Red) | 6" - 7" | \$350.00 |



Timber Sale Appraisal
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"STEWARDSHIP IN FORESTRY"

District: Coos

Date: June 08, 2009

logging costs breakdown

| Logging | Road Maint | Fire Protect | Hauling | Other P/R appl | Profit & Risk | Slash Disposal | Scaling | Other | Total |
|------------------------------|------------|--------------|---------|----------------|---------------|----------------|---------|--------|----------|
| Douglas - Fir | | | | | | | | | |
| \$61.56 | \$3.37 | \$1.86 | \$46.66 | \$3.93 | \$11.74 | \$0.00 | \$5.00 | \$0.00 | \$134.12 |
| Western Hemlock / Fir | | | | | | | | | |
| \$61.56 | \$3.37 | \$1.86 | \$46.66 | \$3.93 | \$11.74 | \$0.00 | \$5.00 | \$0.00 | \$134.12 |
| Red Cedar | | | | | | | | | |
| \$61.56 | \$3.37 | \$1.86 | \$46.66 | \$3.93 | \$11.74 | \$0.00 | \$5.00 | \$0.00 | \$134.12 |
| Alder (Red) | | | | | | | | | |
| \$61.56 | \$3.21 | \$1.86 | \$63.64 | \$3.93 | \$13.42 | \$0.00 | \$5.00 | \$0.00 | \$152.62 |

| Specie | Amortization | Pond Value | Stumpage | Amortized |
|-----------------------|--------------|------------|----------|-----------|
| Douglas - Fir | \$0.00 | \$270.03 | \$135.91 | \$0.00 |
| Western Hemlock / Fir | \$0.00 | \$245.00 | \$110.88 | \$0.00 |
| Red Cedar | \$0.00 | \$710.00 | \$575.88 | \$0.00 |
| Alder (Red) | \$0.00 | \$389.37 | \$236.75 | \$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 |

Unamortized

| Specie | MBF | Value | Total |
|-----------------------|-------|----------|--------------|
| Douglas - Fir | 1,945 | \$135.91 | \$264,344.95 |
| Western Hemlock / Fir | 5 | \$110.88 | \$554.40 |
| Red Cedar | 8 | \$575.88 | \$4,607.04 |
| Alder (Red) | 405 | \$236.75 | \$95,883.75 |

Gross Timber Sale Value

Recovery: \$365,390.14

Prepared by: Gloria Clary

Phone: 541-267-1757

Summary of "Other Costs" for Timber Sale Appraisals

Sale Name: Sullivan Daggett Divide

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 | 300 | \$ 1.00 | \$ 300.00 |
| Directional Felling | MBF | 700 | \$ 2.00 | \$ 1,400.00 |
| Yarding and Loading | | | | |
| Locate Corridors and Skid Roads | MBF | 14 | \$ 5.00 | \$ 70.00 |
| Artificial guyline support | anchor | 4 | \$ 500.00 | \$ 2,000.00 |
| Brand and paint logs | MBF | 2363 | \$ 1.00 | \$ 2,363.00 |
| Loader time for firewood stacking | Hours | 8 | \$ 75.00 | \$ 600.00 |
| Snag Creation | | | | |
| Tree Topping | Trees | 13 | \$ 100.00 | \$ 1,300.00 |
| Tree Girdling | Trees | 13 | \$ 20.00 | \$ 260.00 |
| Miscellaneous Costs | | | | |
| Log Placement in Stream | Crossings | 0 | \$ - | \$ - |
| Additional Fire Equipment | Seasons | 1 | \$ 1,000.00 | \$ 1,000.00 |
| 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 | | | | \$ 9,293.00 |

SUMMARY OF CONSTRUCTION COST
Sullivan Dagget Divide

Project 1: Road and Landing Construction

Points: A to B Length: 280' Type: 14' no ditch

| | | | | | |
|--|----|--------|----------|----------|------------|
| Excavator | 30 | hrs at | \$125.00 | per hour | \$3,750.00 |
| Cat time | 30 | hrs at | \$120.00 | per hour | \$3,600.00 |
| Drill & Shoot | 10 | hrs at | \$250.00 | per hour | \$2,500.00 |
| Dump Truck - haul to Point C (1.0 mi RT) | 30 | hrs at | \$95.00 | per hour | \$2,850.00 |
| Grader | 1 | hrs at | \$75.00 | per hour | \$75.00 |
| Laborer | 30 | hrs at | \$35.00 | per hour | \$1,050.00 |

Total Project 1: \$13,825.00

Move-in (Includes time to move between units)

| Equipment | Miles | hrs/RT | Lowboy Rate/hr | Total |
|--------------|-------|--------|-------------------|----------|
| Excavator | 25 | 4.5 | \$95.00 | \$427.50 |
| Cat | 25 | 4.5 | \$95.00 | \$427.50 |
| Drill & Comp | 25 | 3 | \$95.00 | \$285.00 |
| Grader | 25 | 4 | \$95.00 | \$380.00 |
| Dump Truck | 25 | 4 | \$95.00 | \$380.00 |

Total Move-in: \$1,900.00

Project 1 Total \$15,725.00

Project 2A: Road and Landing Improvement

Points: D to E Length: 1450' Type: 14' no ditch

| | | | | | |
|--|---|--------|----------|----------|----------|
| Excavator - pickup slides/slough (200 yds) | 5 | hrs at | \$125.00 | per hour | \$625.00 |
| Dump Truck - haul to Points D to F | 5 | hrs at | \$95.00 | per hour | \$475.00 |
| Grader time | 1 | hrs at | \$75.00 | per hour | \$75.00 |
| Laborer | 5 | hrs at | \$35.00 | per hour | \$175.00 |

Total Project 2A: \$1,350.00

Project 2B: Road and Landing Improvement

Points: D to F Length: 850' Type: 14' no ditch

| | | | | | |
|---|---|--------|----------|----------|----------|
| Cat time - shape waste material & landing | 5 | hrs at | \$120.00 | per hour | \$600.00 |
| Grader time | 1 | hrs at | \$75.00 | per hour | \$75.00 |
| Laborer | 5 | hrs at | \$35.00 | per hour | \$175.00 |

Total Project 2B: \$850.00

Project 2 Total \$2,200.00

SUMMARY OF CONSTRUCTION COST
Sullivan Dagget Divide

Project 3A: Rock Stockpile

Location: Sullivan I (3.2 mi on 3000)
 Measured amount: 1200 cu yds
 Size: 3/4" - 0"

| | | |
|------------------------------------|---------------|------------|
| Cost per cu yd at crusher: | \$14.23 | per yd |
| Haul cost per cu yd (1.1 hr RT): | \$4.89 | per yd |
| Piling and shaping cost per cu yd: | <u>\$2.00</u> | per yd |
| Total cost per cu yd: | \$21.12 | per yd |
| Total cu yds: | 1200 | yards |

Total Cost for Stockpile rock: \$25,344.00

Total Project 3A: \$25,344.00

Project 3B: Rock Stockpile

Location: Sullivan II (3.7 mi on 3000)
 Measured amount: 1200 cu yds
 Size: 1 1/2" - 0"

| | | |
|------------------------------------|---------------|------------|
| Cost per cu yd at crusher: | \$12.24 | per yd |
| Haul cost per cu yd (1.0 hr RT): | \$4.44 | per yd |
| Piling and shaping cost per cu yd: | <u>\$2.00</u> | per yd |
| Total cost per cu yd: | \$18.68 | per yd |
| Total cu yds: | 1200 | yards |

Total Cost for Stockpile rock: \$22,416.00

Total Project 3B: \$22,416.00

Project 3 Total \$47,760.00

Total Project Costs \$65,685.00

TIMBER SALE SUMMARY

Sullivan Daggett Divide

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 paint, and red flagging at locations shown on the Exhibit A.
3. **Revenue Distribution:** 83.25% CSL and 16.75% BOF; 100% Coos County.
4. **Sale Acreage:** The total sale area is 72 net acres. Buffer areas are posted outside the sale area and are not included in the net acreage calculation. The acreage was determined using orthophoto imagery on the ARCVIEW Geographic Information System program.
5. **Volume by Species, Fund, and County:** See attached table.
6. **Grade by Percent:**

| Species | 3 Peeler | S M | 2 Saw (12"+) | 3 Saw (12"+) | 3 Saw (10-11") | 4 Saw (8-9") | (6-7") |
|----------------------|----------|------|-----------------|-----------------|-------------------|-----------------|--------|
| Douglas-fir | 1 % | ---- | 51 % | 38 % | 10 % | ---- | ---- |
| Red Alder | ---- | ---- | 23 % | ---- | 26 % | 23 % | 28 % |
| Western Red Cedar | ---- | ---- | ---- | 80 % | 20 % | ---- | ---- |
| Western Hemlock | ---- | ---- | ---- | 100 % | ---- | ---- | ---- |
| Sitka Spruce | ---- | ---- | ---- | ---- | ---- | ---- | ---- |

7. **Cruise:** The unit was variable plot cruised using the Big BAF cruise design, which consisted of 98 nested plots. For the mature stand each plot consists of both a full 40 BAF count plot and a full 250 BAF measure plot. The 40 BAF plot was used to tally the number of trees by species to determine the stand basal area. The 40 BAF plot was then used to select hardwoods and minor species to cruise and the 250 BAF plot to select Douglas-fir trees to cruise. Selected trees were cruised for diameter at breast height, height, grade and defect. Forty-nine Douglas-fir Big BAF trees were cruised for diameter, height, grade and defect. The cruise was analyzed using the SuperACE cruising program.

A. Cruise Summary Data:

| Diameter | Top Diameter | Form Point | Form Factor | CV % | SE % |
|----------|-----------------|-------------------------------|---------------------------------------|---------|---------|
| D4H | Total Height | Conifer: 16' Hardwood: 16' | Estimated or measured on all trees | 35.9 | 8.05 |

B. Stand Summary:

| Species | D4H | Trees per Acre | Basal Area (ft ² /ac) | BF per acre |
|----------------------|-----|----------------|-------------------------------------|-------------|
| Douglas-fir | 27 | 33 | 139 | 27,013 |
| Red Alder | 14 | 98 | 97 | 5,625 |
| Western Red Cedar | 35 | 1 | 1.6 | 111 |
| Western Hemlock | 30 | 1 | 1 | 69 |

C. Green Tree Retention Summary: Most green trees were posted outside of the timber sale, except scattered trees which will be removed from the cruise. These scattered trees are marked with a "W" in red.

8. **Timber Description:** The timber sale has three stands that are moderately stocked of approximately 54 to 97 year old second growth and 33 year old third growth Douglas-fir, of good to average quality, with red alder, Sitka spruce and western hemlock in the understory. Conifers range from 70 to 188 feet tall while hardwoods average 52 feet.

9. **Topography:** The unit ranges from 15% to 75% slope. There are large areas where topography is between 15% to 30 % slope in Area 1 with typical steeper stream drainages. Area 2 is predominately over 60% slope.

10. **Logging Method:** The sale will be cable logged uphill with single-end suspension over the unit; full suspension will be required over designated streams and RMAs. A motorized carriage will be required to obtain the necessary suspension. Tail trees may need to be placed for yarding the sale area as approved in the operations plan.

11. **Access:** From Coos Bay, proceed north on Highway 101, turn on North Bay Road for 2 miles, then proceed on Larson Way for approximately 3 miles to the 3000 Rd., then proceed 3 1/2 miles to project point A.

12. **Projects:**

Project No. 1: Road and Landing Construction

Project No. 2: Road Improvement

Project No. 3: Rock Stockpiles

NET VOLUMES AND ACREAGE

| SALE AREA & SPECIES | | Tree cnt. 100% Units | NET VOLUMES (MBF) | | | | | | | |
|---------------------|---------|----------------------|--------------------|-------|-----|---------|-------|------|-------------|---------------|
| | | | By County and Fund | | | | | | Total Vols. | Vol. per Acre |
| | | | Coos | | | Douglas | | | | |
| Area | Spec | CSL | BOF | Total | CSL | BOF | Total | | | |
| I-II | D-fir | 1620 | 325 | 1945 | | | 0 | 1945 | 22.44 | |
| | Hdwd | 338.00 | 67 | 405 | | | 0 | 405 | 4.68 | |
| | Cedar | 8 | | 8 | | | 0 | 8 | 0.11 | |
| | Spruce | 0 | | 0 | | | 0 | 0 | 0.00 | |
| | Hemlock | 5 | | 5 | | | 0 | 5 | 0.07 | |
| TOTALS | | 1971 | 392 | 2363 | 0 | 0 | 0 | 2363 | | |

TOTAL SALE VOLUME BY SPECIES

| | | |
|-------------|------|-----|
| Douglas-fir | 1945 | MBF |
| Hemlock | 5 | MBF |
| Cedar | 8 | MBF |
| Spruce | 0 | |
| Hardwoods | 405 | MBF |
| Total | 2363 | MBF |

Report by: Sullivan Daggett Divide

Date: 02/09/2009

Unit For. Norma White April 24, 09
Date

Asst. Dist. For. Doug Kreimeyer 6.1.2009
Date

**UTILITY VOLUME NOT SHOWN TO PROVIDE FOR RETENTION OF DOWN LOGS
NO INGROWTH INCLUDED**

ACREAGE BY COUNTY (to nearest acre)

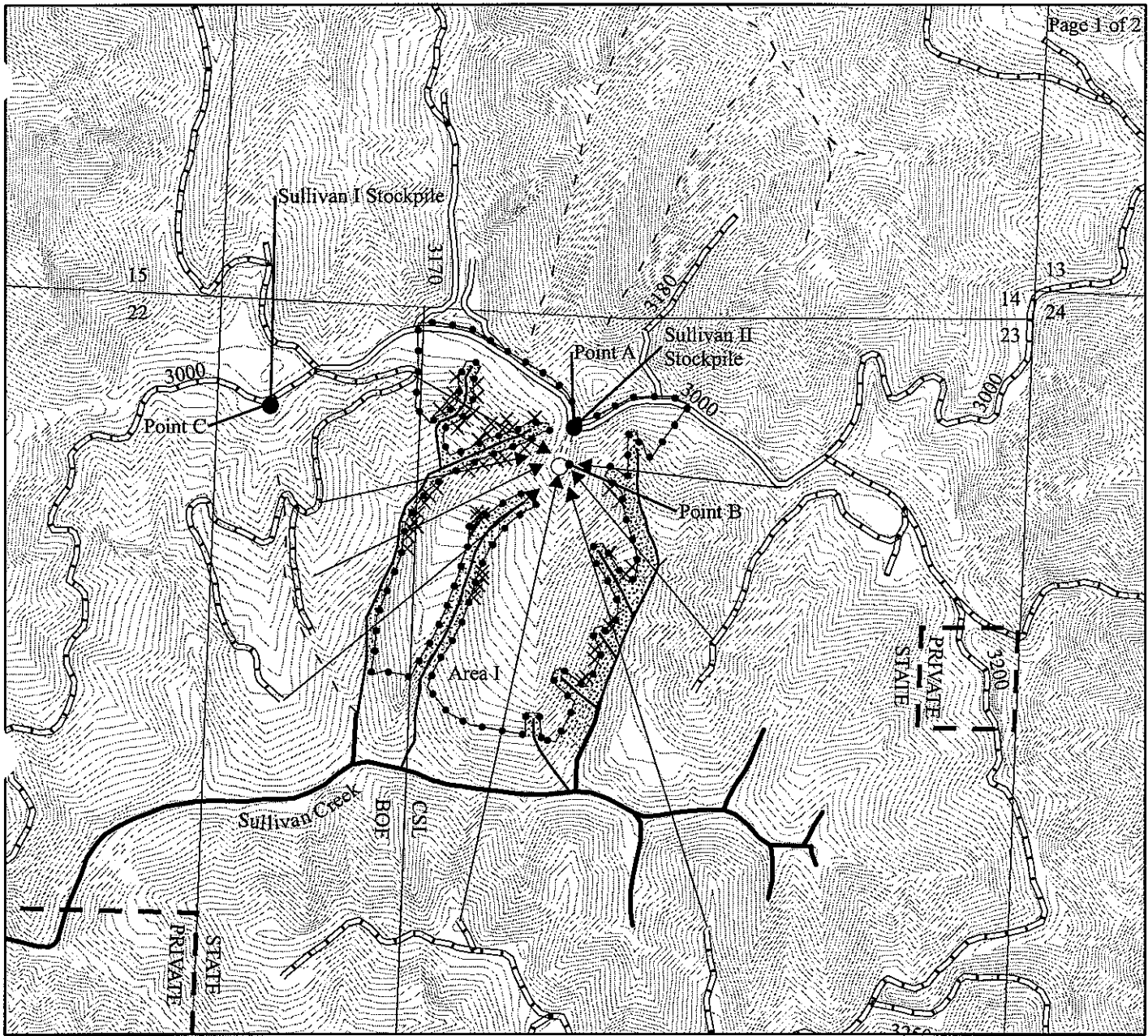
| Sale Area | Coos County | | | | | | Douglas County | | | | | | TOTAL ACRES |
|------------|-------------|----|-----------|---------|----|------------|----------------|----|------------|---------|----|------------|-------------|
| | CSL | | | BOF | | | CSL | | | BOF | | | |
| | Conifer | | Hard wood | Conifer | | Hard woods | Conifer | | Hard woods | Conifer | | Hard woods | |
| | cc | pc | | cc | pc | | cc | pc | | cc | pc | | |
| I | 48.5 | | | 10.59 | | 1.5 | | | | | | | 60.59 |
| II | 11.61 | | | | | | | | | | | | 11.61 |
| | | | | | | | | | | | | | 0 |
| | | | | | | | | | | | | | 0 |
| SUM | 60.11 | 0 | 0 | 10.59 | 0 | 1.5 | 0 | 0 | 0 | 0 | 0 | 0 | 72.2 |

cc- clearcut

pc- partial cut

BOF - Board of Forestry

CSL - Common School Land



Legend

- Landing
- Posted Sale Boundary
- Project Point
- Roads**
- Purchaser Maintained Road
- State Maintained Road
- Yarding Corridor
- New Road Construction
- Elliott State Forest Boundary
- Streams**
- Type F
- Type N Perennial
- Type N Seasonal
- Stream Buffer
- Green Tree Retention Single
- Green Tree Retention Group
- Contours: 20 Foot

APPROXIMATE ACREAGE

| | |
|--------------|-----------|
| AREA I | 61 |
| AREA II | 11 |
| TOTAL | 72 |

LOGGING PLAN

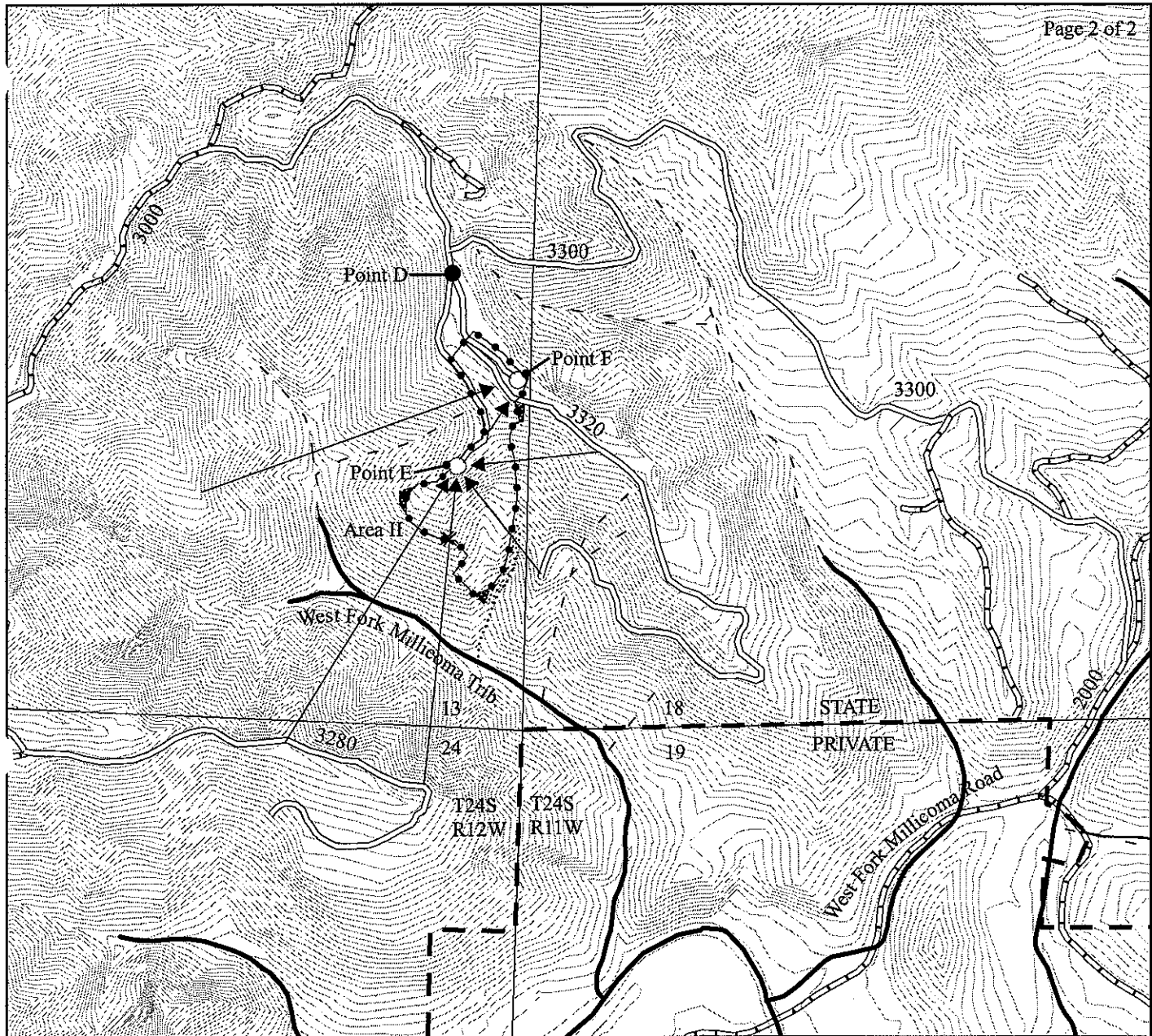
SULLIVAN DAGGETT DIVIDE
 341-10-32
 PORTIONS OF SECTIONS 13 AND 23
 T24S, R12W
 COOS COUNTY, OREGON
 APPROXIMATELY 72 NET HARVEST ACRES



APPROX. SCALE: 1" = 1000'



This product is for informational use and may not have been prepared for, or suitable for legal, engineering, or surveying purposes.



Legend

- Landing
- Posted Sale Boundary
- Project Point
- Roads**
- Purchaser Maintained Road
- State Maintained Road
- Yarding Corridor
- New Road Construction
- Elliott State Forest Boundary
- Streams**
- Type F
- Type N Perennial
- Type N Seasonal
- Stream Buffer
- Green Tree Retention Single
- Green Tree Retention Group
- Contours: 20 Foot

APPROXIMATE ACREAGE

| | |
|--------------|-----------|
| AREA I | 61 |
| AREA II | 11 |
| TOTAL | 72 |

LOGGING PLAN

SULLIVAN DAGGETT DIVIDE
 341-10-32
 PORTIONS OF SECTIONS 13 AND 23
 T24S, R12W
 COOS COUNTY, OREGON
 APPROXIMATELY 72 NET HARVEST ACRES



APPROX. SCALE: 1" = 1000'



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