"STEWARDSHIP IN FORESTRY"

# Timber Sale Appraisal
# Biker Baber
# Sale 341-09-02

**District:** West Oregon **Date:** October 09, 2008

## cost summary

| | Conifer | Hardwood | Total |
|---|---|---|---|
| **Gross Timber Sale Value** | $785,102.50 | $68,621.07 | $853,723.57 |
| | | **Project Work:** | $(83,311.00) |
| | | **Advertised Value:** | $770,412.57 |

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**District:** **West Oregon** **Date:** **October 09, 2008**

## timber description

**Location:** Portions of Section 16, T11S, R9W, W.M., Lincoln County, Oregon.

**Stand Stocking:** 80%

| SpecieName | AvgDBH | Amortization (%) | Recovery (%) |
|---|---|---|---|
| Douglas - Fir | 29 | 0 | 98 |
| Alder (Red) | 21 | 0 | 98 |

| Volume by Grade | 2S | 3S | 4S | Camprur | SM | Total |
|---|---|---|---|---|---|---|
| Douglas - Fir | 2,133 | 222 | 93 | 0 | 17 | 2,465 |
| Alder (Red) | 0 | 0 | 0 | 147 | 0 | 147 |
| Total | 2,133 | 222 | 93 | 147 | 17 | 2,612 |

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**District: West Oregon** **Date: October 09, 2008**

**comments:**

Pond Values Used: 3rd Quarter Calendar Year 2008

Western Hemlock and Other Conifers Stumpage Price = $80/MBF

Western Red Cedar Stumpage Price = Pond Value minus Logging Cost
$807/MBF = $955/MBF - $148/MBF

SCALING COST ALLOWANCE = $5.00/MBF

FUEL COST ALLOWANCE = $4.50/Gallon

HAULING COST ALLOWANCE
Hauling costs equivalent to $700 daily truck cost.

Other Costs (with Profit & Risk to be added):
Artificial Tailhold Anchors: 8 x $250/anchor = $2,000
TOTAL Other Costs (with Profit and Risk to be added) =$2,000

Other Costs (No Profit & Risk to be added):
Firewood Sorting: 4 hrs x $110/hr = $440
Fire Trail Construction: 7,895ft @ $0.80/ft = $6,316
Slash Throwback: 3,210ft @ $0.25/ft = $803
Wildlife Tree Throwback: 60 trees @ $3.75/tree = $225
Snag Creation: 28 snags @ $75/snag = $2,100
Down Wood Creation: 55 trees - 2 days timber faller @ $300/day = $600
Administrative Fee = $1,000
License Fee = $1,000
Applicatin Fee = $545
TOTAL Other Costs (No Profit & Risk added) = $13,209

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**District: West Oregon** **Date: October 09, 2008**

## logging conditions

| | | | |
|---|---|---|---|
| **combination#: 1** | Douglas - Fir | 100.00% | |
| | Alder (Red) | 100.00% | |
| **yarding distance:** | Medium (800 ft) | **downhill yarding:** | No |
| **logging system:** | Cable: Large Tower >=70 | **Process**: | Manual Falling/Delimbing |
| **tree size:** | Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF | | |
| **loads / day:** | 10.0 | **bd. ft / load:** | 5,000 |
| **cost / mbf:** | $73.87 | | |

**machines:** Log Loader (A)
Tower Yarder (Large)

"STEWARDSHIP IN FORESTRY"

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**District:** West Oregon **Date:** October 09, 2008

## logging costs

| | | | |
|---|---|---|---|
| **Operating Seasons:** | 1.00 | **Profit Risk:** | 12.00% |
| **Project Costs:** | $83,311.00 | **Other Costs (P/R):** | $2,000.00 |
| **Slash Disposal:** | $0.00 | **Other Costs:** | $13,209.00 |

### Miles of Road

**Road Maintenance:** $0.00

| Dirt | Rock (Contractor) | Rock (State) | Paved |
|---|---|---|---|
| 0.0 | 4.0 | 0.0 | 0.0 |

### Hauling Costs

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

"STEWARDSHIP IN FORESTRY"

# Timber Sale Appraisal
# Biker Baber
# Sale 341-09-02

**District: West Oregon** **Date: October 09, 2008**

## logging costs breakdown

| Logging | Road Maint | Fire Protect | Hauling | Other P/R appl | Profit & Risk | Slash Disposal | Scaling | Other | Total |
|---|---|---|---|---|---|---|---|---|---|
| **Douglas - Fir** | | | | | | | | | |
| $73.87 | $4.16 | $1.68 | $42.50 | $0.77 | $14.76 | $0.00 | $5.00 | $5.06 | $147.80 |
| **Alder (Red)** | | | | | | | | | |
| $73.87 | $4.16 | $1.68 | $60.71 | $0.77 | $16.94 | $0.00 | $5.00 | $5.06 | $168.19 |

| Specie | Amortization | Pond Value | Stumpage | Amortized |
|---|---|---|---|---|
| Douglas - Fir | $0.00 | $466.30 | $318.50 | $0.00 |
| Alder (Red) | $0.00 | $635.00 | $466.81 | $0.00 |

"STEWARDSHIP IN FORESTRY"

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**District:** West Oregon **Date:** October 09, 2008

## summary

**Amortized**

| Specie | MBF | Value | Total |
|---|---|---|---|
| Douglas - Fir | 0 | $0.00 | $0.00 |
| Alder (Red) | 0 | $0.00 | $0.00 |

**Unamortized**

| Specie | MBF | Value | Total |
|---|---|---|---|
| Douglas - Fir | 2,465 | $318.50 | $785,102.50 |
| Alder (Red) | 147 | $466.81 | $68,621.07 |

**Gross Timber Sale Value**

**Recovery:** $853,723.57

**Prepared by:** Blake Mckinley **Phone:** 541-929-3266

## SUMMARY OF ALL PROJECT COSTS

**Sale Name:** Biker Baber

Date: July 2008
Time: 11:48

**Project #1 - Improvements**

| Road Segment | Length | Cost | |
|---|---|---|---|
| A to B | 123.9 sta | $6,542 | |
| B to C | 47.5 sta | $26,782 | |
| C to D | 40.7 sta | $10,600 | |
| D to E | 11.2 sta | $5,683 | |
| **TOTALS** | 223.3 sta | | $49,607 |

**Project #2 - Flatcar Bridge** $31,083

Point F

| **Move in** | Cost | On-site move | |
|---|---|---|---|
| Grader, Cat 14-G or equiv. | $304 | | |
| Water Truck | $199 | | |
| Backhoe | $304 | $50 | |
| Vibratory roller | $304 | $50 | |
| Excavator ( Cat 225 or equivalent) | $672 | | |
| Dozer (D7 or equivalent) | $488 | $250 | |
| **TOTAL** | | | $2,621 |

**GRAND TOTAL** **$83,311**

Compiled by J. Doyal Date 07/16/2008

## SUMMARY OF CONSTRUCTION COST

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| SALE | Biker Baber | Project #1 | | LENGTH | improve | | 123.9 sta |
| ROAD | A to B | | | | | | |

**IMPROVEMENT**

| | | | | | | |
|---|---|---|---|---|---|---|
| Shape surface (with road grader) | 123.9 sta. | @ | $12.28 | /sta | = | $1,521 |

TOTAL IMPROVEMENT $1,521

**SURFACING**

| | | | Size | Cost/yd | | |
|---|---|---|---|---|---|---|
| Spot rock | 234 | cy of | 1½-0" | $20.38 | = | $4,769 |

TOTAL ROCK COST = $4,769

**SPECIAL PROJECTS**

| | | | | | | |
|---|---|---|---|---|---|---|
| Clean out culverts (inlets and outlets) | 11 | culverts | @ | $22.92 | ea. = | $252 |

TOTAL SPECIAL PROJECTS COST = $252

Compiled by: J. Doyal
Date: Jul 16, 2008

**GRAND TOTAL =====>** **$6,542**

## SUMMARY OF CONSTRUCTION COST

| | | | | | | |
|---|---|---|---|---|---|---|
| SALE | Biker Baber | Project #1 | LENGTH | improve | | 47.5 sta |
| ROAD | B to C | | | | | |

**IMPROVEMENT**

| | | | | | | |
|---|---|---|---|---|---|---|
| Shape surface (with road grader) | 47.5 sta. | @ | $8.84 | /sta | = | $420 |

TOTAL IMPROVEMENT $420

| **SURFACING** | | | Size | Cost/yd | | |
|---|---|---|---|---|---|---|
| Surface rock (4"lift) | 1045 | cy of | 1½-0" | $21.88 | = | $22,865 |
| Curve widening rock | 107 | cy of | 1½-0" | $21.88 | = | $2,341 |
| Turnout rock (3) | 54 | cy of | 2½-0" | $21.40 | = | $1,156 |

TOTAL ROCK COST = $26,362

Compiled by: J. Doyal
Date: Jul 16, 2008

**GRAND TOTAL =====>** **$26,782**

## SUMMARY OF CONSTRUCTION COST

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| SALE ROAD | Biker Baber C to D | Project #1 | | LENGTH | improve | | 40.7 sta |

**IMPROVEMENT**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Shape surface (with road grader) | 40.7 sta. | @ | $8.84 | /sta | = | $360 | |
| | | | | TOTAL IMPROVEMENT | | | $360 |

| **SURFACING** | | | Size | Cost/yd | | | |
|---|---|---|---|---|---|---|---|
| Surface rock (4"lift) (20+50 to Pt. D) | 444 | cy of | 1½-0" | $21.88 | = | $9,715 | |
| Curve widening rock | 24 | cy of | 1½-0" | $21.88 | = | $525 | |
| | | | | TOTAL ROCK COST = | | | $10,240 |

Compiled by: J. Doyal
Date: Jul 16, 2008

**GRAND TOTAL =====>** **$10,600**

## SUMMARY OF CONSTRUCTION COST

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| SALE | Biker Baber | Project #1 | | LENGTH | improve | | 11.2 sta |
| ROAD | D to E | | | | | | |

**IMPROVEMENT**

| | | | | | | |
|---|---|---|---|---|---|---|
| Shape subgrade (with road grader) | 11.2 sta. | @ | $8.84 | /sta | = | $99 |

TOTAL IMPROVEMENT $99

| **SURFACING** | | | Size | Cost/yd | | |
|---|---|---|---|---|---|---|
| Surface rock (4" lift) (0+00 to 6+60) | 144 | cy of | 1 1/2-0" | $21.88 | = | $3,151 |
| Surface rock (2"lift) (6+60 to Pt. E) | 54 | cy of | 3/4-0" | $22.07 | = | $1,192 |
| Landing rock | 54 | cy of | jaw-run | $22.99 | = | $1,241 |

TOTAL ROCK COST = $5,584

Compiled by: J. Doyal
Date: Jul 16, 2008

**GRAND TOTAL =====>** **$5,683**

## SUMMARY OF CONSTRUCTION COST

SALE Biker Baber Project #2 Flatcar Bridge
ROAD Point F

**EXCAVATION**

| | | | | | | |
|---|---|---|---|---|---|---|
| Endhaul | 566 CY | @ | $1.82 | /CY | = | $1,030 |
| (includes excavation) | | | | | | |
| | | | | TOTAL EXCAVATION = | | $1,030 |

**SURFACING**

| | | | Size | Cost/yd | | |
|---|---|---|---|---|---|---|
| Road base rock | 18 | cy of | 2½-0" | $25.35 | = | $456 |
| Bearing pad base rock | 36 | cy of | jaw-run | $24.49 | = | $882 |
| Bearing pad surface rock | 18 | cy of | 1 1/2-0" | $25.83 | = | $465 |
| Rip-rap | 36 | cy of | 24"-6" | $30.09 | = | $1,083 |
| | | | | TOTAL ROCK COST = | | $2,886 |

**MATERIALS AND INSTALLATION**

| | | | | | | |
|---|---|---|---|---|---|---|
| Flatcar bridge with new deck | | | | | = | $18,907 |
| Abutments | | | | | = | $1,700 |
| Delivery | | | | | = | $700 |
| Installation | | | | | = | $5,000 |
| Design | | | | | = | $700 |
| Culvert disposal | | | | | = | $100 |
| Straw | 12 bales | @ | $5 | | = | $60 |
| | | | | TOTAL MATERIALS COST = | | $27,167 |

Compiled by: J. Doyal
Date: Jul 16, 2008

**GRAND TOTAL =====>** **$31,083**

# TIMBER SALE SUMMARY

**Sale Name:** Biker Baber 341-09-02

**Sale Type:** Modified clearcut; recovery; 55 net acres; 18% BOF, 82% CSL

**Sale Area:** Portion of Section 16, T11S, R9W, W.M., Lincoln County, Oregon.

**Access:** From Philomath take Highway 20 west approx. 26 miles to the W.O.W. road. Turn left and proceed 2.1 miles to Baber Butte Road. Turn left and travel approx. 1.7 miles to arrive at the sale location.

**Boundaries:** The timber sale boundary is posted with "Timber Sale Boundary" signs, fluorescent pink flagging, and fluorescent red paint.

**Timber Description:** This one unit sale is a modified clearcut which contains 79 year old Douglas-fir. The average DBH of these trees is 29 inches. There is an older cohort of Douglas fir trees in the stand, most of which have been reserved from cutting. There are red alder and bigleaf maple trees scattered throughout the sale area.

**Topography:** Slopes range from 20% to 70%. The aspect for the area is generally south.

**Streams:** There is a small Type F stream on the south side of the timber sale area. The timber sale boundary has been posted at least 100 feet horizontal distance from the edge of the Type F stream. Two Type N streams begin within the timber sale area and flow south and exit the unit. All trees within 50 feet horizontal distance on either side of the Type N streams are marked with fluorescent red paint and are reserved from cutting.

**Reserve Trees:** All trees marked with fluorescent red paint are reserved from cutting. The reserve tree species include Douglas-fir, red alder, cherry, and bigleaf maple.

**T & E Surveys:** The sale area contains suitable habitat for northern spotted owls and potential habitat for marbled murrelets. The sale was surveyed for northern spotted owls and marbled murrelets in 2007 and 2008 with no detections. However, seasonal operating restrictions will be required due to potential marbled murrelet habitat that was not surveyed to the north of the timber sale area.

**Logging Methods:** 100% of the unit will require cable logging.

**Projects:** No. 1 – Road Improvement 4.2 miles
No. 2 – Flatcar Bridge

**Other Requirements:**
4 hours of firewood sorting on the landing.

**Cruise Summary:**

**MBF Volume**

| Gross Acres | Net Acres | Species | Gross Volume | Net Volume | % Hidden D&B | Final Adjusted Volume |
|---|---|---|---|---|---|---|
| 55 | 55 | Douglas-fir | 2,617 | 2,595 | 5% | 2,465 |
| | | Red Alder | 156 | 155 | 5% | 147 |

**Grade by %**

| Area | Species | SM | 2 Saw | 3 Saw | 4 Saw | CR |
|---|---|---|---|---|---|---|
| Sale Area | Douglas-fir | 1% | 86% | 9% | 4% | 0% |
| | Red Alder | 0% | 0% | 0% | 0% | 100% |

**Cruise Methods:** The area was cruised using variable radius plots and a 40 BAF prism along with a Big BAF of 160. A 2.25 x 2.25 chain grid was laid out in order to sample the area. On each plot, all conifer trees were counted and "take" trees were defined as Douglas-fir not marked with fluorescent red paint. The DBH of all "take" trees was measured and take trees that were determined to be "in" using Big BAF were measured for volume and grade. Every other plot was considered a count plot by counting the number of trees "in" using a 40 BAF prism.

**Tree form:** Form point was at 16 feet. Form factor for each measured conifer was determined using a relaskop and the formula of number of bars at form point divided by number of bars at DBH.

**Measurement Standards:** Heights for Douglas-fir were measured to the nearest foot to a top cruise diameter of 6 inches inside bark or 40% of form point. Diameters were measured at breast height to the nearest inch.

**Grading System:** All trees were graded in a maximum of 40 foot segments unless defect or length to top cruise diameter warranted otherwise.

**Utilization Standards:** For Douglas-fir a minimum log segment of 6 inches in diameter (inside bark) by 12 feet in length was used. Only trees 6 inches DBH and 12 feet in length and larger were cruised.

**Hidden Defect and Breakage:** A hidden D & B of 5% was applied to the net cruised volumes.

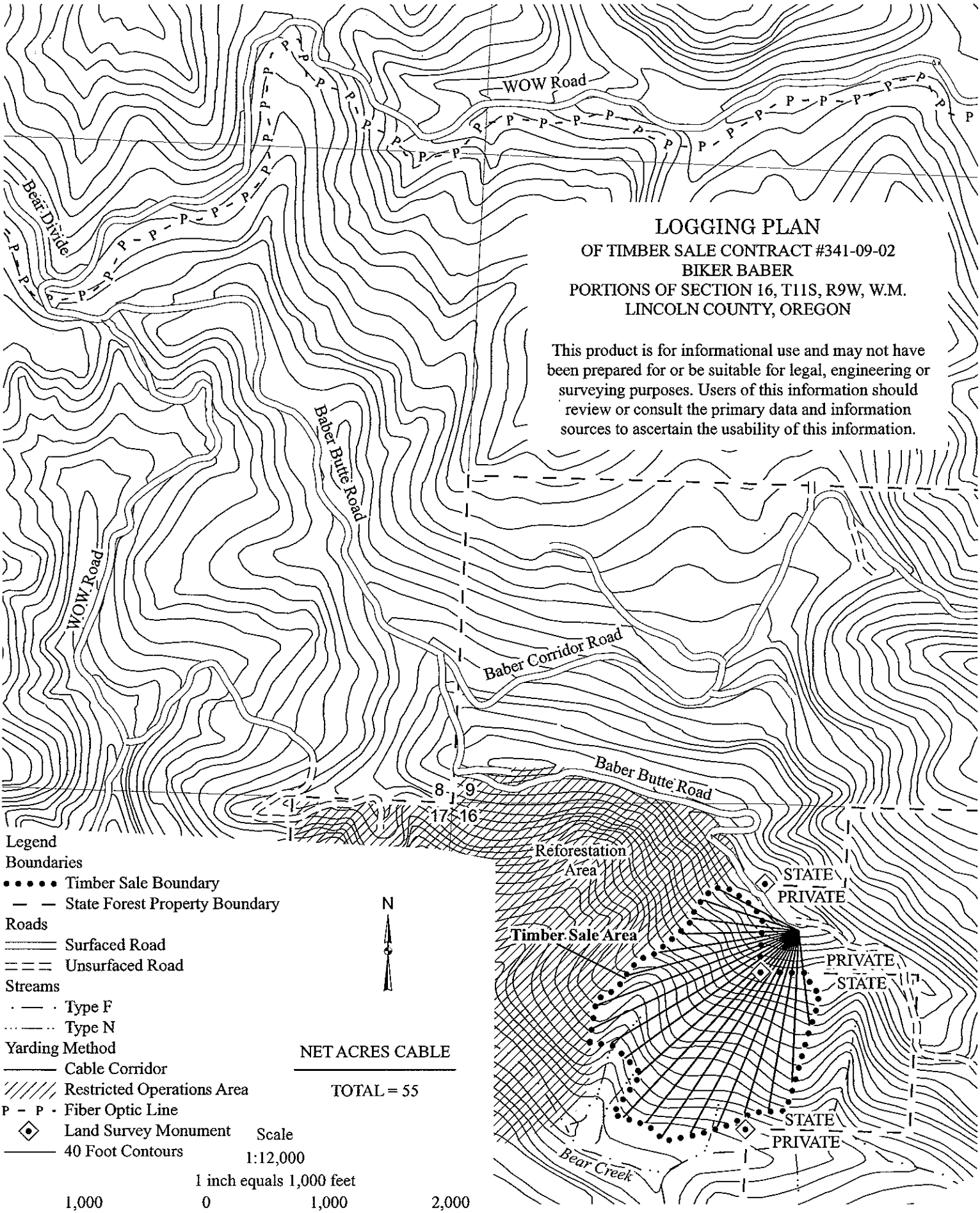
**Computation Procedures:** All cruise data was entered into the SuperAce program and calculated at the district office.

**Cruisers/ Dates:** The sale area was cruised by J. Hayzlett, B. McKinley, D. McMinds, J. Moore, and R. Van Prooyen in March, 2008.

**Signatures:**

Cruise Specialist _____

Unit Forester Dan Bay




# LOGGING PLAN

OF TIMBER SALE CONTRACT #341-09-02
BIKER BABER
PORTIONS OF SECTION 16, T11S, R9W, W.M.
LINCOLN COUNTY, OREGON

This product is for informational use and may not have been prepared for or be suitable for legal, engineering or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of this information.

Legend

Boundaries
- Timber Sale Boundary
- State Forest Property Boundary

Roads
- Surfaced Road
- Unsurfaced Road

Streams
- Type F
- Type N

Yarding Method
- Cable Corridor
- Restricted Operations Area
- Fiber Optic Line
- Land Survey Monument
- 40 Foot Contours

| NET ACRES CABLE |
|---|
| TOTAL = 55 |

Scale
1:12,000
1 inch equals 1,000 feet

1,000 0 1,000 2,000 Feet