



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Cost Summary Spider Jones Sale 341-05-046

District: Tillamook

Date: 11/10/04

| | Conifer | Hardwood | Total |
|------------------------------------|----------------|-------------------------|----------------|
| Gross Timber Sale Value | \$1,506,725.30 | \$67,310.68 | \$1,574,035.98 |
| | | Project Work | (\$356,834.00) |
| | | Advertised Value | \$1,217,201.98 |



Timber Sale Appraisal

Timber Description

Spider Jones

Sale 341-05-046

"STEWARDSHIP IN FORESTRY"

District: Tillamook

Location: Portions of T2N R7W Sections 28,29,30,31,32,33.

Date: 11/10/04

Stand Stocking: 20%

| Species | Avg. DBH | Amortized% | Recovery% |
|---------------|----------|------------|-----------|
| Douglas - Fir | 14 | 0 | 99 |
| Alder (Red) | 14 | 0 | 92 |

| Volume by Grade | Douglas - Fir | Alder (Red) | Total |
|-----------------|---------------|-------------|--------------|
| 2S | 262 | 0 | 262 |
| 3S | 2,978 | 0 | 2,978 |
| 4S | 1,979 | 0 | 1,979 |
| Camprun | 0 | 193 | 193 |
| Total | 5,219 | 193 | 5,412 |

Comments: Pond Values Used: 3rd Quarter 2004.

Additional Costs (Profit and Risk to be added)

Brand and Paint - \$2/MBF x 5412 MBF = \$10,824

Truck assist/swing - \$25mbf x 928 MBF = \$23,200

Total other costs + (P/R) = \$34,024

Additional costs (Profit and Risk Included)

Re-open abandoned rds- 20 stations x \$15/station = \$300

Approach rock Pit-Run - 3 stations x 50 cu.yds x \$6.00/cy = \$900

OHV Blocks 4 Blocks x \$75 per block = \$300

OHV Trail Clearing 115 stations x \$40 station = \$4,600

Dust Abatement 1 season = \$1,400

Ditch pulling and end haul 200 cu yds x \$5.15 = \$1,030

Slash Piling 458 acres x \$2.20 acre = \$1,008

Total other costs = \$9,538

Road Maintenance

Maintenance rock

$(\$4.50/\text{yard} \times 5 \text{ miles} \times 12 \text{ yds/MMBF/mile} \times 5.4\text{MMBF})/5412\text{MBF} = \$0.27/\text{MBF}$

Grading and Compaction

| | \$ / Station | MMBF | Stations | \$/MBF |
|-----------------|--------------|------|----------|--------|
| Move in | \$4.83 | 5.4 | 264 | \$0.24 |
| Water | \$6.75 | 5.4 | 264 | \$0.33 |
| Compaction | \$11.00 | 5.4 | 264 | \$0.54 |
| Interim Grading | \$10.00 | 5.4 | 264 | \$0.49 |
| Final Grading | \$17.00 | 5.4 | 264 | \$0.83 |

Total road maintenance costs = \$2.69

Cedar price = Cedar pond value - Douglas-fir logging costs

$\$752.61/\text{MBF} = \$1050/\text{MBF} - \$297.39/\text{MBF}$



Timber Sale Appraisal

Logging Conditions

Spider Jones

Sale 341-05-046

"STEWARDSHIP IN FORESTRY"

| | | | |
|--------------------------|--|---------|---|
| Combination#: 1 | Douglas - Fir | 96.11% | |
| | Alder (Red) | 100.00% | |
| Yarding Distance: | Medium (800 ft) | | Downhill Yarding: No |
| Logging System: | Cable: Medium Tower >40 - <70 | | Process: Stroke Delimber |
| Tree Size: | Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF | | |
| Loads/Day: | 6 | | Bd. Ft./Load: 3,300 |
| Cost/MBF: | \$180.86 | | |
| Machines: | | | |
| | Log Loader (A) | | |
| | Stroke Delimber (A) | | |
| | Tower Yarder (Medium) | | |
| Combination#: 2 | Douglas - Fir | 3.89% | |
| Yarding Distance: | Short (400 ft) | | Downhill Yarding: Yes |
| Logging System: | Track Skidder | | Process: Manual Falling/Delimiting |
| Tree Size: | Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF | | |
| Loads/Day: | 8 | | Bd. Ft./Load: 3,300 |
| Cost/MBF: | \$131.94 | | |
| Machines: | | | |
| | Log Loader (B) | | |
| | Track Skidder | | |



Timber Sale Appraisal

Logging Costs

Spider Jones

Sale 341-05-046

"STEWARDSHIP IN FORESTRY"

Date: 11/10/04

Operating Seasons: 2.0

Profit & Risk: 15%

Project Costs: \$356,834

Other Costs (P/R): \$34,024

Slash Disposal: \$0

Other Costs: \$9,538

| Miles of Road | | | |
|---------------|----------------------|-----------------|-------|
| Dirt | Rock (Contractor) | Rock (State) | Paved |
| 0.0 | 0.0 | 0.0 | 0.0 |

Road Maintenance: \$2.69

Hauling Costs

| Species | \$/MBF | Trips/Day | MBF/Load |
|---------------|--------|-----------|----------|
| Douglas - Fir | \$0.00 | 2.0 | 3.3 |
| Alder (Red) | \$0.00 | 3.0 | 3.2 |



Timber Sale Appraisal Logging Costs Breakdown Spider Jones Sale 341-05-046

"STEWARDSHIP IN FORESTRY"

| Costs | Douglas - Fir | Alder (Red) |
|--------------------------|---------------|-------------|
| Logging | 178.96 | 180.86 |
| Road Maintenance | 2.72 | 2.92 |
| Fire Protection | 1.00 | 1.00 |
| Hauling | 66.36 | 47.61 |
| Other (P/R appl.) | 6.29 | 6.29 |
| Profit & Risk | 38.30 | 35.80 |
| Slash Disposal | 0.00 | 0.00 |
| Scaling | 2.00 | 0.00 |
| Other | 1.76 | 1.76 |
| Total | 297.39 | 276.24 |

| | | |
|---------------------|--------|--------|
| Amortization | 0.00 | 0.00 |
| Pond Value | 586.09 | 625.00 |
| Stumpage | 288.70 | 348.76 |
| Amortized | 0.00 | 0.00 |



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Summary Spider Jones Sale 341-05-046

Amortized

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

Unamortized

| | Douglas - Fir | Alder (Red) |
|-------|---------------|-------------|
| MBF | 5,219.00 | 193.00 |
| Value | 288.70 | 348.76 |
| Total | 1,506,725.30 | 67,310.68 |

Gross Timber Sale Value

Recovery \$1,574,035.98

Prepared by: Bob Thurman

Date: 11/10/04

District: Tillamook

Phone: (503) 842-2545



PROJECT SUMMARY SHEET

Sale: Spider Jones

IMPROVEMENT

| | | | | |
|-----------------------------|--------|--------|------------|---------------------|
| Point | A to B | 323+45 | stations = | \$174,583.15 |
| Point | C to D | 18+65 | stations = | \$2,871.31 |
| Point | E to F | 216+60 | stations = | \$118,741.57 |
| Point | G to H | 19+10 | stations = | \$11,510.02 |
| SUBTOTAL IMPROVEMENT | | | | \$307,706.05 |

MOVE IN

\$1,274.35

STOCKPILE

| | |
|--|--------------------|
| 1 1/2" - 0" Crushed Rock Stockpile on Cedar Creek Road | \$27,715.49 |
| 1 1/2" - 0" Crushed Rock Stockpile on Elk Wallow Road | \$20,138.52 |
| SUBTOTAL STOCKPILE | \$47,854.01 |

GRAND TOTAL

\$356,834.41

SUMMARY OF CONSTRUCTION COST

| | | | |
|--|---|------------------------------------|---|
| Sale: | <u>Spider Jones</u> | | Road: <u>A to B</u> |
| Construction - | <u>0+00</u> stations <u>0.00</u> miles | | Improvement - |
| | | | <u>323+45</u> stations <u>6.13</u> miles |
| CLEARING AND GRUBBING - | | | |
| Scattering | 0.04 acres @ | \$815.00 per acre = | \$32.60 |
| Piling - waste area | 0.08 acres @ | \$905.00 per acre = | \$72.40 |
| Endhaul | 0.04 acres @ | \$1,500.00 per acre = | \$60.00 |
| | | TOTAL CLEARING AND GRUBBING | \$165.00 |
| EXCAVATION - | | | |
| Slope Stabilization 173+50 to 174+35 | 2.50 hr. @ | \$130.00 hrs. = | \$325.00 |
| Slope Stabilization 322+80 to 323+45 | 1.50 hr. @ | \$130.00 hrs. = | \$195.00 |
| Widening - rippable rock- 259+80 to 261+60 | 469 cy. @ | \$3.20 per c.y.= | \$1,500.80 |
| Lower subgrade elevation- rippable rock- 259+80 to 261+60 | 572 cy. @ | \$3.20 per c.y.= | \$1,830.40 |
| | | TOTAL EXCAVATION | \$3,851.20 |
| ENDHAUL - | | | |
| To waste area @ on Elk Wallow Loop Rd. 259+80 to 261+60 | 1041 cy. @ | \$0.69 per c.y.= | \$718.29 |
| Spread & compact waste area | 1,041 cy. @ | \$0.20 per c.y.= | \$208.20 |
| | | TOTAL ENDHAUL | \$926.49 |
| CULVERTS - MATERIALS & INSTALLATION | | | |
| <u>Culverts</u> | | | |
| 44 LF of 18" | \$649.00 | 0 LF of 24" | \$0.00 |
| 0 LF of 30" | \$0.00 | 0 LF of 36" | \$0.00 |
| 0 LF of 42" | \$0.00 | 0 LF of 48" | \$0.00 |
| 0 LF of 54" | \$0.00 | 0 LF of 60" | \$0.00 |
| 0 LF of 66" | \$0.00 | 0 LF of 72" | \$0.00 |
| | <u>\$649.00</u> | | <u>\$0.00</u> |
| <u>Half Rounds</u> | | | |
| 0 LF of 21" | \$0.00 | 0 LF of 30" | \$0.00 |
| 0 LF of 36" | \$0.00 | 0 LF of 42" | \$0.00 |
| | <u>\$0.00</u> | | <u>\$0.00</u> |
| <u>Culvert Stakes & Markers</u> | | | |
| 0 stakes | \$0.00 | | |
| 1 markers | \$8.00 | | |
| | <u>\$8.00</u> | | |
| | | TOTAL CULVERTS | \$657.00 |
| ROCK- | | | |
| 0+00 to 261+60 | 10,229 cy. of | 1 1/2"-0" @ | \$14.27 per c.y.= \$145,967.83 |
| 299+75 to 300+65 | 40 cy. of | 1 1/2"-0" @ | \$14.27 per c.y.= \$570.80 |
| Slope Stabilization 173+50 to 174+35 | 500 cy. of | Riprap @ | \$17.59 per c.y.= \$8,795.00 |
| Slope Stabilization 322+80 to 323+45 | 250 cy. of | Riprap @ | \$14.77 per c.y.= \$3,692.50 |
| | | | TOTAL ROCK |
| | | | \$159,026.13 |
| SPECIAL PROJECTS | | | |
| Construct waste areas, turnouts, and ditchouts - | 2.5 hours @ | \$130.00 per hour | \$325.00 |
| Geotextile fabric & installation - road subgrade stabilization - | 861 sq. yds. @ | \$0.95 per sq. yd | \$817.95 |
| Grade and shape road - ditch | 300.65 stations @ | \$14.20 per station | \$4,269.23 |
| Roll subgrade w/ vibratory roller prior to rocking - | 300.65 stations @ | \$11.00 per station | \$3,307.15 |
| Grass seed and fertilize - | 2.90 acres @ | \$220.00 per acre | \$638.00 |
| Mulching - 0+00 to 85+00, and ditches within 50 feet of culverts | 1.00 acres @ | \$600.00 per acre | \$600.00 |
| | | TOTAL SPECIAL PROJECTS | \$9,957.33 |
| GRAND TOTAL | | | \$174,583.15 |

SUMMARY OF CONSTRUCTION COST

Sale: Spider Jones

Road: C to D

Construction - 0+00 stations
0.00 miles

Improvement - 18+65 stations
0.35 miles

CLEARING AND GRUBBING -

TOTAL CLEARING AND GRUBBING **\$0.00**

EXCAVATION -

TOTAL EXCAVATION **\$0.00**

ENDHAUL -

TOTAL ENDHAUL **\$0.00**

CULVERTS - MATERIALS & INSTALLATION

Culverts

| | | |
|---|-----------|--------|
| 0 | LF of 18" | \$0.00 |
| 0 | LF of 30" | \$0.00 |
| 0 | LF of 42" | \$0.00 |
| 0 | LF of 54" | \$0.00 |
| 0 | LF of 66" | \$0.00 |
| | | <hr/> |
| | | \$0.00 |

| | | |
|---|-----------|--------|
| 0 | LF of 24" | \$0.00 |
| 0 | LF of 36" | \$0.00 |
| 0 | LF of 48" | \$0.00 |
| 0 | LF of 60" | \$0.00 |
| 0 | LF of 72" | \$0.00 |
| | | <hr/> |
| | | \$0.00 |

Half Rounds

| | | |
|---|-----------|--------|
| 0 | LF of 21" | \$0.00 |
| 0 | LF of 36" | \$0.00 |
| | | <hr/> |
| | | \$0.00 |

| | | |
|---|-----------|--------|
| 0 | LF of 30" | \$0.00 |
| 0 | LF of 42" | \$0.00 |
| | | <hr/> |
| | | \$0.00 |

Culvert Stakes & Markers

| | | |
|---|---------|--------|
| 0 | stakes | \$0.00 |
| 0 | markers | \$0.00 |
| | | <hr/> |
| | | \$0.00 |

TOTAL CULVERTS **\$0.00**

ROCK- 0+00 to 18+65 692 cy. of 3'-0" @ \$3.31 per c.y. = \$2,290.52
TOTAL ROCK **\$2,290.52**

SPECIAL PROJECTS

| | | | | | |
|--|-------|------------|----------|-------------|----------|
| Construct turnouts - | 1.0 | hours @ | \$130.00 | per hour | \$130.00 |
| Grade and shape road - outslope | 18.65 | stations @ | \$9.75 | per station | \$181.84 |
| Roll subgrade w/ vibratory roller prior to rocking - | 18.65 | stations @ | \$11.00 | per station | \$205.15 |
| Grass seed and fertilize - | 0.29 | acres @ | \$220.00 | per acre | \$63.80 |
| | | | | | <hr/> |

TOTAL SPECIAL PROJECTS **\$580.79**

GRAND TOTAL **\$2,871.31**

SUMMARY OF CONSTRUCTION COST

| | | | | |
|-------------------------------------|-------------------------------------|---------------|-----------------------------|--------------------------------------|
| Sale: | <u>Spider Jones</u> | | Road: | <u>E to F</u> |
| Construction - | 0+00 stations <u>0.00</u> miles | | Improvement - | 216+60 stations <u>4.10</u> miles |
| CLEARING AND GRUBBING - | | | TOTAL CLEARING AND GRUBBING | \$0.00 |
| EXCAVATION - | | | TOTAL EXCAVATION | \$0.00 |
| CULVERTS - MATERIALS & INSTALLATION | | | | |
| | <u>Culverts</u> | | | |
| | 0 LF of 18" | \$0.00 | 0 LF of 24" | \$0.00 |
| | 0 LF of 30" | \$0.00 | 0 LF of 36" | \$0.00 |
| | 0 LF of 42" | \$0.00 | 0 LF of 48" | \$0.00 |
| | 0 LF of 54" | \$0.00 | 0 LF of 60" | \$0.00 |
| | 0 LF of 66" | \$0.00 | 0 LF of 72" | \$0.00 |
| | | <u>\$0.00</u> | | <u>\$0.00</u> |
| | <u>Half Rounds</u> | | | |
| | 0 LF of 21" | \$0.00 | 0 LF of 30" | \$0.00 |
| | 0 LF of 36" | \$0.00 | 0 LF of 42" | \$0.00 |
| | | <u>\$0.00</u> | | <u>\$0.00</u> |
| | <u>Culvert Stakes & Markers</u> | | | |
| | 0 stakes | \$0.00 | | |
| | 0 markers | \$0.00 | | |
| | | <u>\$0.00</u> | TOTAL CULVERTS | \$0.00 |
| ROCK- | | | | |
| 0+00 to | 216+60 | 6,278 cy. of | 1 1/2"-0" | @ \$17.94 per c.y.= |
| | | | | <u>\$112,627.32</u> |
| | | | TOTAL ROCK | \$112,627.32 |
| SPECIAL PROJECTS | | | | |
| Construct turnouts - | 2.00 | hours @ | \$130.00 | per hour \$260.00 |
| Grade and shape road - outside | 216.60 | stations @ | \$9.75 | per station \$2,111.85 |
| Roll subgrade w/ vibratory - | 216.60 | stations @ | \$11.00 | per station \$2,382.60 |
| Grass seed and fertilize - | 2.09 | acres @ | \$220.00 | per acre \$459.80 |
| Mulching - all disturbed soil | 1.50 | acres @ | \$600.00 | per acre \$900.00 |
| | | | TOTAL SPECIAL PROJECTS | \$6,114.25 |
| | | | GRAND TOTAL | \$118,741.57 |

SUMMARY OF CONSTRUCTION COST

| | | | | |
|--|---|---------------|-----------------------------|--|
| Sale: | <u>Spider Jones</u> | | Road: | <u>G to H</u> |
| Construction - | <u>0+00</u> stations <u>0.00</u> miles | | Improvement - | <u>19+10</u> stations <u>0.36</u> miles |
| CLEARING AND GRUBBING - | | | TOTAL CLEARING AND GRUBBING | \$0.00 |
| EXCAVATION - | | | TOTAL EXCAVATION | \$0.00 |
| ENDHAUL - | | | TOTAL ENDHAUL | \$0.00 |
| CULVERTS - MATERIALS & INSTALLATION | | | | |
| | <u>Culverts</u> | | | |
| | 0 LF of 18" | \$0.00 | 0 LF of 24" | \$0.00 |
| | 0 LF of 30" | \$0.00 | 0 LF of 36" | \$0.00 |
| | 0 LF of 42" | \$0.00 | 0 LF of 48" | \$0.00 |
| | 0 LF of 54" | \$0.00 | 0 LF of 60" | \$0.00 |
| | 0 LF of 66" | <u>\$0.00</u> | 0 LF of 72" | <u>\$0.00</u> |
| | | \$0.00 | | \$0.00 |
| | <u>Half Rounds</u> | | | |
| | 0 LF of 21" | \$0.00 | 0 LF of 30" | \$0.00 |
| | 0 LF of 36" | <u>\$0.00</u> | 0 LF of 42" | <u>\$0.00</u> |
| | | \$0.00 | | \$0.00 |
| | <u>Culvert Stakes & Markers</u> | | | |
| | 0 stakes | \$0.00 | | |
| | 0 markers | <u>\$0.00</u> | | |
| | | \$0.00 | | |
| | | | TOTAL CULVERTS | \$0.00 |
| ROCK- | | | | |
| 0+00 to | 19+10 | 550 cy. of | 1 1/2"-0" | @ |
| | | | | \$19.69 per c.y.= |
| | | | | <u>\$10,829.50</u> |
| | | | TOTAL ROCK | \$10,829.50 |
| SPECIAL PROJECTS | | | | |
| Construct turnouts - | 0.5 | hours @ | \$130.00 | per hour |
| | | | | \$65.00 |
| Grade and shape road - ditch | 19.10 | stations @ | \$14.20 | per station |
| | | | | \$271.22 |
| Roll subgrade w/ vibratory roller prior to rocking - | 19.10 | stations @ | \$11.00 | per station |
| | | | | \$210.10 |
| Grass seed and fertilize - | 0.31 | acres @ | \$220.00 | per acre |
| | | | | \$68.20 |
| Mulching - 0+00 to 10+00, and ditches within 50 feet of culverts | 0.11 | acres @ | \$600.00 | per acre |
| | | | | \$66.00 |
| | | | TOTAL SPECIAL PROJECTS | \$680.52 |
| | | | GRAND TOTAL | \$11,510.02 |

SUMMARY OF CONSTRUCTION COST

| | | | | | | | | | | | | |
|--|--|--------|-----------------------------|---|-------|--|---------------|---|-----|----------|------|-------|
| Sale: | <u>Spider Jones</u> | | Road: | <u>Stockpile No. 2</u> <u>Stockpile on Elk Wallow Road</u> <u>at 0.66 mile.</u> | | | | | | | | |
| Construction - | <table border="0" style="margin-left: auto; margin-right: auto;"> <tr><td style="text-align: right;">0+00</td><td>stations</td></tr> <tr><td style="text-align: right; border-top: 1px solid black;">0.00</td><td>miles</td></tr> </table> | 0+00 | stations | 0.00 | miles | | Improvement - | <table border="0" style="margin-left: auto; margin-right: auto;"> <tr><td style="text-align: right;">+00</td><td>stations</td></tr> <tr><td style="text-align: right; border-top: 1px solid black;">0.00</td><td>miles</td></tr> </table> | +00 | stations | 0.00 | miles |
| 0+00 | stations | | | | | | | | | | | |
| 0.00 | miles | | | | | | | | | | | |
| +00 | stations | | | | | | | | | | | |
| 0.00 | miles | | | | | | | | | | | |
| CLEARING AND GRUBBING - | | | TOTAL CLEARING AND GRUBBING | \$0.00 | | | | | | | | |
| EXCAVATION - Road Earthwork | 0.00 | sta. @ | \$0.00 per sta. = | \$0.00 | | | | | | | | |
| | | | TOTAL EXCAVATION | \$0.00 | | | | | | | | |
| ENDHAUL - | | | TOTAL ENDHAUL | \$0.00 | | | | | | | | |
| CULVERTS - MATERIALS & INSTALLATION | | | | | | | | | | | | |
| | <u>Culverts</u> | | | | | | | | | | | |
| | 0 LF of 18" | \$0.00 | 0 LF of 24" | \$0.00 | | | | | | | | |
| | 0 LF of 30" | \$0.00 | 0 LF of 36" | \$0.00 | | | | | | | | |
| | 0 LF of 42" | \$0.00 | 0 LF of 48" | \$0.00 | | | | | | | | |
| | 0 LF of 54" | \$0.00 | 0 LF of 60" | \$0.00 | | | | | | | | |
| | 0 LF of 66" | \$0.00 | 0 LF of 72" | \$0.00 | | | | | | | | |
| | | \$0.00 | | \$0.00 | | | | | | | | |
| | <u>Half Rounds</u> | | | | | | | | | | | |
| | 0 LF of 21" | \$0.00 | 0 LF of 30" | \$0.00 | | | | | | | | |
| | 0 LF of 36" | \$0.00 | 0 LF of 42" | \$0.00 | | | | | | | | |
| | | \$0.00 | | \$0.00 | | | | | | | | |
| | <u>Culvert Stakes & Markers</u> | | | | | | | | | | | |
| | 0 stakes | \$0.00 | | | | | | | | | | |
| | 0 markers | \$0.00 | | | | | | | | | | |
| ROCK- Elk Wallow Road stockpile sit | 1,542 | cy. of | 1 1/2"-0" | @ | | | | | | | | |
| | | | | \$13.06 per c.y.= | | | | | | | | |
| | | | | \$20,138.52 | | | | | | | | |
| | | | TOTAL ROCK | \$20,138.52 | | | | | | | | |
| | | | | | | | | | | | | |
| | | | TOTAL CULVERTS | \$0.00 | | | | | | | | |
| SPECIAL PROJECTS | | | TOTAL SPECIAL PROJECTS | \$0.00 | | | | | | | | |
| | | | GRAND TOTAL | \$20,138.52 | | | | | | | | |

SUMMARY OF CONSTRUCTION COST

| | | | | | | | | | | | |
|--|---|--|--------------------|------|-------|---------------|--|-----|----------|------|-------|
| Sale: <u>Spider Jones</u> | | Road: <u>Stockpile No. 1</u> <u>Stockpile on Cedar Creek Road</u> <u>at Station 96+60 E to F</u> | | | | | | | | | |
| Construction - | <table border="0" style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: right;">0+00</td> <td style="text-align: left;">stations</td> </tr> <tr> <td style="text-align: right; border-top: 1px solid black;">0.00</td> <td style="text-align: left; border-top: 1px solid black;">miles</td> </tr> </table> | 0+00 | stations | 0.00 | miles | Improvement - | <table border="0" style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: right;">+00</td> <td style="text-align: left;">stations</td> </tr> <tr> <td style="text-align: right; border-top: 1px solid black;">0.00</td> <td style="text-align: left; border-top: 1px solid black;">miles</td> </tr> </table> | +00 | stations | 0.00 | miles |
| 0+00 | stations | | | | | | | | | | |
| 0.00 | miles | | | | | | | | | | |
| +00 | stations | | | | | | | | | | |
| 0.00 | miles | | | | | | | | | | |
| CLEARING AND GRUBBING - | | TOTAL CLEARING AND GRUBBING | \$0.00 | | | | | | | | |
| EXCAVATION - Road Earthwork | 0.00 sta. @ | \$0.00 per sta. = | \$0.00 | | | | | | | | |
| | | TOTAL EXCAVATION | \$0.00 | | | | | | | | |
| ENDHAUL - | | TOTAL ENDHAUL | \$0.00 | | | | | | | | |
| CULVERTS - MATERIALS & INSTALLATION | | | | | | | | | | | |
| <u>Culverts</u> | | | | | | | | | | | |
| 0 LF of 18" | \$0.00 | 0 LF of 24" | \$0.00 | | | | | | | | |
| 0 LF of 30" | \$0.00 | 0 LF of 36" | \$0.00 | | | | | | | | |
| 0 LF of 42" | \$0.00 | 0 LF of 48" | \$0.00 | | | | | | | | |
| 0 LF of 54" | \$0.00 | 0 LF of 60" | \$0.00 | | | | | | | | |
| 0 LF of 66" | \$0.00 | 0 LF of 72" | \$0.00 | | | | | | | | |
| | \$0.00 | | \$0.00 | | | | | | | | |
| <u>Half Rounds</u> | | | | | | | | | | | |
| 0 LF of 21" | \$0.00 | 0 LF of 30" | \$0.00 | | | | | | | | |
| 0 LF of 36" | \$0.00 | 0 LF of 42" | \$0.00 | | | | | | | | |
| | \$0.00 | | \$0.00 | | | | | | | | |
| <u>Culvert Stakes & Markers</u> | | | | | | | | | | | |
| 0 stakes | \$0.00 | | | | | | | | | | |
| 0 markers | \$0.00 | | | | | | | | | | |
| | \$0.00 | | | | | | | | | | |
| ROCK- Elk Wallow Road stockpile sit | 1,639 cy. of | 1 1/2"-0" | @ | | | | | | | | |
| | | | \$16.91 per c.y.= | | | | | | | | |
| | | | \$27,715.49 | | | | | | | | |
| | | TOTAL ROCK | \$27,715.49 | | | | | | | | |
| | \$0.00 | TOTAL CULVERTS | \$0.00 | | | | | | | | |
| SPECIAL PROJECTS | | TOTAL SPECIAL PROJECTS | \$0.00 | | | | | | | | |
| | | GRAND TOTAL | \$27,715.49 | | | | | | | | |

ROCK SUMMARY FOR HAUL AND PLACEMENT FROM STOCKPILE

Sale: Spider Jones

Pit: Elk Wallow Stockpile
 Rock: 3"-0"
 Swell: 0.00
 Shrinkage: 0.00
 Drill Pct.: 0%

Location: SE1/4 SE1/4 SEC30 T2N R7W W. M.
 Road: 692 c.y.
 Stockpile: 000 c.y.
 Total Truck Loads: 692 c.y.
 In Place Total: 692 c.y.

Load Rock: \$0.60 /cu.yd. x 692 cu.yds. = \$415.20
 Subtotal \$415.20

Move in loader from crushing site \$9.45
 Subtotal \$9.45

TOTAL PRODUCTION COSTS \$424.65

Base Cost= \$0.61 Per Cu.Yd.

| Road | Haul Cost /cu.yd. | Proc Cost /cu.yd. | Base Cst. /cu.yd. | Cost /cu.yd. | Number Cu. Yds | ROCK COST |
|--------------------|-------------------|-------------------|-------------------|--------------|----------------|----------------------|
| C to D | \$1.40 | \$1.30 | \$0.61 | \$3.31 | 692 | \$2,290.52 |
| Sta. 0+00 to 18+65 | | | | | | |
| Total C.Y. | | | | | 692 | Sub Total \$2,290.52 |

TOTAL ROCKING COSTS \$2,290.52

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

| | | | |
|-------------|--|--------------------|------------------------------|
| Pit: | Crushing Pit - 1 1/2"-0" - 399+70 A to B | Location: | S1/2 Sec. 26, T2N, R8W, W.M. |
| Sale: | Spider Jones | Road & Stockpile: | 20,278 c.y. |
| Swell: | 1.40 | Riprap: | 750 c.y. |
| Shrinkage: | 1.16 | Total Truck Loads: | 21,028 c.y. |
| Drill Pct.: | 100% | In Place Total: | 15,020 c.y. |

Pit Development & cleanup for the 4 development areas on Exhibit A including the following: \$17,077.80
clearing and grubbing, access road construction, end-hauling overburden and other waste,
placing and compacting overburden and waste in Waste Area.

| | | | | |
|---|----------------|---|----------------|---------------|
| Develop crusher site @ Sta. 216+10 on A to B. | | | | \$2,600.00 |
| Drill & Shoot - lifters and down holes: | \$2.45 /cu.yd. | x | 15,020 cu.yds. | = \$36,799.00 |
| Push Rock: | \$0.60 /cu.yd. | x | 21,028 cu.yds. | = \$12,616.80 |
| Load Truck - rock: | \$0.60 /cu.yd. | x | 20,278 cu.yds. | = \$12,166.80 |
| Haul - rock to crusher site: | \$3.27 /cu.yd. | x | 20,278 cu.yds. | = \$66,309.06 |
| Load Crusher: | \$0.60 /cu.yd. | x | 20,278 cu.yds. | = \$12,166.80 |
| Crush 1 1/2"-0" Rock | \$2.50 /cu.yd. | x | 20,278 cu.yds. | = \$50,695.00 |
| Load Truck - Crushed: | \$0.60 /cu.yd. | x | 20,278 cu.yds. | = \$12,166.80 |
| Load Truck - Riprap: | \$1.40 /cu.yd. | x | 750 cu.yds. | = \$1,050.00 |
| Oversize Reduction: | \$4.50 /cu.yd. | x | 631 cu.yds. | = \$2,839.50 |

Subtotal \$226,487.56

| | | | | |
|---|---|---|----------|--------------|
| Move In/Set-up Crusher @ Pt. C | | | | \$4,224.00 |
| Move In and set up Drill and Compressor (7 times) | 7 | @ | \$482.58 | = \$3,378.06 |
| Move in Roller | 1 | @ | \$234.47 | = \$234.47 |
| Move in Grader | 1 | @ | \$144.30 | = \$144.30 |
| Move in D-8 from Pt. B | 1 | @ | \$78.52 | = \$78.52 |
| Move in Loader | 1 | @ | \$374.95 | = \$374.95 |
| Move in Excavator from Pt. B | 1 | @ | \$232.96 | = \$232.96 |
| Move in Trucks | 5 | @ | \$75.15 | = \$375.75 |
| Move in Water Truck | 1 | @ | \$88.33 | = \$88.33 |

Subtotal \$9,131.34

| | | | | | |
|------------|---------|------------|--|-------------------------------|---------------------|
| Base Cost= | \$11.21 | Per Cu.Yd. | | TOTAL PRODUCTION COSTS | \$235,618.90 |
|------------|---------|------------|--|-------------------------------|---------------------|

| 1 1/2"-0" Crushed Road Segment | Haul Cost /cu.yd. | Proc Cost /cu.yd. | Base Cst. /cu.yd. | Cost /cu.yd. | Number Cu. Yds | ROCK COST |
|--------------------------------|-------------------|-------------------|-------------------|--------------|----------------|------------------------|
| A to B | 1.76 | 1.30 | 11.21 | 14.27 | 10,269 | \$146,538.63 |
| E to F | 5.43 | 1.30 | 11.21 | 17.94 | 6,278 | \$112,627.32 |
| G to H | 7.18 | 1.30 | 11.21 | 19.69 | 550 | \$10,829.50 |
| Total C.Y. | | | | | 17,097 | Sub Total \$269,995.45 |

| 1 1/2"-0" Crushed Stockpile | Haul Cost /cu.yd. | Proc Cost /cu.yd. | Base Cst. /cu.yd. | Cost /cu.yd. | Number Cu. Yds | ROCK COST |
|-----------------------------|-------------------|-------------------|-------------------|--------------|----------------|-----------------------|
| Elk Wallow Rd | 1.25 | 0.60 | 11.21 | 13.06 | 1,542 | \$20,138.52 |
| Cedar Creek Rd | 5.10 | 0.60 | 11.21 | 16.91 | 1,639 | \$27,715.49 |
| Total C.Y. | | | | | 3,181 | Sub Total \$47,854.01 |

| Riprap Road Segment | Haul Cost /cu.yd. | Proc Cost /cu.yd. | Base Cst. /cu.yd. | Cost /cu.yd. | Number Cu. Yds | ROCK COST |
|---|-------------------|-------------------|-------------------|--------------|----------------|-----------------------|
| A to B 173+50 to 174+35 Slope Stabilization | 4.98 | 1.40 | 11.21 | 17.59 | 500 | \$8,795.00 |
| A to B 322+80 to 323+45 Slope Stabilization | 2.16 | 1.40 | 11.21 | 14.77 | 250 | \$3,692.50 |
| Total C.Y. | | | | | 750 | Sub Total \$12,487.50 |

TOTAL ROCKING COSTS \$330,336.96

MOVE-IN CALCULATIONS

Sale: Spider Jones

| LOWBOY HAUL (Round Trip) | | |
|--------------------------|--------------|-----------------|
| DIST. (mi) | ROADWAY | AVE SPEED (mph) |
| 43.6 | Highway | 40 |
| 3.6 | Main Lines | 15 |
| 2.0 | Steep Grades | 5 |

| No. | EQUIPMENT DESCRIPTION | Move in Cost | Pilot Cars | Within Area Move (\$/mile) | Begin Mileage | End Mileage | Total Miles | Within Area Cost | Total Cost |
|-----|-------------------------|--------------|------------|----------------------------|---------------|-------------|-------------|------------------|------------|
| 0 | Drill & Compressor | \$0.00 | | \$46.00 | 0.00 | 0.00 | 0 | \$0.00 | \$0.00 |
| 0 | Brush Cutter | \$0.00 | | \$4.00 | 0.00 | 0.00 | 0 | \$0.00 | \$0.00 |
| 0 | Graders | \$0.00 | | \$3.65 | 0.00 | 0.00 | 0 | \$0.00 | \$0.00 |
| 0 | Loader (Small) | \$0.00 | 1 | \$3.55 | 0.00 | 0.00 | 0 | \$0.00 | \$0.00 |
| 0 | Loader (Med. & Large) | \$0.00 | 1 | \$9.00 | 0.00 | 0.00 | 0 | \$0.00 | \$0.00 |
| 0 | Rollers & Compactors | \$0.00 | | \$5.00 | 0.00 | 0.00 | 0 | \$0.00 | \$0.00 |
| 0 | Excavators (Small) | \$0.00 | | \$22.00 | 0.00 | 0.00 | 0 | \$0.00 | \$0.00 |
| 0 | Excavators (Med.) | \$0.00 | | \$35.50 | 0.00 | 0.00 | 0 | \$0.00 | \$0.00 |
| 1 | Excavators (Large) | \$411.31 | 1 | \$44.80 | 0.00 | 3.05 | 3.1 | \$136.64 | \$547.95 |
| 0 | Tired Backhoes/Skidders | \$0.00 | | \$3.00 | 0.00 | 0.00 | 0 | \$0.00 | \$0.00 |
| 0 | Tractors (D6) | \$0.00 | 2 | \$7.10 | 0.00 | 0.00 | 0 | \$0.00 | \$0.00 |
| 0 | Tractors (D7) | \$0.00 | 2 | \$11.30 | 0.00 | 0.00 | 0 | \$0.00 | \$0.00 |
| 1 | Tractor (D8) | \$404.03 | 2 | \$15.10 | 0.00 | 3.05 | 3.1 | \$46.06 | \$450.09 |
| 3 | Dump Truck (10 cy +) | \$250.23 | | \$2.85 | 0.00 | 3.05 | 3.05 | \$26.08 | \$276.31 |
| 0 | Dump Truck (Off Hiway) | \$0.00 | 1 | \$4.75 | 0.00 | 0.00 | 0 | \$0.00 | \$0.00 |
| 0 | Water Truck (1500 Gal) | \$0.00 | | \$2.85 | 0.00 | 0.00 | 0 | \$0.00 | \$0.00 |
| 0 | Water Truck (2500 Gal) | \$0.00 | | \$2.85 | 0.00 | 0.00 | 0 | \$0.00 | \$0.00 |
| 0 | Jaw | \$1,066.00 | | | | | | | |
| 0 | 2-Stage Crusher | \$1,597.00 | | | | | | | |
| 0 | 3-Stage Crusher | \$2,489.00 | | | | | | | |

| | |
|----------------------|------------|
| TOTAL MOVE-IN COSTS: | \$1,274.35 |
|----------------------|------------|



**OREGON DEPARTMENT OF FORESTRY
CRUISE REPORT**

Spider Jones

"STEWARDSHIP IN FORESTRY"

1. **Type of Sale:** Regeneration Harvest (modified clearcut, Retention cut); Recovery
2. **Legal Description:** Portions of sections 28, 29,30,31,32, 33 T2N, R7W
- 3.
4. **Sale Acreage:** The sale boundaries were plotted on a digital orthophotograph and the acreage was calculated with GIS.

| Sale Area | Activity | Acres | | |
|--------------|-------------------|------------|------------|------------|
| | | Sale | Total | Net |
| 1 | Modified Clearcut | 56 | 57 | 52 |
| 2 | Retention Cut | 37 | 36 | 34 |
| 3 | Modified Clearcut | 58 | 58 | 57 |
| 4 | Retention Cut | 73 | 70 | 66 |
| 5 | Modified Clearcut | 70 | 87 | 64 |
| 6 | Modified Clearcut | 71 | 71 | 68 |
| 7 | Modified Clearcut | 110 | 114 | 98 |
| 8 | Retention Cut | 29 | 29 | 28 |
| 9 | Modified Clearcut | 11 | 11 | 11 |
| Total | | 515 | 532 | 478 |

Sale Acres: Area within the Timber Sale Boundary signs.

Total Acres: For accomplishment reporting : Sale acres; plus green tree retention acres outside the sale boundary; less roads and riparian areas classified as Special Stewardship in LMCS inside the sale boundary.

Net Acres: Used for calculating the advertised volume: Sale acres; less green tree retention, roads, and riparian areas classified as Special Stewardship in LMCS inside the sale boundary.

4. **Cruising Procedures:**

A. **Cruise Method:** A total of 132 variable radius full point plots were established on the sale areas. A ratio of two count plots per one measured plot was established. Conifer with less than 7" DBH and alder with less than 10" DBH were not recorded. On the count plots the species and tree count were recorded. On the measure plots the species, DBH, height to a 5" merchantable top for conifer and 8" for alder, form factor at 16', and grades, lengths and defect of each segment were recorded. Diameters were taken at 4.5 feet and were measured to the nearest inch.

B. **Plot size:** 20 BAF

- C. **Point of observation:** 4.5 feet
- D. **Grading System:** Columbia River Official Log Scaling and Grading Bureau rules.
- E. **Diameter Standards:** 4.5 feet (DBH) to the nearest inch.
- F. **Form Point:** 16 feet for conifers.
- G. **Form Factor:** A form factor was recorded for all trees on measure plots. The average for Douglas-fir was 85 and the average form factor for red alder was 82.
5. **Computation Procedure:** The volumes and statistics for the timber cruised were computed using Atterbury Consultants, Inc. SUPER A.C.E. 98 program. The coefficient of variation for the combined sale areas was 57.6%. The standard error was 5.0%. Areas 2, 4, and 8, the retention cuts, the largest Douglas-fir and all other conifer trees were left to achieve approximately 33 square feet residual basal area. In the remaining areas, the 4 largest trees Douglas-fir per acre and all other conifer trees will be left for snag and down woody debris recruitment.
6. **Defect and Breakage:** A 5% reduction for defect and breakage was applied to the volume.
7. **Timber Description:** The sale area is composed of 45 year old Douglas-fir with scattered alder. The sale area burned in the 1933 Tillamook Fire and the 1945 Wilson River fire. Parts of areas 4 and 5 burned in the 1939 Saddle Mountain fire as well. The sale areas were aerial seeded or planted between 1957 and 1961. The majority of the sale area was thinned as part of the Elk Wallow Thin timber sale in 2001-2002. The Douglas-fir has moderate to severe Swiss needle cast symptoms. The alder is mainly in a pure stand in Area 7 and is of good form for this area.
8. **Cruiser Names/Dates:** Bob Thurman, Nick Stumpf, Dwayne Shotton, and Jay Anderson. June, 2004.
9. **Revenue Distribution:**
100% FDF
100% Tax Code 56
Deed Number: 35
99% Rehabilitation Obligated
7. **Attachments:**
Volume Summary
Logging Plan
Cruise Map



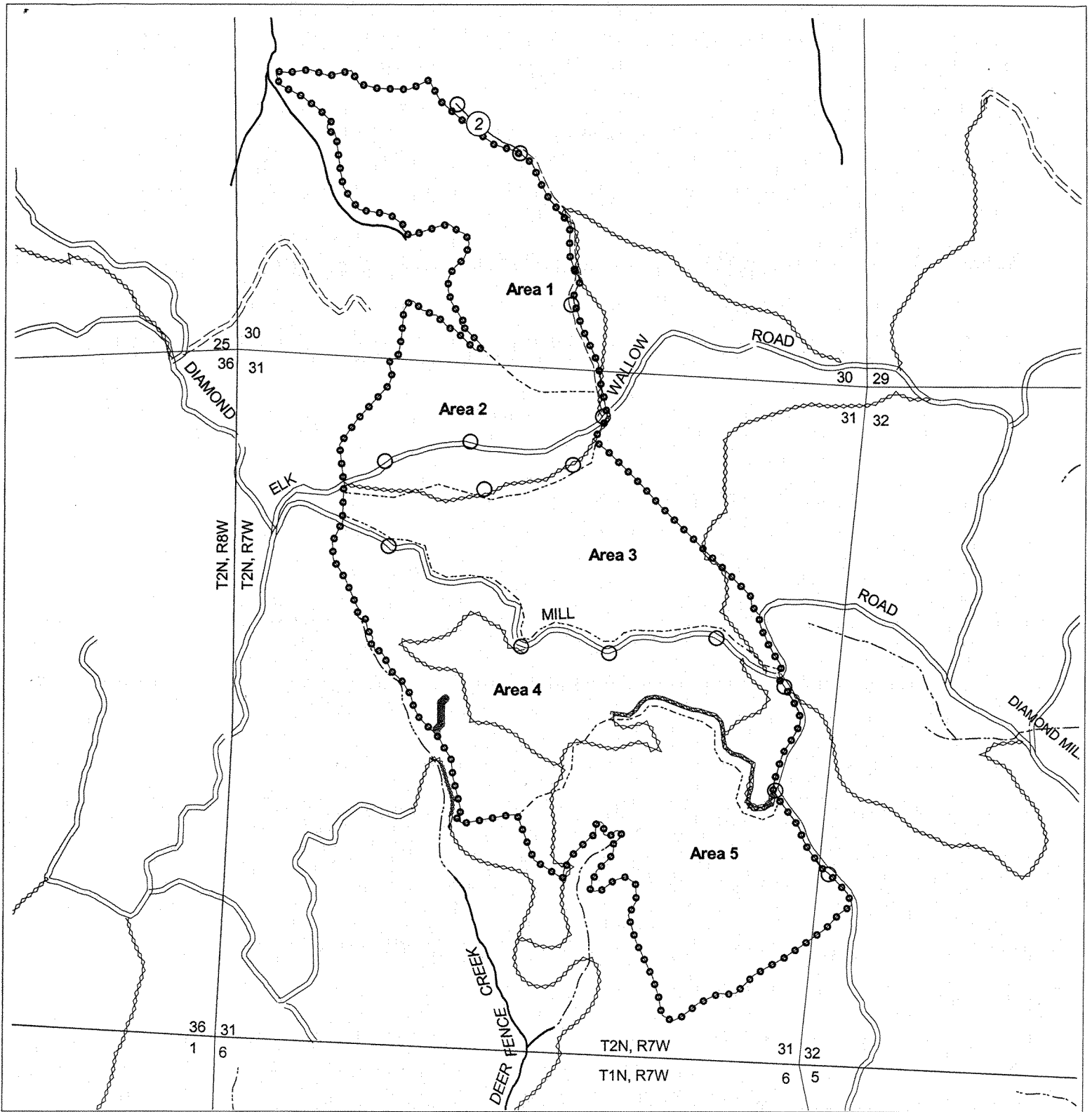
"STEWARDSHIP IN FORESTRY"

Sale Name
Spider Jones
Volume Summary

| Modified Clear-cuts, Areas 1,3,5,6,7and 9 | | | | | |
|--|------------------------|-----------------|---------------|-------|----------------|
| 350 acres | | | | | |
| SPECIES | Basal Area Per Acre | Vol/Acre MBF | Volume MBF | D & B | Net Vol MBF |
| Douglas-fir | 115.31 | 11.4 | 4423 | 5% | 4202 |
| Red Alder | 6.67 | 0.4 | 147 | 5% | 140 |
| TOTAL | 121.98 | 11.8 | 4570 | | 4342 |

| Retention cuts, Areas 2,4,and 8 | | | | | |
|--|------------------------|-----------------|---------------|-------|----------------|
| 128 acres | | | | | |
| SPECIES | Basal Area Per Acre | Vol/Acre MBF | Volume MBF | D & B | Net Vol MBF |
| Douglas-fir | 86.01 | 8.4 | 1071 | 5% | 1017 |
| Red Alder | 6.67 | 0.4 | 56 | 5% | 53 |
| TOTAL | 92.68 | 8.8 | 1127 | | 1070 |

| TOTAL SALE VOLUME | | | |
|--------------------------|-------------|--|----------------|
| SPECIES | MBF | | Net Vol. (MBF) |
| Douglas-fir | 5494 | | 5219 |
| Red Alder | 203 | | 193 |
| TOTAL | 5697 | | 5412 |



- Landing
- ▲ Domestic water supply
- ⊗ Blocked
- Cable yarding
- ▨ Ground yarding
- ▩ Helicopter yarding
- Buffer
- ▤ Non-required thinning
- Area boundary
- Sale boundary
- Ownership boundary
- Perennial Type-F stream
- Perennial Type-N stream
- ==== Surfaced road
- Unsurfaced road
- == State highway
- County road
- ② Non-project road
- Swing road
- ⋯ Abandoned road
- ⋯ OHV trail
- ⋯ Non-motorized trail

LOGGING PLAN
 Timber Sale Contract No. 341-05-46
 Spider Jones
 Portions of Sections 28, 29, 30,
 31, 32 and 33, T2N, R7W, W. M.
 Tillamook County, Oregon

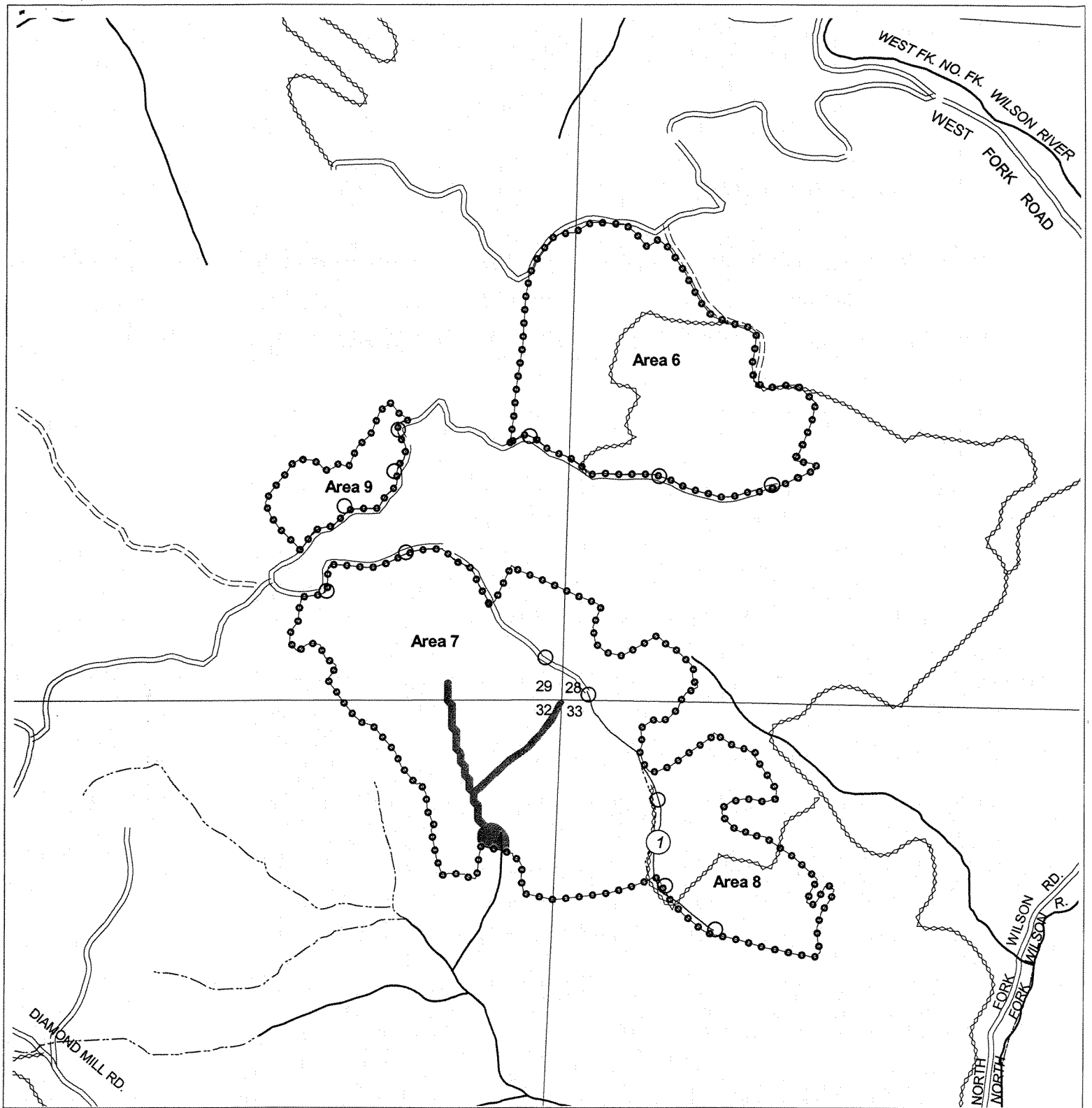


Tillamook District GIS
 11-08-2004

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 for legal, engineering, or surveying purposes.

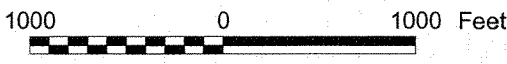


| Area | Type of Operation | Acres | |
|--------------|-------------------|------------|------------|
| | | Sale | Net |
| 1 | Modified Clearcut | 56 | 52 |
| 2 | Retention Cut | 37 | 34 |
| 3 | Modified Clearcut | 58 | 57 |
| 4 | Retention Cut | 73 | 66 |
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| 9 | Modified Clearcut | 11 | 11 |
| Total | | 515 | 478 |



- Landing
- ▲ Domestic water supply
- ⊗ Blocked
- Cable yarding
- ▨ Ground yarding
- ▩ Helicopter yarding
- Buffer
- ▤ Non-required thinning
- Area boundary
- Sale boundary
- Ownership boundary
- Perennial Type-F stream
- Perennial Type-N stream
- ==== Surfaced road
- Unsurfaced road
- State highway
- County road
- (2)— Non-project road
- Swing road
- Abandoned road
- OHV trail
- Non-motorized trail

LOGGING PLAN
 Timber Sale Contract No. 341-05-46
 Spider Jones
 Portions of Sections 28, 29, 30,
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| Area | Type of Operation | Acres | |
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| 9 | Modified Clearcut | 11 | 11 |
| Total | | 515 | 478 |





OREGON DEPARTMENT OF FORESTRY WRITTEN PLAN

SALE NAME: Spider Jones

LOCATION: Sections 28,30, 31, and 32 T2N, R7W, W.M. Tillamook County, Oregon.

ACTIVITIES: Cable corridors across Type F stream buffers.

PROTECTED RESOURCES:

Type F streams: Small unnamed tributary of Deer Fence Creek along the boundary of Areas 4, and 5; small unnamed tributary of the West Fork Wilson River along the boundary of Area 1; and two small unnamed tributaries of the North Fork Wilson River that are adjacent to Areas 7 and 8.

Riparian Management Area (RMA): The area within 50 feet slope distance from the high water mark on each side of a small Type F stream.

PROTECTION MEASURES:

YARDING :

- All trees, outside of cable corridors in the RMA are reserved from cutting
- Trees felled for cable corridors within the RMA will be incidental and will not be removed.
- Cable yarding lines will be pulled out of the RMA prior to rigging the next yarding road
- If trees or logs fall or slide into a stream channel they will not be limbed, bucked, or removed without approval from State.
- Cable yarding lines across RMA's will be an average of at least 150 feet apart.

PREPARED BY: Bob Thurman
Forester, Central Unit
11/5/2004 12:45 PM