



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Four Corners
Sale 341-15-27

District: Forest Grove

Date: July 01, 2014

cost summary

| | Conifer | Hardwood | Total |
|-------------------------|----------------|-------------------|----------------|
| Gross Timber Sale Value | \$3,120,802.90 | \$0.00 | \$3,120,802.90 |
| | | Project Work: | \$(193,380.00) |
| | | Advertised Value: | \$2,927,422.90 |



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timber description

Location: Portions of Section 1, T3N, R6W, W.M., Tillamook County, Oregon and portions of Sections 35 and 36, T4N, R6W, Clatsop County, Oregon.

Stand Stocking: 20%

| SpecieName | AvgDBH | Amortization (%) | Recovery (%) |
|-----------------------|--------|------------------|--------------|
| Douglas - Fir | 20 | 0 | 98 |
| Western Hemlock / Fir | 14 | 0 | 98 |

| Volume by Grade | 2S | 3S | 4S | Total |
|-----------------------|-------|-------|-----|-------|
| Douglas - Fir | 4,797 | 1,490 | 226 | 6,513 |
| Western Hemlock / Fir | 57 | 175 | 21 | 253 |
| Total | 4,854 | 1,665 | 247 | 6,766 |



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comments: Pond Values Used: 2nd Quarter Calendar Year 2014.

Western redcedar and Other Cedars Stumpage Price = Pond Value
minus Logging Cost:
 $\$885.47/\text{MBF} = \$1,050/\text{MBF} - \$164.53/\text{MBF}$

Red Alder and Other Hardwoods Stumpage Price = Pond Value minus
Logging Cost:
 $\$450.47/\text{MBF} = \$615/\text{MBF} - \$164.53/\text{MBF}$

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):
Brand and Paint: 6,766 MBF @ \$2/MBF = \$13,532
TOTAL Other Costs (with Profit & Risk to be added) = \$13,532

Other Costs (No Profit & Risk added):
Machine time to block/waterbar road and skid trails:
20 Hours @ \$150/Hr. = \$3,000
Equipment Cleaning: 4 x \$1,000/Machine = \$4,000
Snag Creation: 150 Trees @ \$40/tree = \$6,000
TOTAL Other Costs (No Profit & Risk added) = \$13,000

ROAD MAINTENANCE
Move-in: \$2,000
General Road Maintenance: 2.8 miles x \$1,000/mile = \$2,800
TOTAL: \$4,800/6,766 MBF = \$.71/MBF



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logging conditions

| | | | |
|--------------------------|---|--------------------------|-----------------|
| combination#: | 1 | Douglas - Fir | 100.00% |
| | | Western Hemlock / Fir | 100.00% |
| yarding distance: | Short (400 ft) | downhill yarding: | No |
| logging system: | Shovel | Process: | Stroke Delimber |
| tree size: | Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF | | |
| loads / day: | 6.0 | bd. ft / load: | 4,200 |
| cost / mbf: | \$57.07 | | |
| machines: | Stroke Delimber (B) | | |



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Four Corners Sale 341-15-27

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logging costs

| | | | |
|---------------------------|--------------|---------------------------|-------------|
| Operating Seasons: | 2.00 | Profit Risk: | 10.00% |
| Project Costs: | \$193,380.00 | Other Costs (P/R): | \$13,532.00 |
| Slash Disposal: | \$0.00 | Other Costs: | \$13,000.00 |

Miles of Road

Road Maintenance: \$0.71

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

Hauling Costs

| Species | \$ / MBF | Trips/Day | MBF / Load |
|-----------------------|----------|-----------|------------|
| Douglas - Fir | \$0.00 | 2.0 | 4.4 |
| Western Hemlock / Fir | \$0.00 | 2.0 | 3.8 |



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Four Corners
Sale 341-15-27

District: Forest Grove

Date: July 01, 2014

logging costs breakdown

| Logging | Road Maint | Fire Protect | Hauling | Other P/R appl | Profit & Risk | Slash Disposal | Scaling | Other | Total |
|------------------------------|------------|--------------|---------|----------------|---------------|----------------|---------|--------|----------|
| Douglas - Fir | | | | | | | | | |
| \$57.07 | \$0.72 | \$1.30 | \$82.19 | \$2.00 | \$14.33 | \$0.00 | \$5.00 | \$1.92 | \$164.53 |
| Western Hemlock / Fir | | | | | | | | | |
| \$57.07 | \$0.72 | \$1.30 | \$95.17 | \$2.00 | \$15.63 | \$0.00 | \$5.00 | \$1.92 | \$178.81 |

| Specie | Amortization | Pond Value | Stumpage | Amortized |
|-----------------------|--------------|------------|----------|-----------|
| Douglas - Fir | \$0.00 | \$630.87 | \$466.34 | \$0.00 |
| Western Hemlock / Fir | \$0.00 | \$508.97 | \$330.16 | \$0.00 |



"STEWARDSHIP IN FORESTRY"

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Four Corners
Sale 341-15-27

District: Forest Grove

Date: July 01, 2014

summary

Amortized

| Specie | MBF | Value | Total |
|-----------------------|-----|--------|--------|
| Douglas - Fir | 0 | \$0.00 | \$0.00 |
| Western Hemlock / Fir | 0 | \$0.00 | \$0.00 |

Unamortized

| Specie | MBF | Value | Total |
|-----------------------|-------|----------|----------------|
| Douglas - Fir | 6,513 | \$466.34 | \$3,037,272.42 |
| Western Hemlock / Fir | 253 | \$330.16 | \$83,530.48 |

Gross Timber Sale Value

Recovery: \$3,120,802.90

Prepared by: Eric Foucht

Phone: 503-359-7473

PROJECT COST SUMMARY SHEET

Timber Sale: Four Corners

Sale Number: 341-15-27

PROJECT NO. 1: ROAD CONSTRUCTION AND IMPROVEMENT

CONSTRUCTION

| Road Segment | Length | Cost |
|--------------|----------------|-------------|
| BB to CC | 7+00 | \$2,627.04 |
| DD to EE | 40+75 | \$15,509.91 |
| FF to GG | 38+70 | \$9,866.33 |
| HH to II | 17+00 | \$5,679.40 |
| | 96+45 stations | |
| | 1.83 miles | |

SUBTOTAL CONSTRUCTION \$33,682.68

IMPROVEMENTS

| Road Segment | Length | Cost |
|--------------|---------------|------------|
| AA to BB | 9+15 | \$1,866.39 |
| | 9+15 stations | |
| | 0.17 miles | |

SUBTOTAL IMPROVEMENTS \$1,866.39

TOTAL PROJECT NO. 1 COST = \$35,549.07

PROJECT NO. 2: SURFACING

| Road Segment | Amount | Type | Cost |
|--------------|----------|------|-------------|
| AA to BB | 700 cy | 4"-0 | \$12,006.90 |
| BB to CC | 677 cy | 4"-0 | \$11,644.40 |
| DD to EE | 3,056 cy | 4"-0 | \$53,693.92 |
| FF to GG | 2,858 cy | 4"-0 | \$50,357.96 |
| HH to II | 1,367 cy | 4"-0 | \$24,346.27 |
| Total | 8,658 cy | 4"-0 | |

TOTAL PROJECT NO. 2 COST = \$152,049.45

PROJECT NO. 3: GRASS SEED, FERTILIZE, & MULCH

Grass seed and fertilize areas of disturbed soil.

TOTAL PROJECT NO. 3 COST = \$1,252.44

MOVE IN & EQUIPMENT CLEANING

| | |
|---|------------|
| Grader | \$319.25 |
| Roller (smooth/grid) & Compactors | \$351.14 |
| Excavators (Large) - Equipment Cleaning | \$1,551.90 |
| Tractor (D8) - Equipment Cleaning | \$1,559.30 |
| 10-12 yd Dump Truck (5 each) | \$626.88 |
| Water Truck (2,500 Gal) | \$112.01 |

TOTAL MOVE IN & EQUIPMENT CLEANING COST = \$4,520.48

TOTAL ALL PROJECTS \$193,371.44
TOTAL CREDITS \$193,380.00

SUMMARY OF CONSTRUCTION COST

Timber Sale: Four Corners
Road Segment: AA to BB

Timber Sale No. : 341-15-27
Improvement : 9+15 stations
0.17 miles

PROJECT NO. 1

EXCAVATION

| | | | | | |
|---------------------------------|------|---------|----------|------------|----------|
| Clearing and Grubbing (Scatter) | 0.32 | acres @ | \$980.00 | per acre = | \$308.78 |
| Construct Turnaround (1) | 1 | ea @ | \$75.00 | per ea = | \$75.00 |
| Grade, Ditch, and Roll | 9.15 | sta @ | \$28.70 | per sta = | \$262.61 |
| TOTAL EXCAVATION COSTS= | | | | | \$646.39 |

CULVERTS - MATERIALS & INSTALLATION

Culverts

60 LF of 18" \$1,200.00

Culvert Markers

2 markers \$20.00

TOTAL CULVERT COSTS = \$1,220.00

PROJECT NO. 1 TOTAL COST = \$1,866.39

PROJECT NO. 2:

| SURFACING | 12 | " deep = | 65 cy/sta | | | |
|-----------------------|-----|----------|-----------|---|------------------|-------------|
| AA to BB | 595 | cy of | 4" - 0 | @ | \$17.11 per cy = | \$10,180.45 |
| Turnouts (1) | 20 | cy of | 4" - 0 | @ | \$17.11 per cy = | \$342.20 |
| Subgrade Reinforcemer | 65 | cy of | 4" - 0 | @ | \$17.57 per cy = | \$1,142.05 |
| Junction | 20 | cy of | 4" - 0 | @ | \$17.11 per cy = | \$342.20 |
| Total = | 700 | cy of | 4"-0 | | | |

PROJECT NO. 2 TOTAL COST = \$12,006.90

PROJECT NO. 3:

| | | | | | |
|---|------|---------|----------|------------|---------|
| Grass seed and fertilize areas of disturbed soil. | 0.16 | acres @ | \$220.00 | per acre = | \$34.66 |
|---|------|---------|----------|------------|---------|

PROJECT NO. 3 TOTAL COST = \$34.66

TOTAL COST = \$13,907.95

SUMMARY OF CONSTRUCTION COST

Timber Sale: Four Corners
 Road Segment: BB to CC

Timber Sale No.: 341-15-27
 Construction: 7+00 stations
0.13 miles

PROJECT NO. 1

EXCAVATION

| | | | | | |
|---------------------------------|-------|---------|----------|------------|----------|
| Clearing and Grubbing (Scatter) | 0.64 | acres @ | \$980.00 | per acre = | \$629.94 |
| Balanced Road Construction | 7.00 | sta @ | \$90.00 | per sta = | \$630.00 |
| Construct Turnouts | 1 | ea @ | \$60.00 | per ea = | \$60.00 |
| Construct Turnaround (1) | 1 | ea @ | \$75.00 | per ea = | \$75.00 |
| Landing | 1 | ea @ | \$285.00 | per ea = | \$285.00 |
| Grade, Ditch, and Roll | 33.00 | sta @ | \$28.70 | per sta = | \$947.10 |

PROJECT NO. 1 TOTAL COST = \$2,627.04

PROJECT NO. 2:

SURFACING

| | | | | | |
|----------------|-----|----------|-----------|---|-----------------------------|
| | 12 | " deep = | 65 cy/sta | | |
| BB to CC | 455 | cy of | 4" - 0 | @ | \$17.20 per cy = \$7,826.00 |
| Turnouts (1) | 20 | cy of | 4" - 0 | @ | \$17.20 per cy = \$344.00 |
| Turnaround (1) | 22 | cy of | 4" - 0 | @ | \$17.20 per cy = \$378.40 |
| Landing (1) | 180 | cy of | 4" - 0 | @ | \$17.20 per cy = \$3,096.00 |
| Total = | 677 | cy of | 4" - 0 | | |

PROJECT NO. 2 TOTAL COST = \$11,644.40

PROJECT NO. 3:

| | | | | | |
|---|------|---------|----------|------------|---------|
| Grass seed and fertilize areas of disturbed soil. | 0.32 | acres @ | \$220.00 | per acre = | \$70.71 |
|---|------|---------|----------|------------|---------|

PROJECT NO. 3 TOTAL COST = \$70.71

TOTAL COST = \$14,342.14

SUMMARY OF CONSTRUCTION COST

Timber Sale: Four Corners Timber Sale No.: 341-15-27
 Road Segment: DD to EE Construction: 40+75 stations
0.77 miles

PROJECT NO. 1

EXCAVATION

| | | | | | |
|---------------------------------|-------|---------|----------|------------|-------------|
| Clearing and Grubbing (Scatter) | 4.68 | acres @ | \$980.00 | per acre = | \$4,583.91 |
| Balanced Road Construction | 40.75 | sta @ | \$90.00 | per sta = | \$3,667.50 |
| Construct Turnouts | 6 | ea @ | \$60.00 | per ea = | \$360.00 |
| Construct Turnaround (1) | 1 | ea @ | \$75.00 | per ea = | \$75.00 |
| Landing | 1 | ea @ | \$285.00 | per ea = | \$285.00 |
| Grade, Ditch, and Roll | 33.40 | sta @ | \$28.70 | per sta = | \$958.58 |
| Grade and Roll (Outslope) | 7.35 | sta @ | \$27.20 | per sta = | \$199.92 |
| TOTAL EXCAVATION COSTS= | | | | | \$10,129.91 |

CULVERTS - MATERIALS & INSTALLATION

| | | | | | | |
|-----------------|-----------|-----------|----------------|----|-----------------------|------------|
| Culverts | 120 | LF of 18" | \$2,400.00 | 60 | LF of 24" | \$1,740.00 |
| | 30 | LF of 30" | \$1,170.00 | | | |
| Culvert Markers | 7 markers | | <u>\$70.00</u> | | | |
| | | | | | TOTAL CULVERT COSTS = | \$5,380.00 |

PROJECT NO. 1 TOTAL COST = \$15,509.91

PROJECT NO. 2:

SURFACING

| | | | | | | |
|------------------------|-------|----------|-----------|---|---------|----------------------|
| | 12 | " deep = | 65 cy/sta | | | |
| DD to EE | 2,649 | cy of | 4" - 0 | @ | \$17.57 | per cy = \$46,542.93 |
| Turnouts (6) | 120 | cy of | 4" - 0 | @ | \$17.57 | per cy = \$2,108.40 |
| Turnaround (1) | 22 | cy of | 4" - 0 | @ | \$17.57 | per cy = \$386.54 |
| Junction | 20 | cy of | 4" - 0 | @ | \$17.57 | per cy = \$351.40 |
| Landing (1) | 180 | cy of | 4" - 0 | @ | \$17.57 | per cy = \$3,162.60 |
| Subgrade Reinforcement | 65 | cy of | 4" - 0 | @ | \$17.57 | per cy = \$1,142.05 |
| Total = | 3,056 | cy of | 4" - 0 | | | |

PROJECT NO. 2 TOTAL COST = \$53,693.92

PROJECT NO. 3:

| | | | | | |
|---|------|---------|----------|------------|----------|
| Grass seed and fertilize areas of disturbed soil. | 2.34 | acres @ | \$220.00 | per acre = | \$514.52 |
| Mulch | 6.00 | bales @ | \$4.50 | per bale = | \$27.00 |

PROJECT NO. 3 TOTAL COST = \$541.52

TOTAL COST = \$69,745.35

SUMMARY OF CONSTRUCTION COST

Timber Sale: Four Corners Timber Sale No.: 341-15-27
 Road Segment: FF to GG Construction: 38+70 stations
0.73 miles

PROJECT NO. 1

EXCAVATION

| | | | | | |
|---------------------------------|-------|---------|----------|------------|------------|
| Clearing and Grubbing (Scatter) | 3.55 | acres @ | \$980.00 | per acre = | \$3,482.64 |
| Balanced Road Construction | 37.70 | sta @ | \$90.00 | per sta = | \$3,393.00 |
| Drift | 1.00 | sta @ | \$150.00 | per sta = | \$150.00 |
| Construct Turnouts | 6 | ea @ | \$60.00 | per ea = | \$360.00 |
| Construct Turnaround (1) | 1 | ea @ | \$75.00 | per ea = | \$75.00 |
| Landing | 1 | ea @ | \$285.00 | per ea = | \$285.00 |
| Grade, Ditch, and Roll | 38.70 | sta @ | \$28.70 | per sta = | \$1,110.69 |
| TOTAL EXCAVATION COSTS= | | | | | \$8,856.33 |

CULVERTS - MATERIALS & INSTALLATION

Culverts

50 LF of 18" \$1,000.00

Culvert Markers

1 markers \$10.00

TOTAL CULVERT COSTS = \$1,010.00

PROJECT NO. 1 TOTAL COST = \$9,866.33

PROJECT NO. 2:

SURFACING

| | | | | | |
|----------------|-------|----------|-----------|---|------------------------------|
| | 12 | " deep = | 65 cy/sta | | |
| FF to GG | 2,516 | cy of | 4" - 0 | @ | \$17.62 per cy = \$44,331.92 |
| Turnouts (6) | 120 | cy of | 4" - 0 | @ | \$17.62 per cy = \$2,114.40 |
| Turnaround (1) | 22 | cy of | 4" - 0 | @ | \$17.62 per cy = \$387.64 |
| Junction | 20 | cy of | 4" - 0 | @ | \$17.62 per cy = \$352.40 |
| Landing (1) | 180 | cy of | 4" - 0 | @ | \$17.62 per cy = \$3,171.60 |
| Total = | 2,858 | cy of | 4" - 0 | | |

PROJECT NO. 2 TOTAL COST = \$50,357.96

PROJECT NO. 3:

Grass seed and fertilize areas of disturbed soil. 1.78 acres @ \$220.00 per acre = \$390.91

PROJECT NO. 3 TOTAL COST = \$390.91

TOTAL COST = \$60,615.20

SUMMARY OF CONSTRUCTION COST

Timber Sale: Four Corners
 Road Segment: HH to II

Timber Sale No.: 341-15-27
 Construction: 17+00 stations
0.32 miles

PROJECT NO. 1

EXCAVATION

| | | | | | |
|---------------------------------|-------|---------|----------|------------|------------|
| Clearing and Grubbing (Scatter) | 1.95 | acres @ | \$980.00 | per acre = | \$1,912.30 |
| Balanced Road Construction | 17.00 | sta @ | \$90.00 | per sta = | \$1,530.00 |
| Construct Turnouts | 2 | ea @ | \$60.00 | per ea = | \$120.00 |
| Construct Turnaround (1) | 1 | ea @ | \$75.00 | per ea = | \$75.00 |
| Landing | 1 | ea @ | \$285.00 | per ea = | \$285.00 |
| Grade, Ditch, and Roll | 33.00 | sta @ | \$28.70 | per sta = | \$947.10 |
| TOTAL EXCAVATION COSTS = | | | | | \$4,869.40 |

CULVERTS - MATERIALS & INSTALLATION

Culverts
 40 LF of 18" \$800.00
 Culvert Markers
 1 markers \$10.00

TOTAL CULVERT COSTS = \$810.00

PROJECT NO. 1 TOTAL COST = \$5,679.40

PROJECT NO. 2:

| | | | | | |
|----------------|-------|----------|-----------|---|------------------------------|
| SURFACING | 12 | " deep = | 65 cy/sta | | |
| HH to II | 1,105 | cy of | 4" - 0 | @ | \$17.81 per cy = \$19,680.05 |
| Turnouts (2) | 40 | cy of | 4" - 0 | @ | \$17.81 per cy = \$712.40 |
| Turnaround (1) | 22 | cy of | 4" - 0 | @ | \$17.81 per cy = \$391.82 |
| Junction | 20 | cy of | 4" - 0 | @ | \$17.81 per cy = \$356.20 |
| Landing (1) | 180 | cy of | 4" - 0 | @ | \$17.81 per cy = \$3,205.80 |
| Total = | 1,367 | cy of | 4" - 0 | | |

PROJECT NO. 2 TOTAL COST = \$24,346.27

PROJECT NO. 3:

Grass seed and fertilize areas of disturbed soil. 0.98 acres @ \$220.00 per acre = \$214.65

PROJECT NO. 3 TOTAL COST = \$214.65

TOTAL COST = \$30,240.32

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Timber Sale: Four Corners
 Sale Number: 341-15-27
 Pit Name: West Mac Pit

| | | | |
|-------------|-------------|-------------------------|-----------------|
| Swell: | <u>130%</u> | 4"-0 (trk measure) | <u>8,658 cy</u> |
| Shrinkage: | <u>116%</u> | Total Truck Yardage: | <u>8,658 cy</u> |
| Drill Pct.: | <u>100%</u> | Total In Place Yardage: | <u>6,660 cy</u> |

Pit Development & Cleanup including Clearing and grubbing of
 Waste Area adjacent to pit, place overburden
 in Waste Area, spread and compact.

| | | | | |
|---------------------|---------------------|------------------|---|--------------------|
| | | | | \$5,550.00 |
| Drill & Shoot: | <u>\$2.50 /cy x</u> | <u>6,660 cy</u> | = | \$16,650.00 |
| Push Rock (Twice): | <u>\$0.70 /cy x</u> | <u>17,316 cy</u> | = | \$12,121.20 |
| Oversize Reduction: | <u>\$4.50 /cy x</u> | <u>666 cy</u> | = | \$2,997.00 |
| Load Crusher: | <u>\$0.70 /cy x</u> | <u>8,658 cy</u> | = | \$6,060.60 |
| Crushing (4" - 0): | <u>\$2.35 /cy x</u> | <u>8,658 cy</u> | = | \$20,346.30 |
| Load Dump Truck: | <u>\$0.70 /cy x</u> | <u>8,658 cy</u> | = | \$6,060.60 |
| | | Subtotal | | <u>\$69,785.70</u> |

| | | | |
|--------------------------------|----------------------------|----------------|-------------------|
| Equipment Cleaning | | \$2,000.00 | |
| Move in Crusher (2 Stage) | | \$1,917.00 | |
| Set up Crusher | | \$1,918.00 | |
| Move in Dump Truck | | \$125.00 | |
| Move in Excavator | | \$622.87 | |
| Move in D-8 | | \$623.96 | |
| Move in Loader | | \$560.03 | |
| Clean Up Pit | | \$300.00 | |
| Gradation Tests (\$65/2000 cy) | <u>\$65.00 cy/2000cy x</u> | <u>5 tests</u> | <u>\$325.00</u> |
| | | Subtotal | <u>\$8,727.01</u> |

| | | | |
|-------------------------|------------------|-----------------------|--------------------|
| ROCK DEVELOPMENT COST = | <u>\$9.07/cy</u> | TOTAL PRODUCTION COST | <u>\$78,512.71</u> |
|-------------------------|------------------|-----------------------|--------------------|

Timber Sale: Four Corners
Sale Number: 341-15-27

| No. | EQUIPMENT DESCRIPTION | Equipment Cleaning | Base Cost | Woods Cost | Pilot Cars | Within Area | | Within | |
|----------------------|------------------------------------|--------------------|-----------|------------|------------|----------------|-------------|-----------|------------|
| | | | | | | Move (\$/mile) | Total Miles | Area Cost | Total Cost |
| 1 | Graders | | \$316.67 | \$2.58 | | \$3.65 | 0.0 | \$0.00 | \$319.25 |
| 1 | Rollers (smooth/grid) & Compactors | | \$308.59 | \$42.55 | | \$5.00 | 0.0 | \$0.00 | \$351.14 |
| 1 | Excavators (Large) | \$1,000 | \$466.14 | \$85.76 | 1 | \$44.80 | 0.0 | \$0.00 | \$1,551.90 |
| 1 | Tractor (D8) | \$1,000 | \$473.80 | \$85.50 | 2 | \$15.10 | 0.0 | \$0.00 | \$1,559.30 |
| 5 | Dump Truck (10 cy +) | | \$625.00 | \$1.88 | | \$14.25 | 0.0 | \$0.00 | \$626.88 |
| 1 | Water Truck (2500 Gal) | | \$111.67 | \$0.34 | | \$2.85 | 0.0 | \$0.00 | \$112.01 |
| TOTAL MOVE-IN COSTS: | | | | | | | | | \$4,520.48 |

TIMBER SALE SUMMARY
Four Corners
Contract No. 341-15-27

1. **Location:** Portions of Section 1, T3N, R6W, W.M., Tillamook County, Oregon and Portions of Sections 35 and 36, T4N, R6W, Clatsop County, Oregon.
2. **Type of Sale:** This timber sale consists of 146 acres of Modified Clearcut in two Sale Areas. The timber will be sold on a recovery basis at a sealed bid auction.
3. **Revenue Distribution:** 20% BOF, Clatsop County, Tax Code 8-0
80% BOF, Tillamook County, Tax Code 56-1
4. **Sale Acreage:** Acres are net of stream buffers and road prisms. Acreage was determined using ESRI ArcMap GIS software.
5. **Cruise:** The Timber Sale was cruised by ODF Cruisers in April of 2014. For more information see Cruise Report.
6. **Timber Description:** The Timber Sale Area consists of medium to well stocked 58 to 67 year old stands of Douglas-fir. The average Douglas-fir DBH for the Timber Sale Area is approximately 20 inches. The estimated average net volume per acre of Douglas-fir is 45.5 MBF. Western hemlock volume is approximately 1.8 MBF/acre.

7. Volume Summary

MC (146 ACRES)

| SPECIES | | 2 SAW | 3 SAW | 4 SAW | TOTAL |
|-----------------|------------------|-------|-------|-------|-------|
| Douglas-fir | Cruise Volume | 4,895 | 1,520 | 231 | 6,646 |
| | Hidden D&B (2%) | (98) | (30) | (5) | (133) |
| | NET TOTAL | 4,797 | 1,490 | 226 | 6,513 |
| | % of Total | 74 | 23 | 3 | |
| SPECIES | | 2 SAW | 3 SAW | 4 SAW | TOTAL |
| Western hemlock | Cruise Volume | 58 | 179 | 21 | 258 |
| | Hidden D&B (2%) | (1) | (4) | () | (5) |
| | NET TOTAL | 57 | 175 | 21 | 253 |
| | % of Total | 23 | 69 | 8 | |

SALE TOTAL

| SPECIES | 2 SAW | 3 SAW | 4 SAW | TOTAL |
|-----------------|-------|-------|-------|-------|
| Douglas-fir | 4,797 | 1,490 | 226 | 6,513 |
| Western hemlock | 57 | 175 | 21 | 253 |
| | | | | 6,766 |

8. **Topography and Logging Method:** Slopes within the sale areas range from 10% to 42% and are variable in aspect. Both Area 1 and Area 2 are 100% Tractor Based Yarding. As shown in the Logging Plan Map, the average horizontal yarding distance in Area 1 is approximately 350 feet and the maximum is approximately 800 feet. The average horizontal tractor yarding distance in Area 2 is approximately 300 feet and the maximum is approximately 650 feet.

9. **Access:** From Forest Grove, travel north on Highway 47 through Banks then merge onto Highway 26 westbound and continue for approximately 18 miles. Between the 33 and the 34 mile markers, turn north onto an un-named spur Road and continue for approximately 550 feet mile to the south side of the Timber Sale Area.

10. Projects:

| | |
|--|--------------|
| Project No. 1: Road Construction and Improvement | \$35,549.07 |
| Project No. 2: Surfacing | \$152,049.45 |
| Project No. 3: Seed, Fertilize and Mulch | \$1,252.44 |
| Move in and equipment cleaning; | \$4,520.48 |

| | |
|---|--------------|
| Total Credit for all Projects (rounded) | \$193,380.00 |
|---|--------------|

CRUISE REPORT
Four Corners
341-14-13

1. LOCATION:

Portions of Section 35 and 36, T4N, R6W, W.M., Clatsop County, Oregon; and
Portions of Section 1, T3N, R6W, W.M., Tillamook County, Oregon.

2. CRUISE DESIGN:

The cruise design assumed a Coefficient of Variation (CV%) of 40%, a Confidence Level of 68%, a desired sampling error (SE%) of 8%, an average stand diameter of 18 inches and a minimum sample size of 100 grade trees. Pre-cruise plots indicated that approximately 5 trees per plot could be realized with a 40 BAF prism.

3. SAMPLING METHOD:

The Sale Areas were cruised in April, 2014 with a total of 23 variable radius grade plots and 26 variable radius count plots using a 40 BAF prism. Plots were laid out on a 5 chain x 5 chain grid on both sale areas. Plots falling on or near existing roads or no-harvest areas were offset 1 chain.

4. CRUISE RESULTS

The plots yielded 121 trees measured and graded and 158 trees counted for a .8% sample. The cumulative sampling error was 5.4% on the board foot volume and 5.2% on the basal area.

5. TREE MEASUREMENT AND GRADING:

All sample trees were measured and graded following Columbia River Log Scale grade rules and favoring 40 foot segments.

a) **Height Standards:**

Total tree heights were measured to the nearest foot. Bole heights were calculated to a six inch top.

b) **Diameter Standards:** Diameters were measured outside bark at breast height to the nearest inch.

c) **Form Factors** were measured for each grade tree using a form point of 16 feet.

5. DATA PROCESSING

a) **Volumes and Statistics:** Conifer cruise volume estimates, and sampling statistics, were derived from Super Ace 2008 cruise software.

b) **Deductions:** Two percent of the volume was subtracted from the computed volumes to account for hidden defect and breakage.

6. Cruisers: The sale was cruised by ODF cruisers Joe Koch and Mark Savage.

Prepared by: Joe Koch

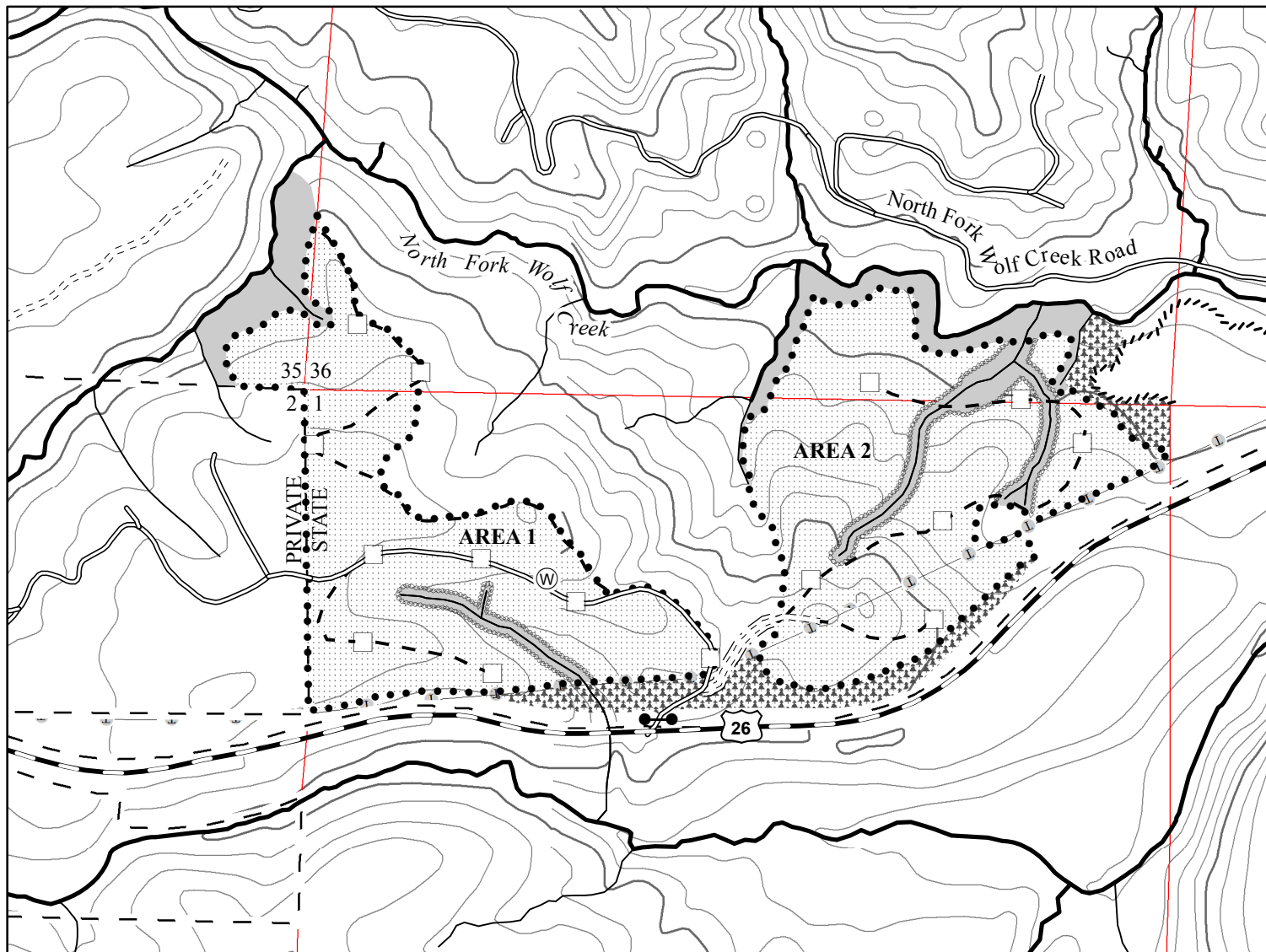
Reviewed by: Eric Foucht

| TC | | PLOGSTVB | | Log Stock Table - MBF | | | | | | | | | | | | | | | |
|----------------------|--------|-------------|----------|-----------------------|--------------|----------|------------|----------|--|-----|-----|-----|-------|-------|-------|-------|-------|-----------|-------|
| T03N R06W S01 Ty00MC | | | | 146.00 | | Project: | | FOURCORN | | | | | | | | Page | | 1 | |
| | | | | | | Acres | | 146.00 | | | | | | | | Date | | 4/30/2014 | |
| | | | | | | | | | | | | | | | | Time | | 1:58:32PM | |
| Spp | S T | So rt | Gr de | Log Len | Gross MBF | Def % | Net MBF | % Spc | Net Volume by Scaling Diameter in Inches | | | | | | | | | | |
| | | | | | | | | | 2-3 | 4-5 | 6-7 | 8-9 | 10-11 | 12-13 | 14-15 | 16-19 | 20-23 | 24-29 | 30-39 |
| DF | | 2M | 22 | | 22 | | 22 | .3 | | | | | | 22 | | | | | |
| DF | | 2M | 24 | | 37 | | 37 | .6 | | | | | | 5 | | | 31 | | |
| DF | | 2M | 32 | | 7 | | 7 | .1 | | | | | | 7 | | | | | |
| DF | | 2M | 38 | | 43 | | 43 | .6 | | | | | | | | | 43 | | |
| DF | | 2M | 40 | | 4,816 | | 4,787 | 72.0 | | | | | | 959 | 853 | 1628 | 1013 | 335 | |
| DF | | 3M | 24 | | 35 | | 35 | .5 | | | | | 30 | 5 | | | | | |
| DF | | 3M | 32 | | 273 | | 273 | 4.1 | | | 90 | 128 | 55 | | | | | | |
| DF | | 3M | 36 | | 31 | | 31 | .5 | | | 31 | | | | | | | | |
| DF | | 3M | 38 | | 6 | | 6 | .1 | | | 6 | | | | | | | | |
| DF | | 3M | 40 | | 1,175 | | 1,174 | 17.7 | | | 129 | 486 | 559 | | | | | | |
| DF | | 4M | 12 | | 19 | | 19 | .3 | | | 19 | | | | | | | | |
| DF | | 4M | 14 | | 30 | | 30 | .5 | | | 30 | | | | | | | | |
| DF | | 4M | 16 | | 44 | | 44 | .7 | | | 44 | | | | | | | | |
| DF | | 4M | 18 | | 7 | | 7 | .1 | | | 7 | | | | | | | | |
| DF | | 4M | 20 | | 11 | | 11 | .2 | | | 11 | | | | | | | | |
| DF | | 4M | 22 | | 24 | | 24 | .4 | | | 24 | | | | | | | | |
| DF | | 4M | 23 | | 2 | | 2 | .0 | | | 2 | | | | | | | | |
| DF | | 4M | 24 | | 44 | | 44 | .7 | | | 44 | | | | | | | | |
| DF | | 4M | 26 | | 5 | | 5 | .1 | | | 5 | | | | | | | | |
| DF | | 4M | 28 | | 30 | | 30 | .5 | | | 30 | | | | | | | | |
| DF | | 4M | 30 | | 14 | | 14 | .2 | | | 14 | | | | | | | | |
| DF | | Totals | | | 6,677 | | 6,647 | 96.3 | | | 487 | 614 | 644 | 998 | 853 | 1628 | 1087 | 335 | |
| WH | | 2M | 40 | | 59 | 2.0 | 58 | 22.5 | | | | | | | 58 | | | | |
| WH | | 3M | 32 | | 20 | | 20 | 7.7 | | | | 13 | 7 | | | | | | |
| WH | | 3M | 36 | | 35 | | 35 | 13.6 | | | 35 | | | | | | | | |
| WH | | 3M | 40 | | 124 | | 124 | 48.1 | | | | 51 | 73 | | | | | | |
| WH | | 4M | 12 | | 1 | | 1 | .2 | | | 1 | | | | | | | | |
| WH | | 4M | 16 | | 4 | | 4 | 1.4 | | | 4 | | | | | | | | |
| WH | | 4M | 18 | | 6 | | 6 | 2.2 | | | 6 | | | | | | | | |
| WH | | 4M | 24 | | 2 | | 2 | .9 | | | 2 | | | | | | | | |
| WH | | 4M | 26 | | 8 | | 8 | 3.3 | | | 8 | | | | | | | | |
| WH | | Totals | | | 259 | | 258 | 3.7 | | | 56 | 63 | 81 | | 58 | | | | |
| Total | | All Species | | | 6,936 | | 6,904 | 100.0 | | | 543 | 678 | 725 | 998 | 853 | 1686 | 1087 | 335 | |

| TC PSTATS | | | | PROJECT STATISTICS | | | | PAGE | 1 | | |
|--|------|-------|-------|--------------------|--------|-----------|---------|-----------------|-----------|-----------|--------|
| | | | | PROJECT | | FOURCORN | | DATE | 4/30/2014 | | |
| TWP | RGE | SC | TRACT | TYPE | | ACRES | PLOTS | TREES | CuFt | BdFt | |
| 03N | 06 | 01 | 1 | 00MC | | 146.00 | 49 | 279 | S | W | |
| | | | | | | | | | | | |
| | | | | TREES | | ESTIMATED | PERCENT | | | | |
| | | | | TOTAL | | SAMPLE | | | | | |
| | | | | PLOTS | TREES | PER PLOT | TREES | TREES | | | |
| TOTAL | | | 49 | 279 | 5.7 | | | | | | |
| CRUISE | | | 23 | 121 | 5.3 | 15,346 | .8 | | | | |
| DBH COUNT | | | | | | | | | | | |
| REFOREST | | | | | | | | | | | |
| COUNT | | | 26 | 158 | 6.1 | | | | | | |
| BLANKS | | | | | | | | | | | |
| 100 % | | | | | | | | | | | |
| | | | | | | | | | | | |
| STAND SUMMARY | | | | | | | | | | | |
| SAMPLE | | | TREES | AVG | BOLE | REL | BASAL | GROSS | NET | GROSS | NET |
| TREES | | | /ACRE | DBH | LEN | DEN | AREA | BF/AC | BF/AC | CF/AC | CF/AC |
| DOUG FIR-T | | | 114 | 95.1 | 20.4 | 121 | 47.7 | 215.5 | 45,733 | 45,525 | 9,716 |
| WHEMLOCK-T | | | 7 | 10.0 | 13.9 | 96 | 2.8 | 10.6 | 1,774 | 1,765 | 398 |
| TOTAL | | | 121 | 105.1 | 19.9 | 119 | 50.7 | 226.1 | 47,507 | 47,291 | 10,114 |
| | | | | | | | | | | | |
| CONFIDENCE LIMITS OF THE SAMPLE | | | | | | | | | | | |
| 68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR | | | | | | | | | | | |
| | | | | | | | | | | | |
| CL | 68.1 | COEFF | | SAMPLE TREES - BF | | | | # OF TREES REQ. | | INF. POP. | |
| SD: | 1.0 | VAR.% | S.E.% | LOW | AVG | HIGH | 5 | | 10 | 15 | |
| DOUG FIR-T | | 65.1 | 6.1 | 669 | 712 | 756 | | | | | |
| WHEMLOCK-T | | 82.0 | 33.4 | 186 | 279 | 371 | | | | | |
| TOTAL | | 67.5 | 6.1 | 645 | 687 | 729 | 182 | 45 | 20 | | |
| | | | | | | | | | | | |
| CL | 68.1 | COEFF | | TREES/ACRE | | | | # OF PLOTS REQ. | | INF. POP. | |
| SD: | 1.0 | VAR.% | S.E.% | LOW | AVG | HIGH | 5 | | 10 | 15 | |
| DOUG FIR-T | | 44.6 | 6.4 | 89 | 95 | 101 | | | | | |
| WHEMLOCK-T | | 230.4 | 32.9 | 7 | 10 | 13 | | | | | |
| TOTAL | | 42.9 | 6.1 | 99 | 105 | 112 | 73 | 18 | 8 | | |
| | | | | | | | | | | | |
| CL | 68.1 | COEFF | | BASAL AREA/ACRE | | | | # OF PLOTS REQ. | | INF. POP. | |
| SD: | 1.0 | VAR.% | S.E.% | LOW | AVG | HIGH | 5 | | 10 | 15 | |
| DOUG FIR-T | | 38.6 | 5.5 | 204 | 216 | 227 | | | | | |
| WHEMLOCK-T | | 214.5 | 30.6 | 7 | 11 | 14 | | | | | |
| TOTAL | | 36.6 | 5.2 | 214 | 226 | 238 | 53 | 13 | 6 | | |
| | | | | | | | | | | | |
| CL | 68.1 | COEFF | | NET BF/ACRE | | | | # OF PLOTS REQ. | | INF. POP. | |
| SD: | 1.0 | VAR.% | S.E.% | LOW | AVG | HIGH | 5 | | 10 | 15 | |
| DOUG FIR-T | | 40.1 | 5.7 | 42,921 | 45,525 | 48,129 | | | | | |
| WHEMLOCK-T | | 215.6 | 30.8 | 1,222 | 1,765 | 2,309 | | | | | |
| TOTAL | | 38.1 | 5.4 | 44,722 | 47,291 | 49,860 | 58 | 14 | 6 | | |
| | | | | | | | | | | | |
| CL | 68.1 | COEFF | | NET CUFT FT/ACRE | | | | # OF PLOTS REQ. | | INF. POP. | |
| SD: | 1.0 | VAR.% | S.E.% | LOW | AVG | HIGH | 5 | | 10 | 15 | |
| DOUG FIR-T | | 39.5 | 5.6 | 9,169 | 9,716 | 10,263 | | | | | |
| WHEMLOCK-T | | 213.8 | 30.5 | 277 | 398 | 520 | | | | | |
| TOTAL | | 37.5 | 5.4 | 9,573 | 10,114 | 10,656 | 56 | 14 | 6 | | |

| TC | | PSPCSTGR | | Species, Sort Grade - Board Foot Volumes (Project) | | | | | | | | | | | | | | | | | |
|---------------------------------------|--------|----------|----------|--|------------------|--------|--------|------------------|----------------------------------|-------|-----|----------------|-------|-------|-------|-----------------------|-------------|----|-----|----------|-----------|
| <div>T03N R06W S01 Ty00MC146.00</div> | | | | Project: FOURCORN | | | | | | | | | | | | Page 1 | | | | | |
| | | | | Acres 146.00 | | | | | | | | | | | | Date 4/30/2014 | | | | | |
| | | | | | | | | | | | | | | | | Time 1:58:33PM | | | | | |
| Spp | S T | So rt | Gr ad | % | Bd. Ft. per Acre | | | Total Net MBF | Percent of Net Board Foot Volume | | | | | | | | Average Log | | | | Logs |
| | | | | Net | | | | | Def% | Gross | Net | Log Scale Dia. | | | | Log Length | | | | Ln Ft | Dia In |
| | | | | BdFt | 4-5 | 6-11 | 12-16 | | | | | 17+ | 12-20 | 21-30 | 31-35 | 36-99 | | | | | |
| DF | | | CU | | | | | | | | | | | | | | 3 | 20 | | 0.00 | 1.0 |
| DF | | | 2M | 73 | .6 | 33,726 | 33,531 | 4,895 | | | 47 | 53 | | 1 | 0 | 99 | 40 | 15 | 387 | 1.95 | 86.8 |
| DF | | | 3M | 23 | .1 | 10,424 | 10,412 | 1,520 | | 100 | 0 | | | 2 | 18 | 80 | 37 | 8 | 101 | 0.67 | 102.8 |
| DF | | | 4M | 4 | | 1,583 | 1,583 | 231 | | 100 | | | 48 | 52 | | | 19 | 6 | 22 | 0.34 | 71.0 |
| DF Totals | | | | 96 | .5 | 45,733 | 45,525 | 6,647 | | 26 | 35 | 39 | 2 | 3 | 4 | 91 | 33 | 10 | 174 | 1.13 | 261.4 |
| WH | | | CU | | | | | | | | | | | | | | 6 | 23 | | 0.00 | .4 |
| WH | | | 2M | 22 | 2.0 | 406 | 398 | 58 | | | 39 | 61 | | | | 100 | 40 | 17 | 425 | 2.12 | .9 |
| WH | | | 3M | 70 | | 1,226 | 1,226 | 179 | | 100 | | | | | 11 | 89 | 38 | 8 | 98 | 0.60 | 12.5 |
| WH | | | 4M | 8 | | 141 | 141 | 21 | | 100 | | | 48 | 52 | | | 20 | 6 | 23 | 0.29 | 6.0 |
| WH Totals | | | | 4 | .5 | 1,774 | 1,765 | 258 | | 77 | 9 | 14 | 4 | 4 | 8 | 84 | 32 | 8 | 89 | 0.63 | 19.9 |
| Totals | | | | | 0.5 | 47,507 | 47,291 | 6,904 | | 28 | 34 | 38 | 2 | 3 | 4 | 91 | 33 | 10 | 168 | 1.09 | 281.3 |

| TC | | PSTNDSUM | | Stand Table Summary | | | | | | | | | | Page | | 1 | |
|-----------------------------|---|----------|-----------------|---------------------|----------------|-------------|--------------|-------------|---------------|---------------|-----------------------|-----------------------|---------------|-----------|--------|-----------|--|
| | | | | | | | | | | | | | | Date: | | 4/30/2014 | |
| T03N R06W S01 Ty00MC 146.00 | | | | Project | | FOURCORN | | | | | | Time: | | 1:58:33PM | | | |
| | | | | Acres | | 146.00 | | | | | | Grown Year: | | | | | |
| S Sp | T | Tot | | | Trees/ Acre | BA/ Acre | Logs Acre | Average Log | | Tons/ Acre | Net Cu.Ft. Acre | Net Bd.Ft. Acre | T o t a l s | | | | |
| | | DBH | Sample Trees | FF 16' | | | | Av Ht | Net Cu.Ft. | | | | Net Bd.Ft. | Tons | Cunits | MBF | |
| DF | | 10 | 1 | 88 | 82 | 3.466 | 1.89 | 3.47 | 12.8 | 60.0 | 1.26 | 44 | 208 | 184 | 65 | 30 | |
| DF | | 12 | 3 | 87 | 99 | 7.221 | 5.67 | 14.44 | 11.9 | 50.0 | 4.90 | 172 | 722 | 716 | 251 | 105 | |
| DF | | 13 | 4 | 88 | 95 | 8.204 | 7.56 | 16.41 | 14.1 | 57.5 | 6.58 | 231 | 943 | 961 | 337 | 138 | |
| DF | | 14 | 1 | 86 | 122 | 1.768 | 1.89 | 3.54 | 20.0 | 90.0 | 2.02 | 71 | 318 | 295 | 103 | 46 | |
| DF | | 15 | 4 | 88 | 96 | 6.162 | 7.56 | 12.32 | 20.2 | 85.0 | 7.11 | 249 | 1,048 | 1,038 | 364 | 153 | |
| DF | | 16 | 2 | 85 | 132 | 2.708 | 3.78 | 8.12 | 20.1 | 91.7 | 4.65 | 163 | 745 | 678 | 238 | 109 | |
| DF | | 17 | 11 | 89 | 123 | 13.193 | 20.79 | 38.38 | 22.6 | 97.5 | 24.75 | 869 | 3,742 | 3,614 | 1,268 | 546 | |
| DF | | 18 | 4 | 89 | 131 | 4.279 | 7.56 | 12.84 | 26.3 | 115.0 | 9.61 | 337 | 1,476 | 1,404 | 493 | 216 | |
| DF | | 19 | 8 | 89 | 125 | 7.681 | 15.12 | 22.08 | 29.5 | 129.1 | 18.59 | 652 | 2,852 | 2,714 | 952 | 416 | |
| DF | | 20 | 9 | 90 | 132 | 7.799 | 17.01 | 23.40 | 33.8 | 157.4 | 22.53 | 791 | 3,683 | 3,290 | 1,154 | 538 | |
| DF | | 21 | 2 | 89 | 142 | 1.572 | 3.78 | 4.72 | 39.3 | 190.0 | 5.28 | 185 | 896 | 770 | 270 | 131 | |
| DF | | 22 | 5 | 89 | 134 | 3.581 | 9.45 | 10.74 | 42.0 | 196.7 | 12.85 | 451 | 2,113 | 1,875 | 658 | 308 | |
| DF | | 23 | 5 | 90 | 129 | 3.276 | 9.45 | 9.83 | 43.9 | 200.7 | 12.30 | 431 | 1,972 | 1,795 | 630 | 288 | |
| DF | | 24 | 7 | 90 | 135 | 4.212 | 13.23 | 12.64 | 49.9 | 232.9 | 17.98 | 631 | 2,943 | 2,626 | 921 | 430 | |
| DF | | 25 | 2 | 88 | 132 | 1.109 | 3.78 | 3.33 | 52.4 | 241.7 | 4.97 | 174 | 804 | 725 | 254 | 117 | |
| DF | | 26 | 3 | 87 | 129 | 1.538 | 5.67 | 5.13 | 49.5 | 228.0 | 7.23 | 254 | 1,169 | 1,056 | 370 | 171 | |
| DF | | 27 | 8 | 87 | 134 | 3.804 | 15.12 | 11.89 | 59.3 | 271.2 | 20.10 | 705 | 3,224 | 2,934 | 1,030 | 471 | |
| DF | | 28 | 13 | 89 | 136 | 5.747 | 24.58 | 18.57 | 63.5 | 311.0 | 33.60 | 1,179 | 5,774 | 4,906 | 1,721 | 843 | |
| DF | | 29 | 5 | 88 | 141 | 2.061 | 9.45 | 7.01 | 67.9 | 334.7 | 13.55 | 475 | 2,345 | 1,978 | 694 | 342 | |
| DF | | 30 | 4 | 87 | 144 | 1.540 | 7.56 | 5.78 | 66.3 | 328.7 | 10.91 | 383 | 1,899 | 1,593 | 559 | 277 | |
| DF | | 31 | 2 | 89 | 141 | .721 | 3.78 | 2.52 | 76.6 | 398.6 | 5.51 | 193 | 1,006 | 805 | 282 | 147 | |
| DF | | 32 | 3 | 89 | 148 | 1.015 | 5.67 | 4.06 | 73.4 | 392.5 | 8.50 | 298 | 1,594 | 1,241 | 435 | 233 | |
| DF | | 33 | 2 | 86 | 137 | .637 | 3.78 | 2.23 | 82.1 | 387.1 | 5.21 | 183 | 863 | 761 | 267 | 126 | |
| DF | | 34 | 5 | 89 | 144 | 1.499 | 9.45 | 6.00 | 82.6 | 442.5 | 14.12 | 495 | 2,654 | 2,061 | 723 | 387 | |
| DF | | 36 | 1 | 89 | 144 | .267 | 1.89 | 1.07 | 91.9 | 500.0 | 2.80 | 98 | 535 | 409 | 144 | 78 | |
| DF | | Totals | 114 | 88 | 121 | 95.060 | 215.51 | 260.49 | 37.3 | 174.8 | 276.91 | 9,716 | 45,525 | 40,429 | 14,186 | 6,647 | |
| WH | | 10 | 1 | 86 | 67 | 2.780 | 1.52 | 2.78 | 13.4 | 60.0 | 1.19 | 37 | 167 | 173 | 54 | 24 | |
| WH | | 12 | 2 | 88 | 99 | 3.861 | 3.03 | 7.72 | 13.7 | 57.5 | 3.39 | 106 | 444 | 495 | 155 | 65 | |
| WH | | 15 | 2 | 88 | 118 | 2.471 | 3.03 | 6.18 | 21.4 | 96.0 | 4.23 | 132 | 593 | 618 | 193 | 87 | |
| WH | | 23 | 1 | 93 | 124 | .525 | 1.52 | 1.58 | 46.4 | 223.3 | 2.34 | 73 | 352 | 342 | 107 | 51 | |
| WH | | 26 | 1 | 83 | 109 | .411 | 1.52 | 1.23 | 40.4 | 170.0 | 1.59 | 50 | 210 | 233 | 73 | 31 | |
| WH | | Totals | 7 | 88 | 96 | 10.048 | 10.61 | 19.49 | 20.4 | 90.6 | 12.75 | 398 | 1,765 | 1,861 | 582 | 258 | |
| Totals | | | 121 | 88 | 119 | 105.108 | 226.12 | 279.98 | 36.1 | 168.9 | 289.65 | 10,114 | 47,291 | 42,290 | 14,767 | 6,904 | |



Legend

- Timber Sale Boundary
- Highways
- Surfaced Road
- - - Unsurfaced Road
- - New Road Construction
- - Posted R/W Boundary
- //// Recreation Trail
- Fish Stream
- Nonfish Stream
- Stream Buffer Boundary
- Stream Buffer
- Tractor Yarding Area
- Tractor Landings
- Green Tree Retention Area
- ODF Ownership Boundary
- Sections
- Underground Utility Line
- 400 Foot Contour Band
- 80 Foot Contour Band
- W Waste Area

LOGGING PLAN

FOR TIMBER SALE CONTRACT # 341-15-27
FOUR CORNERS
PORTIONS OF SECTIONS 35 & 36, T4N, R6W, W.M.
CLATSOP COUNTY, OREGON
AND PORTIONS OF SECTION 1, T3N, R6W, W.M.
TILLAMOOK COUNTY, OREGON

Forest Grove District GIS
May, 2014

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



1:12,000
1 inch = 1,000 feet



APPROXIMATE NET ACRES

| | TRACTOR | CABLE |
|--------|---------|-------|
| AREA 1 | 71 | 0 |
| AREA 2 | 75 | 0 |
| TOTAL | 146 | 0 |