



"STEWARDSHIP IN FORESTRY"

# Timber Sale Appraisal Cost Summary Quarter Pruned Sale 341-04-45

District: Tillamook

Date: 8/6/03

	Conifer	Hardwood	Total
<b>Gross Timber Sale Value</b>	\$151,761.75	\$0.00	\$151,761.75
		<b>Project Work</b>	\$0.00
		<b>Advertised Value</b>	\$151,761.75



# Timber Sale Appraisal Timber Description Quarter Pruned Sale 341-04-45

"STEWARDSHIP IN FORESTRY"

**District:** Tillamook

**Location:** Section 25, T2S, R7W, W.M., Tillamook County, Oregon

**Date:** 8/6/03

**Stand Stocking:** 60%

Species	Avg. DBH	Amortized%	Recovery%
Douglas - Fir	12	0	95

Volume by Grade	Douglas - Fir	Total
3S	949	949
4S	106	106
Total	1,055	1,055

**Comments:** Pond Values Used: 2nd Quarter 2003

Road Maintenance: \$6.34

Shaping Headquarters Grade prior to hauling:  $\$750/\text{mile} \times 1.25 \text{ Miles} / 1055\text{MBF} = \$0.89$

Grading:  $\$500/\text{mile} \times 9 \text{ miles} \times 1 \text{ grading} / 1055 \text{ MBF} = \$4.27$

Surfacing:  $\$5.00/\text{yard} \times 25 \text{ yards/mile} \times 10 \text{ miles} / 1055 \text{ MBF} = \$1.18$

Other Costs (profit and risk added): \$2110

Brand and Paint:  $\$2.00/\text{MBF} \times 1055 \text{ MBF} = \$2110$

Other Costs (profit and risk included):\$6,160

Road improvement/construction:

Spur 1: 23 Stations X \$120/Station = \$2760

Spur 2: 18 Stations X \$120/Station = \$2160

Spur 3: 3 Stations X \$120/Station = \$360

Spur 4: 3 Stations X \$120/Station = \$360

Total: \$5640

Move in: \$520

Alder price: \$510 pond value - \$338.61 logging cost = \$171.39 stumpage value



# Timber Sale Appraisal

## Logging Conditions

### Quarter Pruned

### Sale 341-04-45

"STEWARDSHIP IN FORESTRY"

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**Combination#: 1** Douglas - Fir 66.00%

**Yarding Distance:** Medium (800 ft) **Downhill Yarding:** No

**Logging System:** Cable: Small Tower <=40 **Process:** Manual Delimiting

**Tree Size:** Small / Thinning 9in (70 Bft/tree), 20+ logs/MBF

**Loads/Day:** 4 **Bd. Ft./Load:** 3,200

**Cost/MBF:** \$201.41

**Machines:**

- Log Loader (A)
- Tower Yarder (Small)

**Combination#: 2** Douglas - Fir 34.00%

**Yarding Distance:** Short (400 ft) **Downhill Yarding:** Yes

**Logging System:** Track Skidder **Process:** Feller Buncher

**Tree Size:** Small / Thinning 9in (70 Bft/tree), 20+ logs/MBF

**Loads/Day:** 6 **Bd. Ft./Load:** 3,200

**Cost/MBF:** \$183.27

**Machines:**

- Feller Buncher w/ Delimber
- Log Loader (B)
- Stroke Delimber (B)
- Track Skidder



# Timber Sale Appraisal Logging Costs Quarter Pruned Sale 341-04-45

"STEWARDSHIP IN FORESTRY"

Date: 8/6/03

Operating Seasons: 1.0

Profit & Risk: 20%

Project Costs: \$0

Other Costs (P/R): \$2,110

Slash Disposal: \$0

Other Costs: \$6,160

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

Road Maintenance: \$6.34

### Hauling Costs

Species	\$/MBF	Trips/Day	MBF/Load
Douglas - Fir	\$0.00	2.0	3.2



"STEWARDSHIP IN FORESTRY"

# Timber Sale Appraisal Logging Costs Breakdown Quarter Pruned Sale 341-04-45

Costs	Douglas - Fir
<b>Logging</b>	195.24
<b>Road Maintenance</b>	6.67
<b>Fire Protection</b>	2.57
<b>Hauling</b>	69.16
<b>Other (P/R appl.)</b>	2.00
<b>Profit &amp; Risk</b>	55.13
<b>Slash Disposal</b>	0.00
<b>Scaling</b>	2.00
<b>Other</b>	5.84
<b>Total</b>	338.61

<b>Amortization</b>	0.00
<b>Pond Value</b>	482.46
<b>Stumpage</b>	143.85
<b>Amortized</b>	0.00



"STEWARDSHIP IN FORESTRY"

# Timber Sale Appraisal Summary Quarter Pruned Sale 341-04-45

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## Amortized

	Douglas - Fir
MBF	0.00
Value	0.00
Total	0.00

## Unamortized

	Douglas - Fir
MBF	1,055.00
Value	143.85
Total	151,761.75

## Gross Timber Sale Value

**Recovery \$151,761.75**

Prepared by: Ed Keith

Date: 8/6/03

District: Tillamook

Phone: (503) 842-2545



## OREGON DEPARTMENT OF FORESTRY CRUISE REPORT

### *Quarter Pruned*

"STEWARDSHIP IN FORESTRY"

1. **Type of Sale:** Partial Cut, Recovery
2. **Legal Description:** Section 25, T2S, R7W, W.M. Tillamook County, Oregon.
3. **Sale Acreage:** The sale boundaries were plotted on a digital orthophotograph and the acreage was calculated with GIS.

ACREAGES			
Harvest Type	Sale	Total	Net
Partial Cut	211	169	169

#### **Sale acres:**

Area within the Timber Sale Boundary signs.

#### **Total acres:**

*For accomplishment reporting*

**Clearcut harvest** - 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.

**Partial Cut** - Sale acres less areas of low stocking, hardwoods, roads, and riparian areas classified as Special Stewardship in LMCS inside the sale boundary.

#### **Net acres:**

*Used for calculating the advertised volume.*

**Clearcut** - Sale acres, less green tree retention, roads, and riparian areas classified as Special Stewardship in LMCS inside the sale boundary.

**Partial Cut** - Same as total acres.

4. **Cruising Procedures:**

#### **A: Cruise Method:**

A total of 27 plots were taken. Cruise lines and plots were placed to obtain representative sampling intensities throughout the sale area. All trees and snags were recorded by diameter class. Diameters were measured to the nearest inch, heights to the nearest foot. Trees less than 10" DBH were not sampled. Tree count by diameter and species was recorded on all plots and one tree per plot was measured to obtain volume to basal area (VBAR) and grade information.

#### **B: Plot size**

A 20 BAF was used for all plots. Trees were sighted at 4.5'.



**C: Grading System:** Douglas-fir was measured and graded to a 6" top favoring 40 foot log lengths using Columbia River rules. Grade breakdown was determined by using the grade information gathered by measuring the VBAR trees.

5. **Computation Procedure:** VBAR trees were entered into Superace to obtain VBAR information, and plot data was entered into spreadsheets to obtain basal areas, stand tables and diameters. These data were entered into the Volume Summary Worksheet to compute sale volumes.
6. **Defect and Breakage:** A 5% reduction for defect and breakage was applied to the volume.
7. **Timber Description:** The north portion of the sale area burned in the 1933 Tillamook fire and the entire sale area burned in the 1939 Tillamook fire. The sale area contains 35 year old Douglas-fir and portions of the sale area were pre-commercially thinned and pruned in 1993.
8. **Cruiser Names/Dates:** Ed Keith, Elissa Wells, Ellen Sanford, May and June 2003.
9. **Revenue Distribution:**  
100% FDF  
Tax Code: 8-1  
Deed Numbers: 169  
Rehabilitation Obligated: 100%
10. **Attachments:**  
Volume Summary  
Logging Plan



"STEWARDSHIP IN FORESTRY"

## Quarter Pruned

### Volume Summary

169 acres						
SPECIES	Basal Area Per Acre	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	73	90	6.6	1110	5%	1055
<b>TOTAL</b>				1110		1055

<b>TOTAL SALE VOLUME</b>			
SPECIES	MBF		Net Vol. (MBF)
Douglas-fir	1110	5%	1055
<b>TOTAL</b>			<b>1055</b>



"STEWARDSHIP IN FORESTRY"

## Quarter Pruned Stand Table

DBH	Take Trees	Leave Trees	Number of Plots	Take Trees per Acre	Leave Trees per Acre	Trees per Acre
8"	0	0	27	0.0	0.0	0.0
9"	0	0	27	0.0	0.0	0.0
10"	30	5	27	41.1	6.9	48.0
11"	19	8	27	21.1	8.9	30.0
12"	16	18	27	15.4	17.3	32.7
13"	14	22	27	11.3	17.7	28.9
14"	10	27	27	7.0	19.0	26.0
15"	5	18	27	3.0	10.9	13.9
16"	3	24	27	1.6	12.4	14.0
17"	0	0	27	0.0	0.0	0.0
18"	1	21	27	0.4	8.6	9.0
19"	0	0	27	0.0	0.0	0.0
20"	0	7	27	0.0	2.3	2.3
21"	0	0	27	0.0	0.0	0.0
22"	0	6	27	0.0	1.8	1.8
24"	0	5	27	0.0	1.1	1.1
26"	0	1	27	0.0	0.2	0.2
28"	0	1	27	0.0	0.2	0.2
30"	0	0	27	0.0	0.0	0.0
32"	0	0	27	0.0	0.0	0.0
34"	0	0	27	0.0	0.0	0.0
36"	0	0	27	0.0	0.0	0.0
<b>Total</b>	<b>98</b>	<b>163</b>		<b>101</b>	<b>107</b>	<b>208</b>

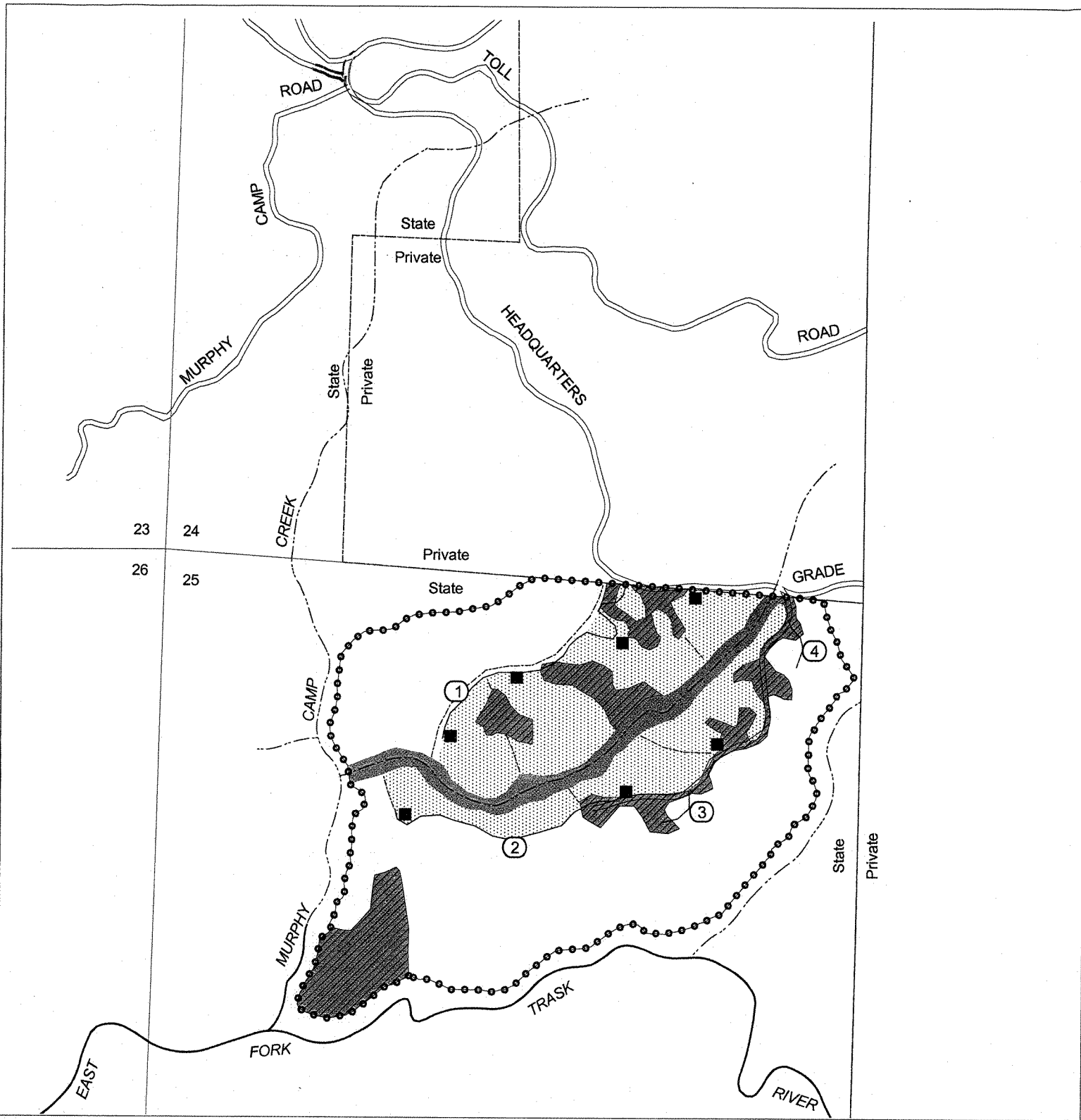
BA(acre)	193
BA(tree)	0.93
Lv BA/ac	120
Tk BA/ac	73

Trees/plt	9.7	Trees/ac	208
Tk trs/plt	3.6	Tk trs/ac	101
Lv trs/plt	6.0	Lv trs/ac	107

Current Ave Stand Diameter	13.1
Leave Stand - QM Diameter	14.3
Take trees - QM Diameter	11.5

Current SDI	0.53
Leave SDI	0.32

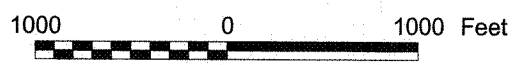
Relative Density	54
Relative Den. - Leave	32



- Tractor landing
- Cable landing
- ▲ Domestic water supply
- ⊗ Block
- Cable yarding
- ▨ Ground yarding
- ▩ Helicopter yarding
- Buffer
- Non-required thinning
- ▨ Green tree retention area
- Setting boundary
- - - Area boundary
- Sale boundary
- Ownership boundary
- Type-F stream
- - - 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. 341-04-45  
 Quarter Pruned  
 Portions of Section 25, T2S, R7W, W. M.  
 Tillamook County, Oregon

Area	Type of Operation	Acres Sale Net
1	Partial Cut	211 169
Total		211 169





"STEWARDSHIP IN FORESTRY"

## Oregon Department of Forestry

### WRITTEN PLAN

**SALE NAME:** Quarter Pruned

**PROTECTED WATERS:** East Fork of the South Fork Trask, Murphy Camp Creek

**LOCATION:** Portions of Section 25, T2S, R7W, W.M., Tillamook County, Oregon.

#### **Riparian Management Area:**

The area measured 100 feet slope distance from the high water mark on East Fork of the South Fork Trask, Murphy Camp Creek.

#### **Protection Measures:**

##### **Yarding Systems, Layout, and Stream Protection**

When yarding with cables hanging within or across the streams, cables will be pulled out of the Riparian Management Area prior to rigging the next yarding road. Yarding roads will be spaced an average of 150 feet apart where they extend over or through the riparian management area.

**Date:** June 16, 2003

**By:** Ed Keith