



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Cost Summary Deer Creek Thin Sale 341-02-03

District: West Oregon

Date: 7/9/01

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$79,057.44	\$0.00	\$79,057.44
	Project Work		(\$15,233.00)
	Advertised Value		\$63,824.44



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal **Timber Description** **Deer Creek Thin** **Sale 341-02-03**

District: West Oregon

Location: Portions of Sections 26 & 35, T11S, R9W, and Section 2, T12S, R9W, W.M., Lincoln County, Oregon

Date: 7/9/01

Stand Stocking: 60%

Species	Avg. DBH	Amortized%	Recovery%
Douglas - Fir	10	0	100

Volume by Grade	Douglas - Fir	Total
3S	311	311
4S	185	185
Total	496	496

Comments: Pond Values Used: 2nd Quarter 2001 + Local Pond Values

Other Costs, no Profit and Risk:
 Extra Scaling @ \$2.00/Mbf = \$992

Other Costs, Including Profit and Risk
 Dust Abatement \$862



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal

Logging Conditions

Deer Creek Thin

Sale 341-02-03

Combination#: 1	Douglas - Fir	39.33%
Yarding Distance:	Short (400 ft)	Downhill Yarding No
Logging System:	Cable: Small Tower <=40	Process: Stroke Delimber
Tree Size:	Small / Thinning 9in (70 Bft/tree), 20+ logs/MBF	
Loads/Day:	4	Bd. Ft./Load: 3,000
Cost/MBF:	\$231.06	
Machines:		
	Log Loader (A)	
	Stroke Delimber (A)	
	Tower Yarder (Small)	
Combination#: 2	Douglas - Fir	60.67%
Yarding Distance:	Short (400 ft)	Downhill Yarding No
Logging System:	Cut To Length	Process: Harvester Head Delimbing
Tree Size:	Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF	
Loads/Day:	5	Bd. Ft./Load: 3,000
Cost/MBF:	\$174.71	
Machines:		
	Forwarder	
	Harvester	



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal **Logging Costs** **Deer Creek Thin** **Sale 341-02-03**

Date: 7/9/01

Operating Seasons: 2.0

Profit & Risk: 25%

Project Costs: \$15,233

Other Costs (P/R): \$862

Slash Disposal: \$2,635

Other Costs: \$992

Road Maintenance: \$0.00

Miles of Road			
Dirt	Rock (Contractor)	Rock (State)	Paved
0.5	4.5	0.0	0.0

Hauling Costs

Species	\$/MBF	Trips/Day	MBF/Load
Douglas - Fir	\$0.00	3.0	3.0

Local Pond Values

Date	Species	Grade	Value
7/9/01	Douglas - Fir	2S	\$550.00
7/9/01	Douglas - Fir	3S	\$520.00
7/9/01	Douglas - Fir	4S	\$460.00



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Logging Costs Breakdown Deer Creek Thin Sale 341-02-03

Costs	Douglas - Fir
Logging	196.88
Road Maintenance	2.49
Fire Protection	10.93
Hauling	51.10
Other (P/R appl.)	1.74
Profit & Risk	65.78
Slash Disposal	5.31
Scaling	2.00
Other	2.00
Total	338.23

Amortization	0.00
Pond Value	497.62
Stumpage	159.39
Amortized	0.00



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Summary Deer Creek Thin Sale 341-02-03

Amortized

	Douglas - Fir
MBF	0.00
Value	0.00
Total	0.00

Unamortized

	Douglas - Fir
MBF	496.00
Value	159.39
Total	79,057.44

Gross Timber Sale Value

Recovery \$79,057.44

Prepared by: Eric Foucht

Date: 7/9/01

District: West Oregon

Phone: (541) 929-9159

SUMMARY OF ALL PROJECT COSTS

Sale Name: Deer Creek Thin

Date:

April 2001

Project #1 - New Construction

<u>Road Segment</u>	<u>Length</u>	<u>Cost</u>	
C1 to C2	6.8 sta	\$1,011	
C3 to C4	9.3 sta	\$1,006	
D1 to D2	10.0 sta	\$1,212	
G1 to G5	4.4 sta	\$542	
H to H1	17.3 sta	\$3,024	
H to H2	5.1 sta	\$609	
TOTALS	52.9 sta		\$7,404

Project #2 - Improvements

<u>Road Segment</u>	<u>Length</u>	<u>Cost</u>	
A to B	212.9 sta	\$1,502	
TOTALS			\$1,502

Project #3 - Brushing

Roadside Brushing - 97.6 sta.	\$1,208	
TOTAL		\$1,208

Project #4 - Post Harvest

Landing patch rock & tank traps		\$1,873	
Culvert Cleaning	17 culverts	\$290	
C5-D (Slough Removal)	16.6 sta	\$387	
I-I1	7.2 sta	\$121	
Grading	119.3 sta	\$1,022	
TOTAL			\$3,693

Move in

	<u>Cost</u>	<u>On-site move</u>	
Crawler tractor, D-7 or equiv.	\$387	\$18	
Grader, Cat 14-G or equiv.	\$241	\$14	
Dump truck, 10cy or equiv.	\$121		
Backhoe, Case 580 or equiv.	\$241	\$5	
Mechanical Brusher	\$241		
Water truck 3000 gal	\$158		
TOTAL			\$1,426

GRAND TOTAL \$15,233

Compiled by C. Humcke, J. Doyal, & D. Wiger

Date 4/17/01

TIMBER SALE SUMMARY

Sale Name: Deer Creek Thin

Sale Type: Commercial thinning on 136 net acres, 97% BOF, 3% CSL, recovery sale.

Sale Area: Portions of Sections 26 & 35, T11S, R9W, and Section 2, T12S, R9W, W.M., Lincoln County

Access: From Philomath, proceed west on Highway 20 for 23.5 miles to Salmon Creek road. Travel south on Salmon Creek road 3 miles to Baber Ridge road and then west on Baber Ridge road 0.8 miles to Deer Creek road. Proceed on Deer Creek road 0.5 miles to Area I, and an additional 0.3 miles to Area II.

Boundaries: The timber sale boundaries are posted with "Timber Sale Boundary" signs, and fluorescent pink flagging on the entire perimeter. The property lines are also marked with fluorescent red paint.

Timber

Description: The sale area is comprised of two 27 year-old plantations consisting primarily of Douglas-fir but including some concentrations of red alder. Currently Area I has an average of 142 square feet of basal area, an average diameter of 10.9 inches and an average relative density of 42. Area II has an average of 174 square feet of basal area, an average diameter of 11.6 inches and an average relative density of 49. This thinning will reduce the average basal area of both stands to 120 square feet. After harvest the relative density is expected to be 30 and the average stem diameter is expected to be 12 inches. The average stem diameter of the trees removed is 10 inches.

Topography: The sale is located on landforms that vary from steep and deeply divided to relatively flat and benchy. All existing roads or roads to be constructed with the timber sale are located on stable topography.

Streams: There are small Type N perennial streams in the lower elevations of both sale areas. These streams have unposted 25-foot horizontal distance buffers on either side of them. No trees may be felled within these buffers. In addition there are several seasonal Type N streams within the sale area. Cable yarding may occur across any Type N stream, but full suspension of logs will be required. There are no Type F streams within the sale area.

Reserve

Trees: All hardwoods and all conifer species other than Douglas fir are reserved. In addition, all snags and down wood are reserved.

T&E Surveys: Since the Area biologist determined that the sale is not located on or near suitable habitat for northern spotted owl or marbled murrelets, no surveys for either of these species were required.

Logging

Method: Approximately thirty nine percent of the sale area will require a cable logging system. The remaining 61% may be logged with a ground-based equipment.

Projects:

- No. 1: 1.0 miles of new road construction
- No. 2: 4.0 miles of road improvements.
- No. 3: 1.9 miles of Roadside Brushing.
- No. 4: Post Harvest Work

Cruise Summary:**Volumes (MBF)** **Gross Acres = 142; Net Acres = 136**

	Net Acres	Species	Gross Volume	Net Volume	Hidden D&B	Final Adjusted Volume
Area I	53	Douglas -fir	134	128	2%	125
Area II	83	Douglas-fir	381	378	2%	371

Total = 496**Grade in %**

	Species	3 Saw	4 Saw
Area I	Douglas-fir	58	42
Area II	Douglas-fir	64	36

Methods: The cruise consisted of data gathered on 127 variable radius plots using a 20 BAF prism. The plots were spaced at 3 chain intervals on lines spaced 3 chains apart. Individual plots were thinned from below by designating sufficient trees for removal to reduce the residual stand's relative density to 30. Hardwoods were ignored. Measure trees were selected from those within a nested 40 BAF plot that were designated by the cruiser as a "take" tree. A total of 174 Douglas fir trees were measured and graded.

Tree Form: The form point is at 16 feet. Form factors were determined for each measured conifer by first determining the number of relaskop bars at the form point and then dividing by the number of bars at DBH.

Measurement

Standards: Heights were measured to the nearest foot to a top cruise diameter of 6 inches inside bark. Diameters were measured at breast height to the nearest inch.

Grading

System: All conifer trees were graded in 40-foot segments unless breakage, defect or length to top cruise diameter warranted otherwise.

Utilization

Standards: A minimum log segment of 6 inches in diameter (inside bark) by 12 feet in length was used. All trees 8 inches dbh and 17 feet in length and larger were cruised.

Hidden Defect

& Breakage: A hidden D&B of 2% was applied to the net cruised volume of Douglas-fir.

Computation

Procedures: All cruise computations were done at the West Oregon District Office using Atterbury's SuperAce program. The sale volume was calculated for 136 acres. Acres were determined with the use of digital orthographic photography.

Cruisers: Kennedy, McMinds, Foucht

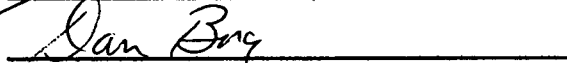
Cruise Dates: November of 2000.

Signatures:

Cruise Specialist:



Unit Forester:



WRITTEN PLAN

Sale Name: Deer Creek Thin

Location: Portions of Section 26 & 35, T11S, R9W, W.M., Lincoln County.

Landowner: Oregon Department of Forestry; 24533 Alsea Hwy., Philomath, Oregon.

Contract Purchaser: _____

Notification No.: _____

This written plan is prepared to comply with the requirements for prior approval through a written plan as provided for by the Forest Practices Act (ORS 629-630-500(1), and 629-24-549, (Harvesting on High Risk Sites). The measures to be taken comply with Best Management Practices and requirements of the Forest Practice Act.

Proposed Activity

This is a partial cut (thinning) in which we intend to reduce the stocking from 142 square feet of basal area on 220 trees per acre to 100 square feet of basal area on 145 trees per acre.

Protected Resource

The protected resource in this case is the waters of the State located downhill from the high risk site.

Situation

Several Type N seasonal and perennial streams are downhill from a portion of the sale area showing signs of mass movement. In addition, portions of some stream banks appear to have incised channels.

Protection Measures:

A minimum of one end of logs will be suspended during yarding over areas of potential mass soil movement and logs will be fully suspended over all the streams shown on the attached map. In addition, no more than incidental soil gouging will be allowed. Roads, landings and waste material will be placed only on stable locations.

Methods:

On the portion of the harvest area that is yarded with a cable system, one end suspension over high risk sites and full suspension over streams will be achieved with the use of intermediate supports. To minimize soil gouging, ground-based yarding will be restricted to slopes less than 35% and will not be allowed from October 1 through May 31. Skid roads will be limited to 10 percent of the ground yarded area and equipment operations will be restricted to these skid roads.

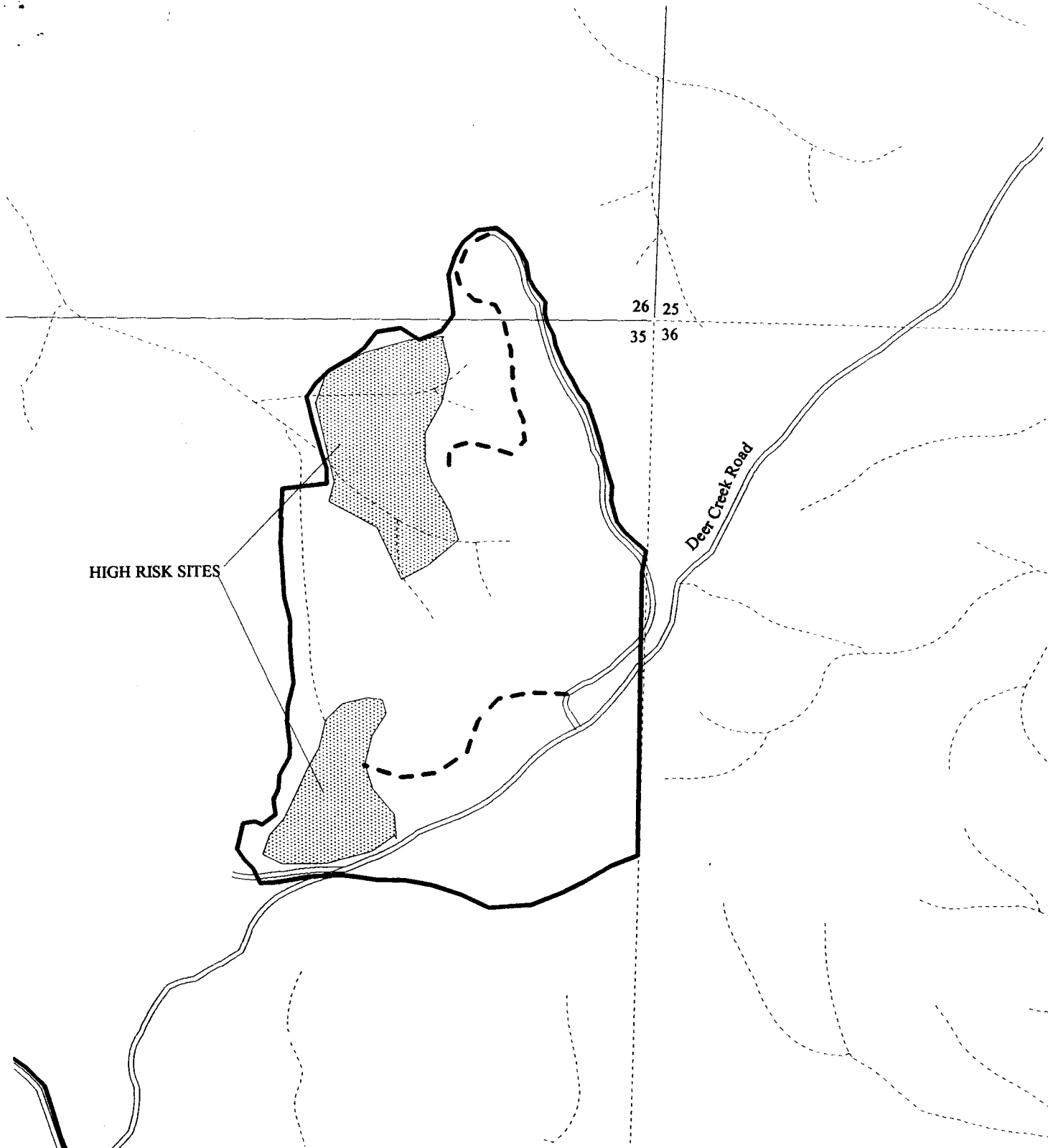
APPROVED:

Purchaser

Date

Forest Practices Forester

Date



DEER CREEK THIN AREA I
WRITTEN PLAN MAP
PORTIONS OF SECTIONS 26 & 35, T11S, R9W, W.M.
LINCOLN COUNTY, OREGON

- Sale Area
- Surfaced Existing Roads
- New Road Construction
- Streams
- Type F
- Type N
- State Forest Property Line
- High Risk Sites

500 0 500 1000 Feet

