



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Cost Summary Dry Stulls Sale 341-05-68

District: Coos

Date: 11/12/04

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$1,836,350.52	\$30,789.36	\$1,867,139.88
		Project Work	(\$46,657.00)
		Advertised Value	\$1,820,482.88



Timber Sale Appraisal Timber Description Dry Stulls Sale 341-05-68

"STEWARDSHIP IN FORESTRY"

District: Coos

Location: The sale is located in a portion of Section 33, T23S, R11W, and portions of Sections 3, 4, and 9, T24S R11W, W.M., Coos County, Oregon.

Date: 11/12/04

Stand Stocking: 60%

Species	Avg. DBH	Amortized%	Recovery%
Douglas - Fir	25	0	95
Western Hemlock / Fir	15	0	95
Alder (Red)	15	0	90

Volume by Grade	Douglas - Fir	Western Hemlock / Fir	Alder (Red)	Total
3P	132	0	0	132
SM	178	0	0	178
2S	2,276	4	20	2,300
3S	998	21	36	1,055
4S	0	12	16	28
Total	3,584	37	72	3,693

Comments: Pond Values Used: 3rd Quarter 2004.

Regeneration sale of 101 to 123 year old timber.



Timber Sale Appraisal Logging Conditions Dry Stulls Sale 341-05-68

"STEWARDSHIP IN FORESTRY"

Combination#: 1	Douglas - Fir	100.00%	
	Western Hemlock / Fir	100.00%	
	Alder (Red)	100.00%	
Yarding Distance:	Medium (800 ft)		Downhill Yarding: No
Logging System:	Cable: Large Tower >=70		Process: Manual Delimiting
Tree Size:	Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF		
Loads/Day:	14		Bd. Ft./Load: 4,800
Cost/MBF:	\$52.83		
Machines:			
	Log Loader (A)		
	Tower Yarder (Large)		



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal

Logging Costs

Dry Stulls

Sale 341-05-68

Date: 11/12/04

Operating Seasons: 1.0

Profit & Risk: 15%

Project Costs: \$46,657

Other Costs (P/R): \$8,122

Slash Disposal: \$0

Other Costs: \$0

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

Road Maintenance: \$0.00

Hauling Costs

Species	\$/MBF	Trips/Day	MBF/Load
Douglas - Fir	\$0.00	2.0	4.5
Western Hemlock / Fir	\$0.00	2.0	3.5
Alder (Red)	\$0.00	3.0	3.5



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Logging Costs Breakdown Dry Stulls Sale 341-05-68

Costs	Douglas - Fir	Western Hemlock / Fir	Alder (Red)
Logging	52.83	52.83	52.83
Road Maintenance	0.27	0.27	0.29
Fire Protection	0.73	0.73	0.73
Hauling	53.79	69.16	48.67
Other (P/R appl.)	2.20	2.20	2.20
Profit & Risk	16.47	18.78	15.71
Slash Disposal	0.00	0.00	0.00
Scaling	2.00	2.00	0.00
Other	0.00	0.00	0.00
Total	128.29	145.97	120.43

Amortization	0.00	0.00	0.00
Pond Value	637.89	414.73	548.06
Stumpage	509.60	268.76	427.63
Amortized	0.00	0.00	0.00



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Summary Dry Stulls Sale 341-05-68

Amortized

	Douglas - Fir	Westem Hemlock / Fir	Alder (Red)
MBF	0.00	0.00	0.00
Value	0.00	0.00	0.00
Total	0.00	0.00	0.00

Unamortized

	Douglas - Fir	Westem Hemlock / Fir	Alder (Red)
MBF	3,584.00	37.00	72.00
Value	509.60	268.76	427.63
Total	1,826,406.40	9,944.12	30,789.36

Gross Timber Sale Value

Recovery \$1,867,139.88

Prepared by: Chris Rudd

Date: 11/12/04

District: Coos

Phone: (542) 674-136

Summary of "Other Costs" for Timber Sale Appraisals

Sale Name: Dry Stulls

Additional "Other Cost" with additional profit and risk to be added:

	<u>Units</u>	<u>Quantity</u>	<u>Cost/unit</u>	<u>Total Cost</u>
Yarding and Loading				
Brand and paint logs	MBF	3693	\$ 0.50	\$ 1,846.50
Loader time for firewood stacking	Hours	2	\$ 75.00	\$ 150.00
Slash piling on landings	landing	5	\$ 125.00	\$ 625.00

Miscellaneous Costs

Snag Creation

Tree Topping	per tree	50	\$ 100.00	\$ 5,000.00
Tree Girdling	per tree	50	\$ 10.00	\$ 500.00

Total additional "Other Cost" with additional profit and risk to be added

\$ 8,121.50

**SUMMARY OF CONSTRUCTION COST
Dry Stulls**

Project No. 1: Landing Construction

Points: B (Area I) Length: n/a Type: n/a

Excavation

Drill and Shoot	<u>1640</u>	cubic yds at	<u>\$3.00</u>	per cu yd	<u>\$4,920.00</u>
Cat excavation and prep waste area	<u>50</u>	hrs at	<u>\$95.00</u>	per hr	<u>\$4,750.00</u>
Excavation	<u>6602</u>	yds at	<u>\$1.24</u>	per yd	<u>\$8,186.48</u>
Laborer	<u>50</u>	hrs at	<u>\$30.00</u>	per hr	<u>\$1,500.00</u>
Total Excavation					\$19,356.48

Hauling

Endhaul to waste area (Pt C)	<u>6602</u>	yds at	<u>\$0.68</u>	per yd	<u>\$4,489.36</u>
Total Hauling					\$4,489.36

Project 1 Total \$23,845.84

Move-in

Equipment	Miles	Mileage Factor	Equipment Allowance	Total
Excavator	30	0.66	\$533.00	\$351.78
D7 Cat	30	0.66	\$387.00	\$255.42
Grader	30	0.66	\$241.00	\$159.06
Drill & Comp	30	0.66	\$241.00	\$159.06
Dump Truck	30	0.66	\$144.00	\$95.04

Move Between Areas I and II

Cat	<u>1</u>	hrs at	<u>\$95.00</u>	per hour	<u>\$95.00</u>
Grader	<u>0.5</u>	hrs at	<u>\$75.00</u>	per hour	<u>\$37.50</u>

Total Move-in \$1,152.86

Project 1 Cost \$24,999.00

Project 2A: Road Improvement - Area I and II

Points A to B Length: 4875' Type: 14' w/ditch

Smooth Road Surfaces (Grader)	<u>3</u>	hrs at	<u>\$75.00</u>	per hour	<u>\$225.00</u>
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Project 2A Total \$225.00

Project 2B: Road and Landing Improvement - Area III

Points E to G, F Length: 3180' Type: 14' no ditch

Cat to remove tank trap	<u>1</u>	hrs at	<u>\$95.00</u>	per hr	<u>\$95.00</u>
Smooth Road Surfaces (Grader)	<u>3</u>	hrs at	<u>\$75.00</u>	per hour	<u>\$225.00</u>

Project 2B Total \$320.00

Project 2 Cost \$545.00

**SUMMARY OF CONSTRUCTION COST
Dry Stulls**

Project 3: Road Widening

Points: D (2175 Rd) Length: n/a Type: 14' w/ditch

Excavation

Drill and Shoot	<u>10</u>	hrs at	<u>\$110.00</u>	per hr	<u>\$1,100.00</u>
Excavator time	<u>5</u>	hrs at	<u>\$110.00</u>	per hr	<u>\$550.00</u>
Laborer	<u>5</u>	hrs at	<u>\$30.00</u>	per hr	<u>\$150.00</u>

Total Excavation \$1,800.00

Hauling

Endhaul to waste area at Pt C (1.4 mi RT)	<u>5</u>	hrs at	<u>\$65.00</u>	hrs at	<u>\$325.00</u>
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Total Hauling \$325.00

Grade Road Surface

	<u>1</u>	hrs at	<u>\$75.00</u>	per hour	<u>\$75.00</u>
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Total Grading \$75.00

Road Surfacing

6" depth 2 1/2"-0" rock (1.5 hr RT Bobtail)	<u>40</u>	tons at	<u>\$11.13</u>	per ton	<u>\$445.20</u>
Processing (grader)	<u>1</u>	hrs at	<u>\$75.00</u>	per hour	<u>\$75.00</u>

Total Road Surfacing \$520.20

Project 3 Cost \$2,721.00

Project 4: Maintenance Rocking

Points: B to C

Maintenance rock for after hauling (1 1/2" - 0" rock, 1.6 hr RT Bobtail)	<u>146.3</u>	tons at	<u>\$11.98</u>	per ton	<u>\$1,752.67</u>
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Project 4 Cost \$1,753.00

Project 5: Elk Creek Rock Stockpile

Location: 8000/9000 jct
Measured amount: 1330 tons (1000 cubic yards)
Size: 1 1/2" - 0"

Cost per ton at crusher:	\$5.60	per ton
Haul cost per ton (2.4 hr. RT):	\$6.42	per ton
Piling and shaping cost per ton:	<u>\$0.49</u>	per ton

Total cost per ton:	\$12.51	per ton
Total tons:	1330	tons

Total Cost for Stockpile rock: \$16,638.30

Project 5 Cost \$16,639.00

Total Project Costs \$46,657.00

TIMBER SALE SUMMARY

Dry Stulls

1. **Type of sale:** Final harvest; Recovery, Sealed Bid.
2. **Boundary Lines:** Sale boundaries are marked on the ground with "Timber Sale Boundary" posters, red paint, and red flagging at locations shown on the Exhibit A.
3. **Revenue Distribution:** 100% CSL; 100% Coos County.
4. **Sale Acreage:** The sale area is 70 acres Net. The net acreage includes that area of the sale posted within the timber sale boundary signs. Green trees and buffer areas are posted outside the sale area and are not included in the net acreage calculation. The total sale area (gross) including buffers and green trees is 82 acres. The acreage was determined by ArcView software, a geographic information system.
5. **Volume by Species, Fund, and County:** See table on following page.
6. **Grade by Percent:**

Species	3 Peeler	Special Mill	2 Saw	3 Saw	4 Saw/Camp
Douglas-fir	4%	5%	63%	28%	0
Western Hemlock			11%	56%	33%
Hardwood	-----	-----	28%	51%	21%

7. **Cruise:** The unit was variable plot cruised using the big basal area factor method. A 250 BAF wedge factor was used for measure trees and a 40 BAF was used for count trees. Heights, diameter, form factor, grade and defect, were taken on measure plots. Dry Stulls was cruised by ODF Foresters and compiled using Superace, in September 2004.

A. Cruise Summary Data:

Diameter	Top Diameter	Form Point	Form Factor	CV %	SE %
D4H	Total Height	Conifer: 16' Hardwood: 16'	Recorded on all trees	61	6.8

B. Stand Summary:

Species	D4H	Trees per Acre	Basal Area (ft ² /ac)	BF per acre
Douglas-fir	25	59	201	51,400
Western Hemlock	15	4	4.3	500
Hardwood	15	12	14.5	1,000

C. Green Tree Retention:

Green trees are posted outside the sale boundary along the stream buffers. There are 14 scattered trees and snags were posted in sale Area II as shown on Exhibit "A". The upper portions of the streams in Area III have individually marked wildlife trees forming the buffer area. The boundary is posted in the lower buffer and individual trees are marked in the upper reaches. The following green trees were removed from the final cruise volume:

Area	Douglas-fir	Hemlock	Hardwood
II trees (BF Vol)	8 (13,700)	1 (790)	5 (800)
III -1 acre (BF Vol)	(51,400)	(500)	(1000)
Total Volume	(65,100)	(12,900)	(1,800)

8. **Timber Description:** Dry Stulls is a stand of timber 101 to 123 years old. It is relatively low density (45) having been thinned within 600 feet of the roads back in the 1970's. Area I and II are essentially the same stand of timber with a stream buffer separating them. Area III has about 20 large trees that blew down in January 2004.
9. **Topography:** Area II is a steep west-facing slope with two major drainages running east-west. Area I faces the landing to the east along the 2175 Road. Area III has a ridge on the majority of the semicircular perimeter. This unit is in the headwaters of a tributary to the West Fork Millicoma River. It has a forked buffer bisecting it.
10. **Logging Method:** Area II will have a major landing where both Area I and Area II can be reached. The waste area shown on the exhibit will become a second landing that will allow better access to the northern portion of area I while protecting the buffer (See Logging Exhibit). Area III can be logged from an existing landing on the 2095 road. The sale will be cable logged uphill with single-end suspension over the units. Full suspension will be required over designated streams and buffers. A motorized carriage may be required to obtain the necessary suspension.
11. **Access:** From Coos Bay, take the Coos River Highway 14 miles to Allegany. Turn northward on the West Fork Millicoma County Road (#47) and drive 5 miles to the 2000 Road. Turn north again onto the 2000 Road and drive 3 ½ miles to the 2095 Road. Area III is at the end of the 2095 Road. Areas I and II are 6 miles up the 2000 Road off of the 2175 Road.
12. **Projects:**
 - Project No. 1: Landing Construction
 - Project No. 2: Road and Landing Improvement
 - Project No. 3: Road Widening
 - Project No. 4: Maintenance Rocking
 - Project No. 5: Elk Creek Rock Stockpile 8000/9000 Road junction.

NET VOLUMES AND ACREAGE

Dry Stulls

SALE AREA & SPECIES		Tree cnt. 100% Units	NET VOLUMES (MBF)							
			By County and Fund						Total Vols.	Vol. per Acre
Area	Spec		Coos			Douglas				
		CSL	BOF	Total	CSL	BOF	Total			
I	D-fir		205.5		205.5			0.0	205.5	51.4
	Hem		2.2		2.2			0.0	2.2	0.5
	Hdwd		4.1		4.1			0.0	4.1	1.0
II	D-fir		2,607.6		2,607.6			0.0	2,607.6	51.1
	Hem		27.2		27.2			0.0	27.2	0.5
	Hdwd		52.1		52.1			0.0	52.1	1.0
III	D-fir		770.8		770.8			0.0	770.8	51.4
	Hem		8.2		8.2			0.0	8.2	0.5
	Hdwd		15.5		15.5			0.0	15.5	1.0
TOTALS			3,693	0	3,693	0	0	0	3,693	

TOTAL SALE VOLUME BY SPECIES

Douglas-fir	3,584	MBF
Hemlock	37	MBF
Hardwoods	72	MBF
Total Sale	3,693	MBF

Report by: Christopher Rudd

Date: 9/23/2004

Unit For. *Norm Klein* 9/27/04
Date

Asst. Dist. For. *Greg Kreimyer* 11-5-2004
Date

**UTILITY VOLUME NOT SHOWN TO PROVIDE FOR RETENTION OF DOWN LOGS
NO INGROWTH INCLUDED**

ACREAGE BY COUNTY (to nearest acre)

Sale Area	Coos County						Douglas County						TOTAL ACRES
	CSL			BOF			CSL			BOF			
	Conifer		Hard wood	Conifer		Hard woods	Conifer		Hard woods	Conifer		Hard woods	
	cc	pc		cc	pc		cc	pc		cc	pc		
I	4												4
II	51												51
III	15												15
SUM	70	0	0	0	0	0	0	0	0	0	0	0	70

cc- clearcut

pc- partial cut

BOF - Board of Forestry

CSL - Common School Land

CRUISE VOLUME COMPUTATION REPORT

SALE NAME: Dry Stulls

DATE: 9/23/2004

BY: Chris Rudd

AFTER CRUISE VOLUME MBF *

SPECIES>>	Doug-fir	Hemlock	Hardwds	TOTAL
Combined Cruise	3,786.181	40.362	80.535	3,907.078
less retention vol	13.700	0.790	0.800	15.290
Total	3,772.481	39.572	79.735	3,891.788

BY AREA				BY AREA
I	216.353	2.306	4.602	223.262
less retention vol				0.000
unit total	216.353	2.306	4.602	223.262
II	2,758.503	29.407	58.676	2,846.585
less retention vol	13.700	0.790	0.800	15.290
unit total	2,744.803	28.617	57.876	2,831.295
III	811.325	8.649	17.258	837.231
less retention vol				0.000
unit total	811.325	8.649	17.258	837.231
TOTAL	3,772.481	39.572	79.735	3,891.788

HIDDEN DEFECT AND BREAKAGE *

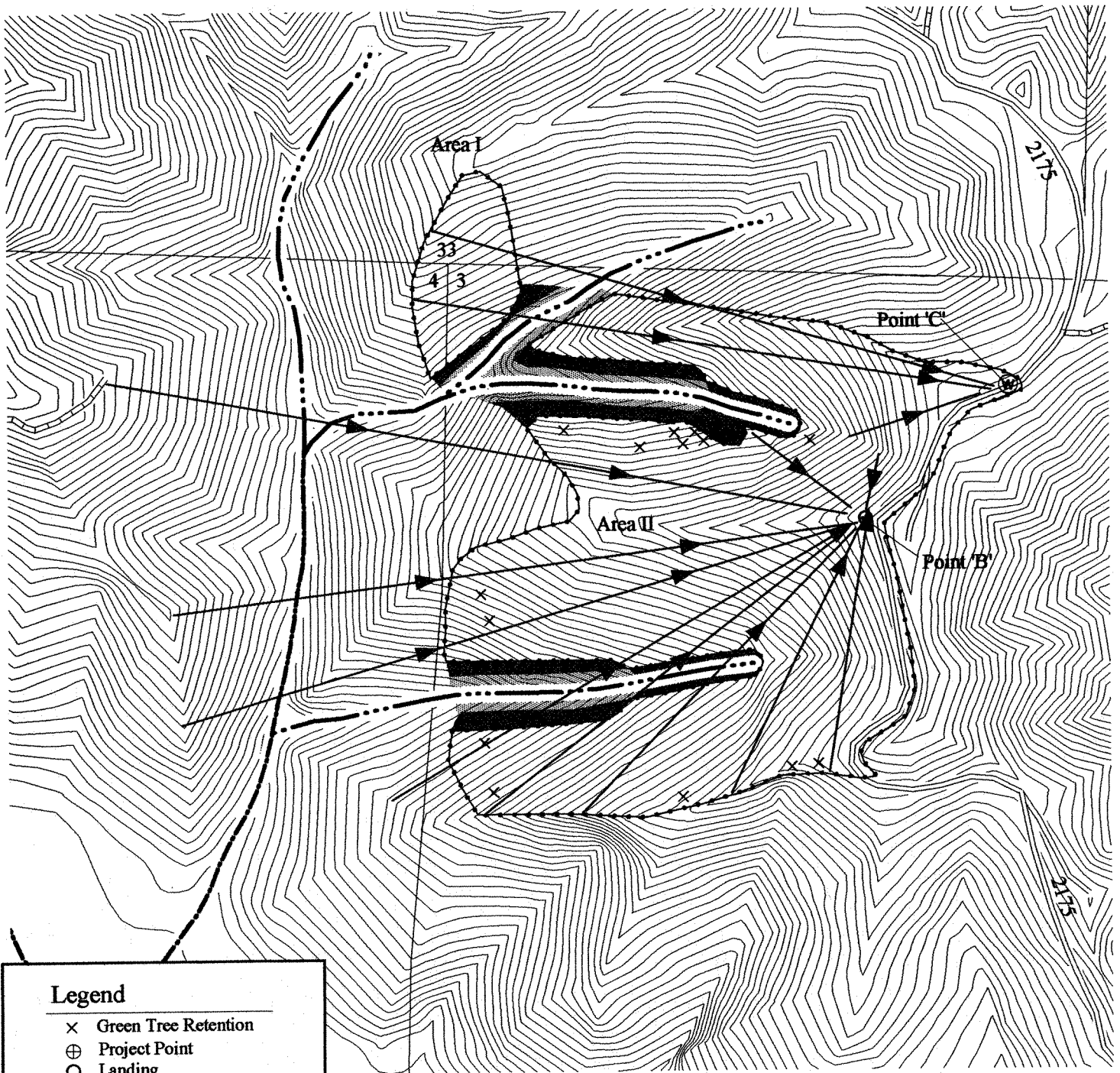
AREAS I, II, and III

Species	Doug-fir	Hemlock	Hardwds
Hidden cl	3	3	5
Breakage	2	2	5
Total	5	5	10

NET VOLUME BY MBF BY AREA*				
SPECIES AREA	Doug-fir	Hemlock	Hardwds	TOTALS BY AREA
I	205.536	2.191	4.142	211.868
II	2,607.563	27.186	52.088	0.000
III	770.758	8.217	15.532	837.231
TOTALS	3,583.857	37.593	71.762	3,693.212

NET VOLUME BY GRADE AND MBF *							
Grade >>>>>>>>>>	2 PEE	3 PEE	SM	2 SAW	3 SAW	4 SAW/CR	
Doug-Fir	0	132	178	2276	998	0	
Hemlock	0	0	0	4	21	12	
Hdwds				20	36	16	

GRADE DISTRIBUTION BY PERCENT							
Grade >>>>>>>>>>	2 PEE	3 PEE	SM	2 SAW	3 SAW	4 SAW	
Doug-fir	0.00%	3.69%	4.97%	63.50%	27.84%	0.00%	
Hemlock	0.00%	0.00%	0.00%	11.52%	55.66%	32.82%	
Hdwds				27.66%	50.73%	21.60%	



Legend

- × Green Tree Retention
- ⊕ Project Point
- Landing
- Ⓜ Waste Area
- Sale Boundary
- Roads
 - ▤ Contractor Maintained
 - ▥ State Maintained
- Streams
 - Type F
 - Type N
- Reserved Trees
 - ▨ Buffer
 - Green Tree Retention
 - ↔ Reproduction
 - ↔ Logging Corridors
 - Contours 20'

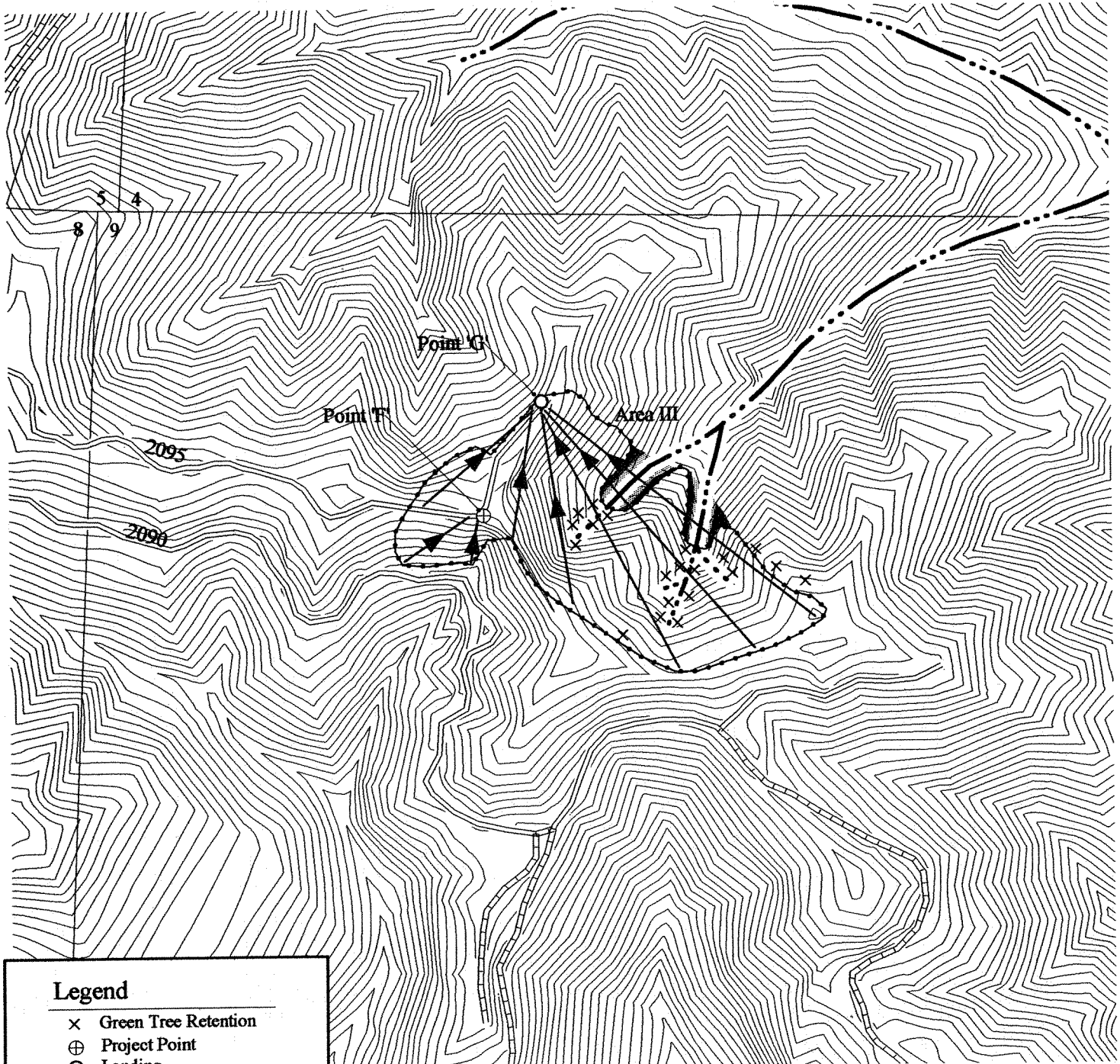
LOGGING PLAN

OF TIMBER SALE NO.
341-05-68
DRY STULLS
PORTIONS OF SECTIONS 3, 4, AND 9, T24S R11W
AND A PORTION OF SECTION 33, T23S R11W, W. M.
COOS COUNTY, OR

APPROX. SCALE 1" = 500'



Area	Acres	
	Net	Gross
I	4	4
II	51	61
III	15	17
Total	70	82



Legend

- × Green Tree Retention
- ⊕ Project Point
- Landing
- Ⓜ Waste Area
- Sale Boundary
- Roads
 - ▤ Contractor Maintained
 - ▥ State Maintained
- Streams
 - ▧ Type F
 - ▨ Type N
- Reserved Trees
 - ▩ Buffer
 - Green Tree Retention
 - Reproduction
 - ▬ Logging Corridors
 - Contours 20'

LOGGING PLAN
 OF TIMBER SALE NO.
 341-05-68
 DRY STULLS
 PORTIONS OF SECTIONS 3, 4, AND 9, T24S R11W
 AND A PORTION OF SECTION 33, T23S R11W, W. M.
 COOS COUNTY, OR

APPROX. SCALE 1" = 500'



Area	Acres	
	Net	Gross
I	4	4
II	51	61
III	15	17
Total	70	82

WRITTEN PLAN

File: I:\Timber Sales\Written Plans\Dry Stulls.doc

SALE NAME: Dry Stulls

LOCATION: A portions of Section 33, T23S R11W, Coos County, OR.

LANDOWNER: Oregon Department of Forestry; 63612 5th Rd. Coos Bay, Or.

CONTRACT PURCHASER: _____

NOTIFICATION NO: _____

This written plan is prepared to comply with the requirements for a written plan as provided for by the Forest Practices Act (OAR) 629-635-130 (1a). This plan outlines the measures to be taken to comply with the Forest Practices Act green-up requirements and Type F stream protection requirements. The affected stream is a tributary to the West Fork Millicoma River, a Type F stream, located adjacent to sale areas I and II.

SITUATION

Area I and II of the Dry Stulls timber sale is located adjacent to a tributary to the West Fork Millicoma River. Sale boundaries have been posted at least 200 feet from the stream to meet all FPA requirements. Protection measures required by the Forest Practices Act for the RMA are provided for in the sale contract.

FELLING AND BUCKING

1. No trees or snags within the posted RMA boundaries will be felled.
2. Trees will be felled parallel to or away from the RMA so as to minimize their potential of entering the RMA or damaging RMA vegetation.

YARDING

1. Operator will use a machine capable of fully suspending logs.
2. When cables pass through or over the buffer strip shown on the contract Exhibit "A", trees will be protected as follows:
 - a. Cables will be pulled out of the residual timber prior to rigging the next yarding road.
 - b. The skyline will not be lowered into the buffer during the yarding cycle.
 - c. Yarding roads will be spaced a minimum of 100 feet apart where they extend over or through the RMA.

O.D.F. REPRESENTATIVE Date

PURCHASER REPRESENTATIVE Date

OPERATOR REPRESENTATIVE Date

APPROVED BY: _____ DATE: _____

TITLE