



"STEWARDSHIP IN FORESTRY"

# Timber Sale Appraisal Cost Summary West Point Sale 341-04-020

District: Tillamook

Date: 8/6/03

	Conifer	Hardwood	Total
<b>Gross Timber Sale Value</b>	\$231,066.43	\$0.00	\$231,066.43
		<b>Project Work</b>	(\$23,118.00)
		<b>Advertised Value</b>	\$207,948.43



# Timber Sale Appraisal Timber Description West Point Sale 341-04-020

"STEWARDSHIP IN FORESTRY"

**District:** Tillamook

**Location:** Portions of Section 30, T2N, R7W, Sections 25, 26, 34, and 35 T2N, R8W, and Sections 2 and 3, T1N, R8W, W.M., Tillamook County, Oregon

**Date:** 8/6/03

**Stand Stocking:** 20%

Species	Avg. DBH	Amortized%	Recovery%
Douglas - Fir	11	0	95
Western Hemlock / Fir	11	0	95

Volume by Grade	Douglas - Fir	Western Hemlock / Fir	Total
3S	1,361	482	1,843
<b>Total</b>	1,361	482	1,843

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

Hardwood pond value of \$510, obtained locally, less the logging cost of Hemlock was used to determine the stumpage value of hardwoods.



# Timber Sale Appraisal

## Logging Conditions

### West Point

### Sale 341-04-020

"STEWARDSHIP IN FORESTRY"

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<b>Combination#:</b> 1	Douglas - Fir	91.65%	
	Western Hemlock / Fir	17.54%	
<b>Yarding Distance:</b>	Medium (800 ft)		<b>Downhill Yarding:</b> No
<b>Logging System:</b>	Cable: Small Tower <=40		<b>Process:</b> Manual Delimiting
<b>Tree Size:</b>	Small / Thinning 9in (70 Bft/tree), 20+ logs/MBF		
<b>Loads/Day:</b>	4		<b>Bd. Ft./Load:</b> 3,400
<b>Cost/MBF:</b>	\$189.56		
<b>Machines:</b>	Log Loader (A) Tower Yarder (Small)		
<b>Combination#:</b> 2	Douglas - Fir	4.82%	
	Western Hemlock / Fir	0.92%	
<b>Yarding Distance:</b>	Short (400 ft)		<b>Downhill Yarding:</b> Yes
<b>Logging System:</b>	Wheel Skidder		<b>Process:</b> Manual Felling/Delimiting
<b>Tree Size:</b>	Small / Thinning 9in (70 Bft/tree), 20+ logs/MBF		
<b>Loads/Day:</b>	6		<b>Bd. Ft./Load:</b> 3,400
<b>Cost/MBF:</b>	\$147.10		
<b>Machines:</b>	Log Loader (B) Tire Skidder		
<b>Combination#:</b> 3	Douglas - Fir	3.53%	
	Western Hemlock / Fir	81.54%	
<b>Yarding Distance:</b>	Short (400 ft)		<b>Downhill Yarding:</b> No
<b>Logging System:</b>	Cable: Small Tower <=40		<b>Process:</b> Manual Delimiting
<b>Tree Size:</b>	Small / Thinning 9in (70 Bft/tree), 20+ logs/MBF		
<b>Loads/Day:</b>	5		<b>Bd. Ft./Load:</b> 3,400
<b>Cost/MBF:</b>	\$168.50		
<b>Machines:</b>	Log Loader (A) Tower Yarder (Small)		



# Timber Sale Appraisal Logging Costs West Point Sale 341-04-020

"STEWARDSHIP IN FORESTRY"

Date: 8/6/03

Operating Seasons: 1.6

Profit & Risk: 20%

Project Costs: \$23,118

Other Costs (P/R): \$6,316

Slash Disposal: \$0

Other Costs: \$13,840

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

Road Maintenance: \$3.60

### Hauling Costs

Species	\$/MBF	Trips/Day	MBF/Load
Douglas - Fir	\$0.00	2.0	3.3
Western Hemlock / Fir	\$0.00	3.0	3.3



"STEWARDSHIP IN FORESTRY"

# Timber Sale Appraisal Logging Costs Breakdown West Point Sale 341-04-020

Costs	Douglas - Fir	Western Hemlock / Fir
<b>Logging</b>	186.77	172.00
<b>Road Maintenance</b>	3.79	3.79
<b>Fire Protection</b>	2.35	2.35
<b>Hauling</b>	69.16	46.11
<b>Other (P/R appl.)</b>	3.43	3.43
<b>Profit &amp; Risk</b>	53.10	45.54
<b>Slash Disposal</b>	0.00	0.00
<b>Scaling</b>	2.00	2.00
<b>Other</b>	7.51	7.51
<b>Total</b>	328.11	282.73

<b>Amortization</b>	0.00	0.00
<b>Pond Value</b>	490.00	305.00
<b>Stumpage</b>	161.89	22.27
<b>Amortized</b>	0.00	0.00



"STEWARDSHIP IN FORESTRY"

# Timber Sale Appraisal Summary West Point Sale 341-04-020

## Amortized

	Douglas - Fir	Western Hemlock / Fir
MBF	0.00	0.00
Value	0.00	0.00
Total	0.00	0.00

## Unamortized

	Douglas - Fir	Western Hemlock / Fir
MBF	1,361.00	482.00
Value	161.89	22.27
Total	220,332.29	10,734.14

## Gross Timber Sale Value

**Recovery \$231,066.43**

Prepared by: Chris Woodward

Date: 8/6/03

District: Tillamook

Phone: (503) 842-2545

### Additional Costs

#### WEST POINT



Cable Yarding Volume:	1751	MBF
Ground Yarding Volume:	92	MBF
Total Sale Volume:	1843	MBF

6/23/03

"STEWARDSHIP IN FORESTRY"

ADDITIONAL COSTS - PROFIT & RISK TO BE ADDED						
Harvesting and Layout	Cost / MBF		Volume (MBF)			
Additional Alder Logging Costs:	\$ 15	x	0	=	\$0	\$0
<b>Yarding &amp; Loading:</b>						
	Cost / MBF		Volume (MBF)			
Brand & Paint:	\$ 2	x	1843	=	\$3,686	
Truck Assist/Tractor Swing	\$ 30	x	71	=	\$2,130	
	Cost / Each		#		\$5,816	
Intermediate Supports (per support)	\$ 100	x	5	=	\$500	\$500
<b>OTHER COSTS TOTAL</b>						<b>\$6,316</b>
ADDITIONAL COSTS - PROFIT & RISK INCLUDED						
Non-Project Roads (See Logging Plan in Cruise Report)						
Road 1	14	Stations	x	\$ 90	=	\$1,260
Road 2	13	Stations	x	\$ 90	=	\$1,170
Road 3	29	Stations	x	\$ 90	=	\$2,610
Road 4	7.5	Stations	x	\$ 90	=	\$675
Road 5	10	Stations	x	\$ 90	=	\$900
<b>Totals</b>	<b>73.5</b>					<b>\$6,615</b>
OHV Barrier construction	6		x	\$ 75		\$450
OHV trail clearing	25	Stations	x	\$ 40		\$1,000
		Stations	x	Yrd <sup>3</sup>	x	\$/Yard
Pit Run Rock	10			30	x	\$6.00
						\$1,800
*Ditch Pulling and End Haul (per cuyd)				\$5	x	200
						\$ 1,000
**Dust Abatement (per season)				\$1,200	x	2
						\$ 2,400
Road closing (per hour)				\$115	x	5
						\$ 575
<b>OTHER COSTS TOTAL</b>						<b>\$ 13,840</b>
ROAD MAINTENANCE						
	\$/Mile	# Grading	Miles	\$/MBF		
Grading:	\$500	1.00	11	\$2.98		
	\$/Yd	MMBF	Miles	CuYd	\$/MBF	
***Surfacing Crushed:	\$6.15	1.84	5	25	\$0.77	
<b>TOTAL ROAD MAINTENANCE COST / MBF:</b>					<b>\$3.75</b>	
*Includes cost for excavating, hauling, compaction, and sediment control devices.						
** Assumes that lignin sulfonate is used as dust abatement material.						
*** Assumes 25 cu yds rock per MMBF per mile						





SUMMARY OF CONSTRUCTION COST

Sale: West Point Road: Points A - B  
Cedar Butte\Diamond Mill

Construction - 0.00 stations miles Improvement - 163+40 stations miles  
3.09 miles

CLEARING AND GRUBBING -

Scattering	0.20	acres @	\$815.00	per acre =	\$163.00	
Piling	0.00	acres @	\$905.00	per acre =	\$0.00	
Endhaul	0.00	acres @	\$1,500.00	per acre =	\$0.00	
TOTAL CLEARING AND GRUBBING						\$163.00

EXCAVATION -

D-8	6	hr.s @	\$130.00	per hr. =	\$780.00	
Excavator	2	hr.s @	\$130.00	per hr. =	\$260.00	
Common	963	cys. @	\$3.29	per c.y. =	\$3,168.27	
Rip	520	cys. @	\$4.59	per c.y. =	\$2,386.80	
Drill & Shoot	230	cys. @	\$7.34	per c.y. =	\$1,688.20	
Common	311	cys. @	\$2.85	per c.y. =	\$886.35	
Rip	58	cys. @	\$4.15	per c.y. =	\$240.70	
Drill & Shoot	5	cys. @	\$6.70	per c.y. =	\$33.50	
Common	59	cys. @	\$3.29	per c.y. =	\$194.11	
Rip	374	cys. @	\$4.59	per c.y. =	\$1,716.66	
Drill & Shoot	603	cys. @	\$6.03	per c.y. =	\$3,636.09	
TOTAL EXCAVATION						\$14,990.68

CULVERT MATERIALS -

Culverts						
0	LF of 18"	\$0.00	0	LF of 24"	\$0.00	
32	LF of 30"	\$796.80	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	
		<u>\$796.80</u>			<u>\$0.00</u>	
Culvert Stakes						
0	1/2 round stakes @	\$8.00	per stake =	\$0.00		
1	marker stakes @	\$6.00	per stake =	\$6.00		
TOTAL CULVERT MATERIALS						\$802.80

SURFACING-

12" Depth	20	cy. of	Pit Run	@	\$9.00	per c.y. =	<u>\$180.00</u>
TOTAL SURFACING							\$180.00

MISCELLANEOUS-

110	cy. of	Riprap	@	\$2.50	per c.y. =	\$275.00	
	cy. of		@	\$0.00	per c.y. =	<u>\$0.00</u>	
TOTAL MISCELLANEOUS							\$275.00

SPECIAL PROJECTS

Grade Road:163+30 Stations @ \$13.70/sta.	\$2,237.21	
Grass Seed and Fertilize Areas of Disturbed Soil	\$180.00	
Develop Waste Areas	\$500.00	
Remove old culvert from State land	\$150.00	
TOTAL SPECIAL PROJECTS		\$3,067.21

GRAND TOTAL \$19,478.69

SUMMARY OF CONSTRUCTION COST

Sale: West Point Road: Points C - D

Construction - 0.00 stations miles Improvement - 2+95 stations miles  
0.00 miles 0.06 miles

CLEARING AND GRUBBING -

Side cast	0.00 acres @	\$540.00 per acre =	\$0.00	
Scattering	0.30 acres @	\$815.00 per acre =	\$244.50	
Piling	0.00 acres @	\$905.00 per acre =	\$0.00	
Endhaul	0.00 acres @	\$1,500.00 per acre =	\$0.00	
TOTAL CLEARING AND GRUBBING				\$244.50

EXCAVATION -

2.95 sta. @	\$65.00 per sta. =	\$191.75
0 cys. @	\$0.00 per c.y. =	\$0.00
TOTAL EXCAVATION		\$191.75

CULVERT MATERIALS -

Culverts					
34	LF of 18"	\$601.80	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
		<u>\$601.80</u>			<u>\$0.00</u>
Culvert Stakes					
0	1/2 round stakes @	\$8.00 per stake =	\$0.00		
1	marker stakes @	\$6.00 per stake =	\$6.00		
TOTAL CULVERT MATERIALS				\$607.80	

SURFACING-

9" Depth	168	cy. of	Pit Run	@	\$5.00 per c.y. =	\$840.00
TOTAL SURFACING						\$840.00

SPECIAL PROJECTS

<u>Grade Road: 2+95 Stations @ \$14.20/sta.</u>	\$41.89	
<u>Grass Seed &amp; Fertilize Areas of Disturbed Soil</u>	\$40.00	
	\$0.00	
TOTAL SPECIAL PROJECTS		\$81.89

GRAND TOTAL \$1,965.94

MOVE-IN CALCULATIONS

SALE NAME: West Point

MILEAGE FACTORS		MILEAGE FACTORS	
Distance	Factor	Distance	Factor
0-25	0.58	55	1.07
30	0.66	60	1.15
35	0.74	65	1.23
40	0.82	70	1.31
45	0.91	75	1.4
50	1	80	1.48

MILEAGE FACTOR = 0.74

EQUIPMENT DESCRIPTION	Base Cost	Move W/in Area/Mile	Begin Mileage	End Mileage	Total Miles	Cost
1 Drill & Compressor	\$241	\$8.15	0	2	2	\$194.64
1 Graders	\$241	\$7.05	0	2	2	\$192.44
0 Loader--1 1/2-2 1/2 cy	\$241	\$10.00	0	0	0	\$0.00
0 --3 cy.s>	\$387	\$10.00	0	9	9	\$0.00
0 Rollers & Compactors	\$241	\$22.00	0	0	0	\$0.00
Excavators, Big						
1 Backhoes	\$533	\$40.00	0	4	4	\$554.42
0 Backhoes 24/30" Bucket (Rub Tir	\$241	\$10.00	0	0	0	\$0.00
0 Tractors -- D5 - D7	\$385	\$20.00	0	0	0	\$0.00
1 -- D8	\$533	\$25.53	0	4	4	\$496.54
0 Dump Trucks< 10 cy	\$121	\$2.30	0	9.4	9.4	\$0.00
2 >10cy	\$144	\$2.76	0	4	4	\$235.20
Rock Crusher (Excluding Setup)						
0 Don't add stage 1 Stage	\$1,066					\$0.00
0 costs together 2 Stage	\$1,597					\$0.00
0 3 Stage	\$2,489					\$0.00
0 Screening Plant	\$387					\$0.00
0 Crusher Setup 1 Stage	\$733					\$0.00
0 Don't add stage 2 Stage	\$1,598					\$0.00
0 costs together 3 Stage	\$2,520					\$0.00
0 Change Gradation	\$207					\$0.00
0 Screening Plant	\$395					\$0.00

TOTAL MOVE-IN COSTS: \$1,673.24



# OREGON DEPARTMENT OF FORESTRY

## CRUISE REPORT

### West Point

#### Type of Sale

Partial Cut/Clearcut - Recovery

#### Legal Description

Portions of Section 30, T2N, R7W, Sections 25, 26, 34, and 35 T2N, R8W, and Sections 2 and 3, T1N, R8W, W.M., Tillamook County, Oregon

#### Sale Acreage

Sale acreage was determined by plotting posted boundaries in ArcView GIS, using digital orthophotos and planimetric themes.

	<b>ACRES</b>		
	<u>Sale</u>	<u>Total</u>	<u>Net</u>
<b>Area 1 (Partial Cut)</b>	9	9	9
<b>Area 2 (Partial Cut)</b>	13	12	12
<b>Area 3 (Clearcut)</b>	9	9	8
<b>Area 4 (Partial Cut)</b>	13	12	11
<b>Area 5 (Clearcut)</b>	30	30	25
<b>Area 6 (Partial Cut)</b>	99	78	78
<b>Area 7 (Partial Cut)</b>	22	21	21
<b>Area 8 (Partial Cut)</b>	37	29	29
<b>Sub total: Clearcut</b>	39	39	33
<b>Partial Cut</b>	193	161	160
<b>Grand Total</b>	232	200	193

#### 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, non-required acres, non-required 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, unstocked acres, roads, and riparian areas classified as Special Stewardship in LMCS inside the sale boundary.

**Partial Cut** - Same as total acres

**Cruising Procedures**

**A. Cruise Method**

A total of 5, 6, 4, 4, 4, 22, 11 and 5 variable radius full point plots were established in Area 1, 2, 3, 4, 5, 6, 7, and 8 respectively. Diameters to the nearest inch and species were recorded on every plot. On every other plot for areas 1, 2, 3, 4, 5, 7, and 8, all trees were measured for merchantable height to the nearest foot. Merchantable tree heights were measured on the first Douglas-fir and hemlock on each plot in Area 6 to calculate V-BAR. Cruise lines were established on transects to sample all planned harvest areas within the sale. Plots were spaced 200 feet apart. Tree species with a DBH of 8 inches or greater were recorded on all plots.

**B. Plot size**

A 20 BAF was used for tree selection in Areas 1, 3 and 6. A 40 BAF was used for tree selection in Areas 2,4,5,7 and 8. Point of observation was at 4.5 feet.

**C. Grading System**

Trees were graded following the Columbia River Official Log Scaling and Grading Bureau rules.

**Computation Procedure**

Plot data was entered into SuperAce for computation of basal area and V-BAR. This data was entered into the Volume Summary Worksheet to compute the volumes.

**Timber Description**

The level of needle cast in the sale Areas 3 and 5 are moderate to severe. All other sale areas have light to moderate infection. All of the sale areas were burned in the 1933 Tillamook Fire. Area 7 was reburned in the 1939 Saddle Mountain Fire and Areas 1, 2, 3, 4, 5, and 6 were also burned in the 1945 Wilson River Fire. The current stands are all CSC. There are some hard snags created from wind, snow, and bear damage. Down wood consists of scattered large old logs (36"+) from the salvage in decay class 3 and 4 and some windthrow in decay class 1 and 2. Understory vegetation consists of sword fern, salmonberry, Oregon grape, and vine maple.

**Cruiser Names/Dates**

Woodward/Ausland/Buch; October/ November 2002

**Revenue Distribution**

100% FDF  
Tax Code: 56  
Deed Numbers: 35, 70, 96  
100% Rehabilitation Obligated

**Attachments**

Volume Summary  
Logging Plan

\\TILL1NT\PUBLIC\StateForests\CentralUnit\Timber Sale Folders\2003 Sale Plan\West point\Reports\Cruise Report.doc

Volume Computation Summary

WEST POINT

6/23/03

AREA 1

9 acres

	Total Basal Area/acre	Take Basal Area/acre	V-BAR	Vol/Acre MBF	Gross Volume MBF	D&B Percent	Adjusted Volume MBF
Douglas-fir	133	53	105	5.6	50	5%	48
hemlock & other	97	50	123	6.2	56	5%	53
Alder	0	0	0	0.0	0	5%	0
Total Area	230	103		11.8	106		101

AREA 2

12 acres

	Total Basal Area/acre	Take Basal Area/acre	V-BAR	Vol/Acre MBF	Gross Volume MBF	D&B Percent	Adjusted Volume MBF
Douglas-fir	170	55	119	6.5	78	5%	74
hemlock & other	5	0	0	0.0	0	5%	0
Alder	0	0	0	0.0	0	5%	0
Total Area	175	55		6.5	78		74

AREA 3

8 acres

	Total Basal Area/acre	Take Basal Area/acre	V-BAR	Vol/Acre MBF	Gross Volume MBF	D&B Percent	Adjusted Volume MBF
Douglas-fir	170	164	98	16.1	129	5%	123
hemlock & other	5	0	112	0.0	0	5%	0
Alder	0	0	0	0.0	0	5%	0
Total Area	175	164		16.1	129		123

AREA 4

11 acres

	Total Basal Area/acre	Take Basal Area/acre	V-BAR	Vol/Acre MBF	Gross Volume MBF	D&B Percent	Adjusted Volume MBF
Douglas-fir	180	100	120	12.0	132	5%	125
hemlock & other	60	20	114	2.3	25	5%	24
Alder	0	0	0	0.0	0	5%	0
Total Area	240	120		14.3	157		149

Volume Computation Summary

6/23/03

**AREA 5**

25 acres

	Total Basal Area/acre	Take Basal Area/acre	V-BAR	Vol/Acre MBF	Gross Volume MBF	D&B Percent	Adjusted Volume MBF
Douglas-fir	208	208	103	21.4	535	5%	508
hemlock & other	32	0	0	0.0	0	5%	0
Alder	0	0	0	0.0	0	5%	0
<b>Total Area</b>	<b>240</b>	<b>208</b>		<b>21.4</b>	<b>535</b>		<b>508</b>

**AREA 6**

78 acres

	Total Basal Area/acre	Take Basal Area/acre	V-BAR	Vol/Acre MBF	Gross Volume MBF	D&B Percent	Adjusted Volume MBF
Douglas-fir	100	26	92	2.4	187	5%	178
hemlock & other	64	18	77	1.4	13	5%	12
Alder	0	0	0	0.0	0	5%	0
<b>Total Area</b>	<b>164</b>	<b>44</b>		<b>3.8</b>	<b>200</b>		<b>190</b>

**AREA 7**

21 acres

	Total Basal Area/acre	Take Basal Area/acre	V-BAR	Vol/Acre MBF	Gross Volume MBF	D&B Percent	Adjusted Volume MBF
Douglas-fir	73	20	119	2.4	50	5%	48
hemlock & other	220	147	134	19.7	414	5%	393
Alder	7	0	0	0.0	0	5%	0
<b>Total Area</b>	<b>300</b>	<b>167</b>		<b>22.1</b>	<b>464</b>		<b>441</b>

**AREA 8**

29 acres

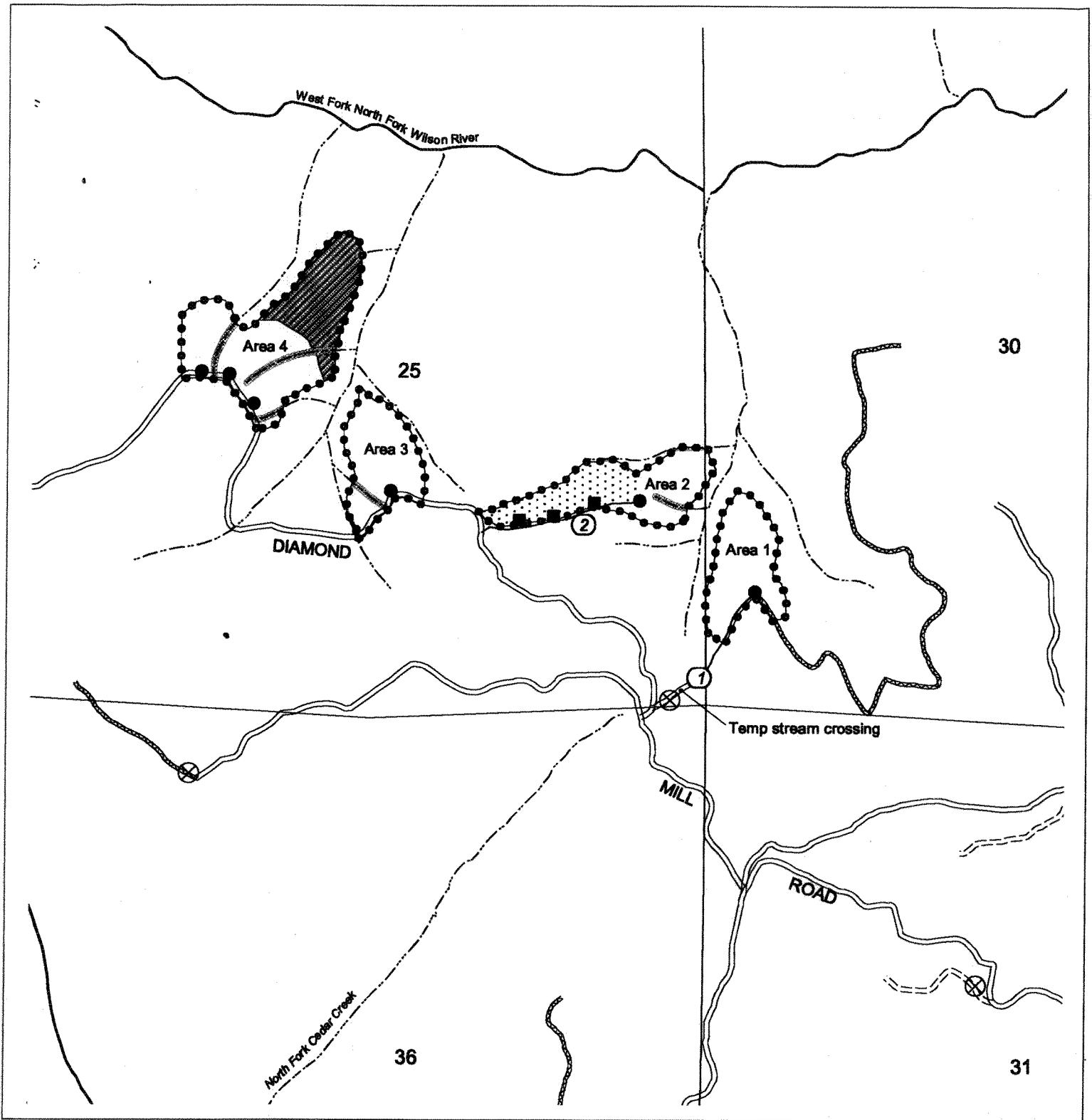
	Total Basal Area/acre	Take Basal Area/acre	V-BAR	Vol/Acre MBF	Gross Volume MBF	D&B Percent	Adjusted Volume MBF
Douglas-fir	240	112	83	9.3	270	5%	257
hemlock & other	0	0	0	0.0	0	5%	0
Alder	8	0	30	0.0	0	5%	0
<b>Total Area</b>	<b>248</b>	<b>112</b>		<b>9.3</b>	<b>270</b>		<b>257</b>

**Total Sale Area**

**193 Net acres**

Species	Vol. MBF	system	Vol. MBF
Douglas-fir	1361	Ground	92
hemlock	482	Cable	1751
<b>Sale Total</b>	<b>1843</b>	<b>Total</b>	<b>1843</b>

Harvest	Vol. MBF
Thin	1212
CC	631
<b>Total</b>	<b>1843</b>



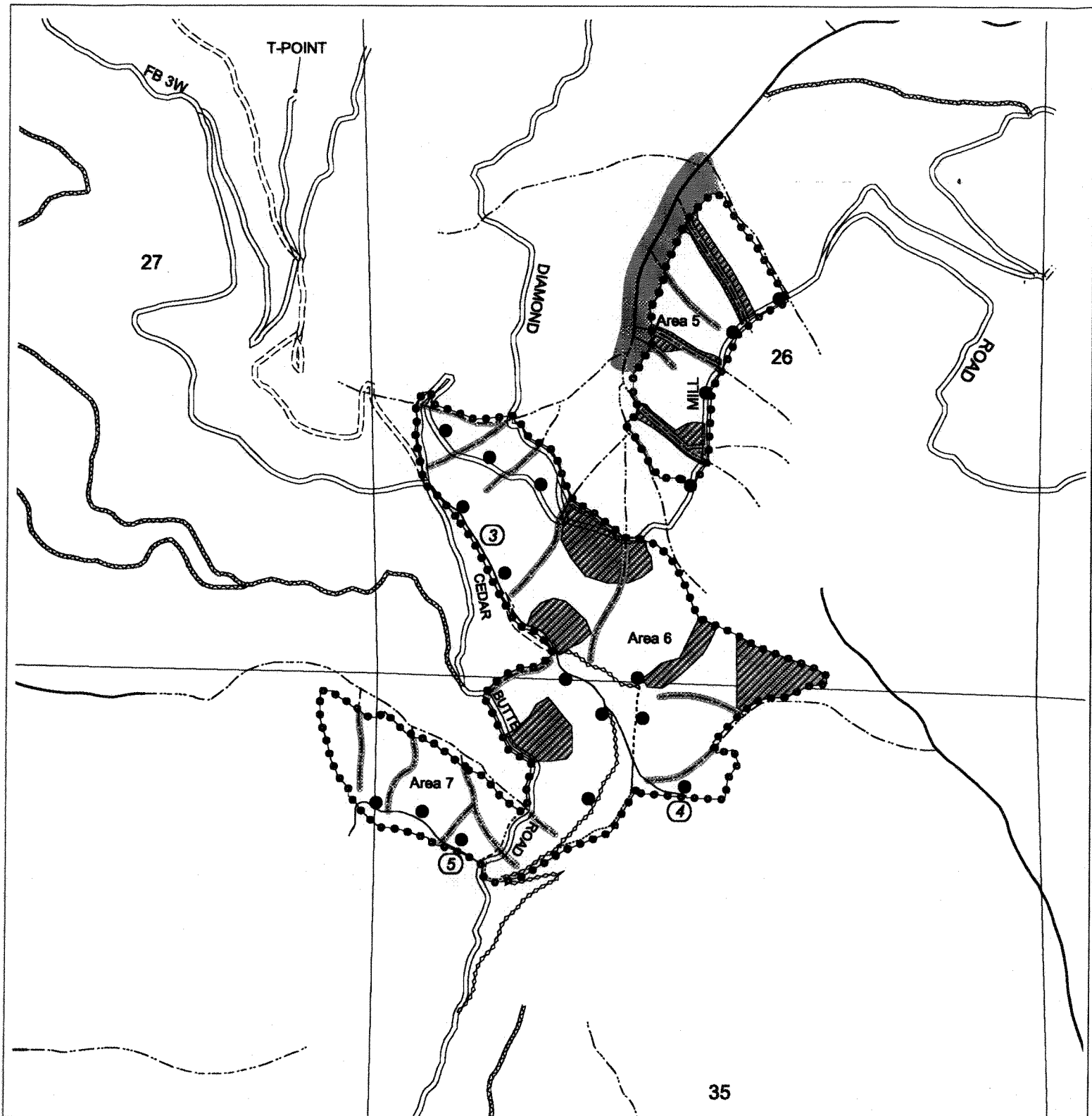
- Tractor landing
- Cable landing
- ▲ Domestic water supply
- ⊗ Blocked
- Cable yarding
- ▨ Ground yarding
- ▩ Helicopter yarding
- ▧ Buffer
- ▨ Non-required thinning
- ⊞ Green tree retention area
- Setting boundary
- - - Area boundary
- Sale boundary
- Ownership boundary
- Type-F stream
- - - Type-N 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. 341-04-20  
 West Point  
 Portions of sections  
 25, 26, 34, and 35, T2N, R8W,  
 section 30 T2N, R7W, and  
 sections 2 and 3, T1N, R8W, W. M.  
 Tillamook County, Oregon

Area	Type of Operation	Acres	
		Net	Sale
1	Partial Cut	9	9
2	Partial Cut	12	13
3	Clear Cut	8	9
4	Partial Cut	11	13
5	Clear Cut	25	30
6	Partial Cut	78	99
7	Partial Cut	21	22
8	Partial Cut	29	37
Total		193	232



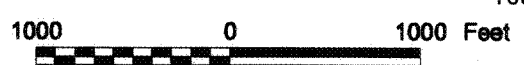


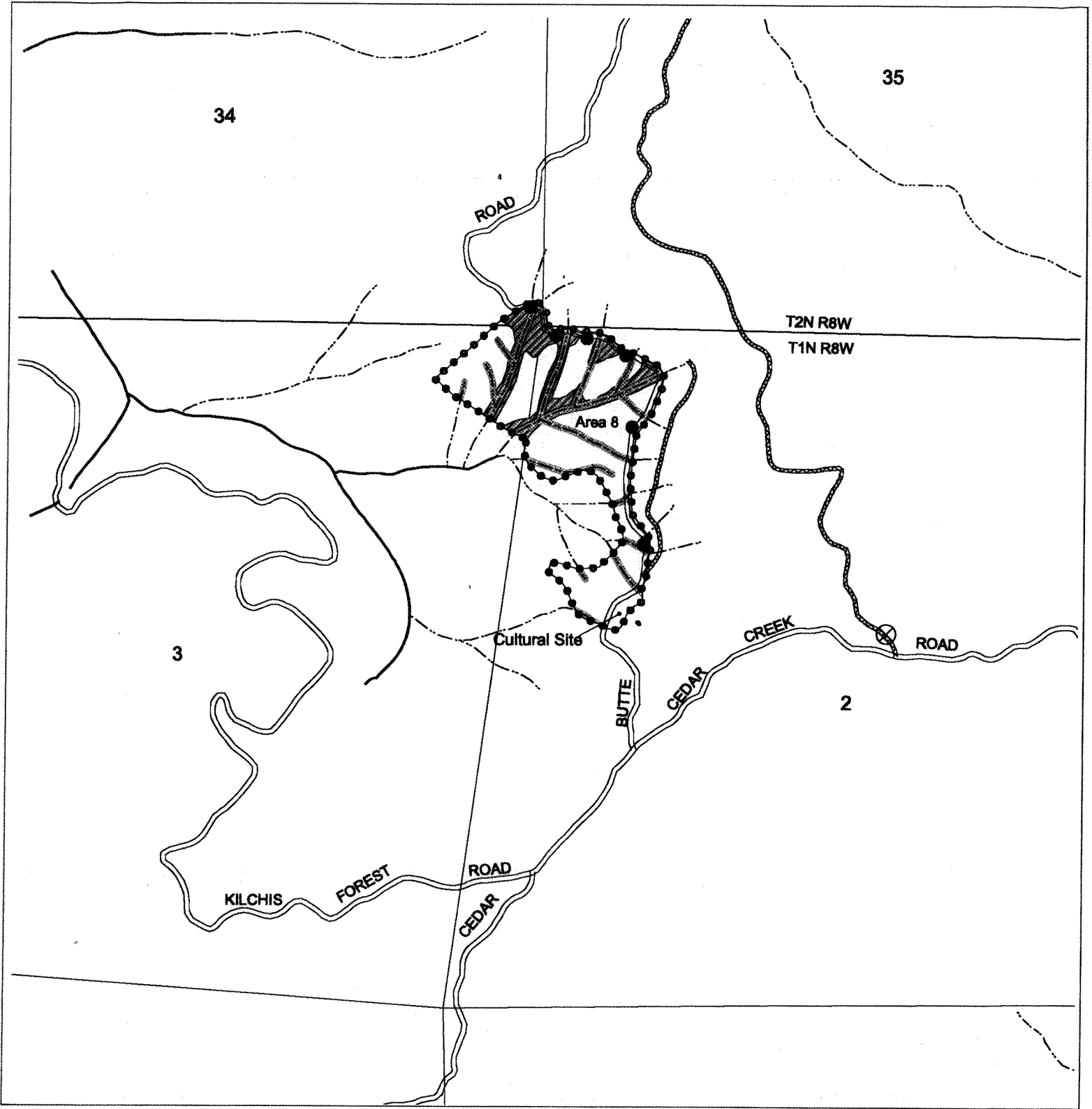


- Tractor landing
- Cable landing
- ▲ Domestic water supply
- ⊗ Blocked
- Cable yarding
- ▨ Ground yarding
- ▩ Helicopter yarding
- ▧ Buffer
- ▨ Non-required thinning
- ▩ Green tree retention area
- Setting boundary
- Area boundary
- Sale boundary
- Ownership boundary
- Type-F stream
- Type-N stream
- ==== 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. 341-04-20  
 West Point  
 Portions of sections  
 25, 26, 34, and 35, T2N, R8W,  
 section 30 T2N, R7W, and  
 sections 2 and 3, T1N, R8W, W. M.  
 Tillamook County, Oregon

Area	Type of Operation	Acres	
		Net	Sale
1	Partial Cut	9	9
2	Partial Cut	12	13
3	Clear Cut	8	9
4	Partial Cut	11	13
5	Clear Cut	25	30
6	Partial Cut	78	99
7	Partial Cut	21	22
8	Partial Cut	29	37
Total		193	232





- Tractor landing
- Cable landing
- ▲ Domestic water supply
- ⊗ Blocked
- 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
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<b>Total</b>		<b>193</b>	<b>232</b>





## OREGON DEPARTMENT OF FORESTRY WRITTEN PLAN

STEWARDSHIP IN FORESTRY

**SALE NAME:** West Point

**LOCATION:** Portions of Section 30, T2N, R7W, Sections 25, 26, 34, and 35 T2N, R8W, and Sections 2 and 3, T1N, R8W, W.M., Tillamook County, Oregon

**ACTIVITIES:** Felling and yarding adjacent to Type F stream buffers.

**PROTECTED RESOURCES:**

**Streams:** Small Type F Stream – West Fork Wilson River

**Riparian Management Area (RMA):** The area within 100 feet slope distance from the high water mark on each side of Type F streams.

**PROTECTION MEASURES:**

**YARDING and FELLING:**

Streams:

- All trees in the RMA outside of cable corridors 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 RMA prior to rigging the next yarding road.
- Adjacent trees will be felled away from or parallel to the RMA.
- 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.
- Ground yarding shall not be allowed within 50 feet of Type F streams

PREPARED BY: Chris Woodward  
Forester, Central Unit  
April 7, 2003