



"STEWARDSHIP IN FORESTRY"

# Timber Sale Appraisal Cost Summary Salander Top Sale 341-05-76

District: Coos

Date: 1/5/05

	Conifer	Hardwood	Total
<b>Gross Timber Sale Value</b>	\$3,328,393.46	\$12,380.55	\$3,340,774.01
		<b>Project Work</b>	(\$27,269.00)
		<b>Advertised Value</b>	\$3,313,505.01



# Timber Sale Appraisal Timber Description Salander Top Sale 341-05-76

"STEWARDSHIP IN FORESTRY"

**District:** Coos

**Location:** Portions of Sections 15 & 22, T23S, R10W; W.M., Douglas County, Oregon.

**Date:** 1/5/05

**Stand Stocking:** 60%

Species	Avg. DBH	Amortized%	Recovery%
Douglas - Fir	28	0	95
Western Hemlock / Fir	13	0	90
Alder (Red)	12	0	90

Volume by Grade	Douglas - Fir	Western Hemlock / Fir	Alder (Red)	Total
3P	308	0	0	308
SM	493	0	0	493
2S	4,234	159	0	4,393
3S	1,122	174	0	1,296
4S	0	26	0	26
CR 12"	0	0	35	35
<b>Total</b>	<b>6,157</b>	<b>359</b>	<b>35</b>	<b>6,551</b>

**Comments:** Pond Values Used: 4th Quarter 2004 + Local Pond Values.



"STEWARDSHIP IN FORESTRY"

# Timber Sale Appraisal

## Logging Conditions

### Salander Top

### Sale 341-05-76

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<b>Combination#:</b> 1	Douglas - Fir	100.00%
	Western Hemlock / Fir	100.00%
	Alder (Red)	100.00%
<b>Yarding Distance:</b>	Long (1,500 ft)	<b>Downhill Yarding:</b> No
<b>Logging System:</b>	Cable: Large Tower >=70	<b>Process:</b> Manual Delimiting
<b>Tree Size:</b>	Mature / Regen. Cut (900 Bft/tree), 3-5 logs/MBF	
<b>Loads/Day:</b>	12	<b>Bd. Ft./Load:</b> 4,800
<b>Cost/MBF:</b>	\$61.63	
<b>Machines:</b>		
	Log Loader (A)	
	Tower Yarder (Large)	



"STEWARDSHIP IN FORESTRY"

# Timber Sale Appraisal

## Logging Costs

### Salander Top

### Sale 341-05-76

Date: 1/5/05

Operating Seasons: 1.0

Profit & Risk: 10%

Project Costs: \$27,269

Other Costs (P/R): \$18,761

Slash Disposal: \$0

Other Costs: \$0

Miles of Road			
Dirt	Rock (Contractor)	Rock (State)	Paved
0.7	0.0	1.8	0.0

Road Maintenance: \$0.00

#### Hauling Costs

Species	\$/MBF	Trips/Day	MBF/Load
Douglas - Fir	\$0.00	2.0	5.0
Western Hemlock / Fir	\$0.00	2.0	4.0
Alder (Red)	\$0.00	2.0	3.5

#### Local Pond Values

Date	Species	Grade	Value
1/5/05	Alder (Red)	CR 12"	\$505.00



"STEWARDSHIP IN FORESTRY"

# Timber Sale Appraisal

## Logging Costs Breakdown

### Salander Top

### Sale 341-05-76

Costs	Douglas - Fir	Western Hemlock / Fir	Alder (Red)
<b>Logging</b>	61.63	61.63	61.63
<b>Road Maintenance</b>	1.02	1.07	1.07
<b>Fire Protection</b>	0.42	0.42	0.00
<b>Hauling</b>	48.42	63.89	73.00
<b>Other (P/R appl.)</b>	2.88	2.88	0.00
<b>Profit &amp; Risk</b>	11.44	12.99	13.57
<b>Slash Disposal</b>	0.00	0.00	0.00
<b>Scaling</b>	2.00	2.00	2.00
<b>Other</b>	0.00	0.00	0.00
<b>Total</b>	127.81	144.88	151.27

<b>Amortization</b>	0.00	0.00	0.00
<b>Pond Value</b>	651.89	427.98	505.00
<b>Stumpage</b>	524.08	283.10	353.73
<b>Amortized</b>	0.00	0.00	0.00



"STEWARDSHIP IN FORESTRY"

# Timber Sale Appraisal Summary Salander Top Sale 341-05-76

**Amortized**

	Douglas - Fir	Western Hemlock / Fir	Alder (Red)
<b>MBF</b>	0.00	0.00	0.00
<b>Value</b>	0.00	0.00	0.00
<b>Total</b>	0.00	0.00	0.00

**Unamortized**

	Douglas - Fir	Western Hemlock / Fir	Alder (Red)
<b>MBF</b>	6,157.00	359.00	35.00
<b>Value</b>	524.08	283.10	353.73
<b>Total</b>	3,226,760.56	101,632.90	12,380.55

**Gross Timber Sale Value**

**Recovery \$3,340,774.01**

Prepared by: Amelia Dexter

Date: 1/5/05

District: Coos

Phone: (541) 267-1759

## Summary of "Other Costs" for Timber Sale Appraisals

Sale Name: Salander Top

### 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>
<b>Felling</b>				
Felling of unmerch material	MBF	0	\$ 1.00	\$ -
Directional Felling	MBF	930	\$ 2.00	\$ 1,860.00
<b>Yarding and Loading</b>				
Rigging tailtree	per tree	12	\$ 100.00	\$ 1,200.00
Artificial guyline/tailtree support	anchor	3	\$ 500.00	\$ 1,500.00
Brand and paint logs	MBF	6551	\$ 1.00	\$ 6,551.00
Loader time for firewood stacking	Hours	6	\$ 75.00	\$ 450.00
<b>Snag Creation</b>				
Tree Topping	Trees	72	\$ 100.00	\$ 7,200.00
<b>Miscellaneous Costs</b>				
Log Placement in Stream	Crossings		\$ 582.15	\$ -
Additional Fire Equipment	Seasons		\$ 1,000.00	\$ -
Maintenance rock	Cubic Yards		\$ 18.00	\$ -
Safety Flagging and/or signing	per day		\$ 1;0.00	\$ -

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

**\$ 18,761.00**

### Additional "Other Cost" with no additional profit and Risk

	<u>Units</u>	<u>Quantity</u>	<u>Cost/unit</u>	<u>Total Cost</u>
Log Placement in Stream				
Non-required road construction	Stations			\$ -
Non-required road rocking	Cubic Yards			\$ -
Stream clearance	Feet			\$ -
Scaling (high piece count)	MBF		\$ 1.00	\$ -
<b>Road Easements:</b>				
Weyhaeuser Road Use Fee	MBF		\$ 4.43	\$ -
Lone Rock Timber, Road Amortization Fee	MBF		\$ 8.73	\$ -
Lone Rock Timber, Rock Wear Fee	MBF		\$ 0.42	\$ -

**Total additional "Other Cost" with no additional profit and Risk**

**\$ -**

**SUMMARY OF CONSTRUCTION COST**  
**Salander Top**

**Project No. 1A: Landing Construction**

Points: D (Area II) Length: n/a Type: n/a

**Excavation**

Cat time	5	hrs at	\$95.00	per hr	\$475.00
Excavator	15	hrs at	\$120.00	per hr	\$1,800.00
Laborer	15	hrs at	\$30.00	per hr	\$450.00

**Total Excavation \$2,725.00**

**Hauling**

Endhaul to waste area at Pt H (approx 1390 yds)	15	hrs at	\$65.00	per hr	\$975.00
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**Total Hauling \$975.00**

**Project 1A Cost \$3,700.00**

**Project No. 1B: Landing Construction**

Points: F (Area II) Length: n/a Type: n/a

**Excavation**

Cat excavation and shape fill material	20	hrs at	\$95.00	per hr	\$1,900.00
Excavation, load endhaul and dig stumps	20	hrs at	\$120.00	per hr	\$2,400.00
Laborer	20	hrs at	\$30.00	per hr	\$600.00

**Total Excavation \$4,900.00**

**Hauling**

Endhaul to fill areas in road (Pts E to F) (approx 2130 yds between 0+00-4+56)	20	hrs at	\$65.00	per hr	\$1,300.00
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**Total Hauling \$1,300.00**

**Project 1B Cost \$6,200.00**

**Project No. 1C: Landing Construction**

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

**Excavation**

Cat excavation and shape fill material	25	hrs at	\$95.00	per hr	\$2,375.00
Excavator to dig stumps and load endhaul	25	hrs at	\$110.00	per hr	\$2,750.00
Drill and Shoot (includes powder cost)	10	hrs at	\$150.00	per yd	\$1,500.00
Laborer	25	hrs at	\$30.00	per hr	\$750.00

**Total Excavation \$7,375.00**



**SUMMARY OF CONSTRUCTION COST  
Salander Top**

**Hauling**

Endhaul to fill areas in road (Pts F to G) (approx 1400 yds between 7+95-11+91)	15	hrs at	\$65.00	per hr	\$975.00
Endhaul to areas in road as needed btw (E to G), and waste area opposite Pt F	10	hrs at	\$65.00	per hr	\$650.00
				<b>Total Hauling</b>	<b>\$1,625.00</b>
				<b>Project 1C Cost</b>	<b>\$9,000.00</b>

**Move-in**

Equipment	Miles	Mileage Factor	Equipment Allowance	Total		
Excavator	35	0.74	\$533.00	\$394.42		
D7 Cat	35	0.74	\$387.00	\$286.38		
Drill & Comp	35	0.74	\$241.00	\$178.34		
Grader	35	0.74	\$241.00	\$178.34		
Dump Truck	35	0.74	\$144.00	\$106.56		
					<b>Total Move-in</b>	<b>\$1,144.04</b>
					<b>Project 1 Cost</b>	<b>\$20,045.00</b>

**Project 2A: Road and Landing Improvement**

Points	A to C (1920 Rd)	Length:	2230'	Type:	14' w/o ditch		
Excavator to remove small trees/brush		5	hrs at	\$120.00	per hr	\$600.00	
Cat time to open road and clear landing surface at Pt C		10	hrs at	\$95.00	per hr	\$950.00	
Smooth Road Surface (Grader)		3	hrs at	\$75.00	per hour	\$225.00	
Laborer		5	hrs at	\$30.00	per hour	\$150.00	
					<b>Project 2A Total</b>	<b>\$1,925.00</b>	

**Project 2B: Road Improvement**

Points	E to G	Length:	1715'	Type:	14' w/o ditch		
Excavator to remove small trees/brush		10	hrs at	\$120.00	per hr	\$1,200.00	
Cat to open road and prep for endhaul		20	hrs at	\$95.00	per hr	\$1,900.00	
Smooth Road Surface (Grader)		2	hrs at	\$75.00	per hour	\$150.00	
Laborer		10	hrs at	\$30.00	per hour	\$300.00	
					<b>Project 2B Total</b>	<b>\$3,550.00</b>	

**Project 2C: Landing Improvement**

Point	B	Length:	n/a	Type:	n/a		
Cat time to clear landing surface and short spur up to landing		4	hrs at	\$95.00	per hr	\$380.00	
					<b>Project 2C Total</b>	<b>\$380.00</b>	
					<b>Project 2 Cost</b>	<b>\$5,855.00</b>	

**SUMMARY OF CONSTRUCTION COST**  
**Salander Top**

**Project 3: Road Surfacing**

Points: 7000 Road below Pt D  
Length: 200'  
Rock Type: 1 1/2"-0" Hard Crushed Quarry  
Depth: n/a

1 1/2"-0" Rock (3.2 hr RT)                      95.76                      tons at                      \$14.29                      per ton                      \$1,368.41  
To be put down after logging is complete

**Project 3 Cost                      \$1,369.00**  
**Total Project Costs                      \$27,269.00**

## TIMBER SALE SUMMARY

### Salander Top

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% Douglas County.
4. **Sale Acreage:** The sale area is comprised of two units totaling 100 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. Existing interior roads were also deducted. The acreage was determined by ArcView software, a geographic information system.
5. **Volume by Species, Fund, and County:** See table on next page titled "Net Volumes and Acreage."
6. **Grade by Percent:**

Species	3 Peeler	Special Mill	2 Saw	3 Saw	4 Saw/Camp
Douglas-fir	5%	8%	69%	18%	0
Western Hemlock			44%	48%	7%
Hardwood	-----	-----	23%	28%	49%

7. **Cruise:** The units were variable plot cruised using the big basal area factor method. A 360 BAF wedge factor was used for measure trees and a 40 BAF was used for count. 22 Douglas-fir trees were measured and 79 count plots were taken. Salander Top was cruised by ODF Foresters and compiled using Superace in October 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	54	7.82

#### B. Stand Summary:

Species	D4H	Trees per Acre	Basal Area (ft <sup>2</sup> /ac)	Net MBF per acre
Douglas-fir	28	52	241	62
Western Hemlock	13	22	20	4
Hardwood	12	12	12	.3

C. Green Tree Retention:

Green trees are posted outside the sale boundary along the stream buffers.

Additionally, There are 142 scattered trees and snags posted in sale Area 1 and 260 posted in Area 2 as shown on Exhibit "A." The following green trees were removed from the final cruise volume:

Areas 1 and 2	Douglas-fir	Hemlock	Hardwood
Total Volume (mbf)	229	13	3

- 8. Timber Description:** Areas 1 and 2 are comprised of Douglas-fir second growth aged 120 to 150 years old. There is a minor red alder component and a scattered understory of western hemlock. There are few hard snags in the stand.
- 9. Topography:** The timber sale is located on the western slope of the Coast Range in the Salander Creek watershed. This sale has an elevation of 460 to 860 feet above sea level with slopes ranging from 15-80% and beyond. About midslope in each sale area a band of Eocene age sedimentary rock is often exposed, creating very hazardous sheer cliff faces and exposed headwalls. Portions of this sale have been posted out or painted with wildlife trees to minimize exposure to the most extreme of these areas.
- 10. Logging Method:** 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:** Access to the sale is by Douglas County Road #3 to the east end of the 1000 road. An unnumbered spur road (Point E to Point G) will be used to access the landing for Area 1 and landing E for Area 2. The 1920 road (from point A to C) will be used to access the rest of Area 2. A portion of the 7000 road will be used as well. The sale is located between the 18 and 19 ½ mile markers on the north side of the 1000 road.

**12. Projects:**

Project No. 1: Landing Construction

Project No. 2: Road and Landing Improvement

Project No. 3: Road Surfacing

## NET VOLUMES AND ACREAGE

SALE AREA & SPECIES		Tree cnt. 100% Units	NET VOLUMES (MBF)									
			By County and Fund								Total Vols.	Vol. per Acre
			Coos			Douglas						
Area	Spec	CSL	BOF	Total	CSL	BOF	Total	Total Vols.	Vol. per Acre			
I	D-fir			0	2,894			2894	2894	62		
	Hdwd			0	16			16	16	0.3		
	Cedar			0				0	0	0		
	Hemlock			0	169			169	169	4		
II	D-fir			0	3,263			3263	3263	62		
	Hdwd			0	18			18	18	0		
	Cedar			0				0	0	0		
	Hemlock			0	190			190	190	4		
TOTALS				0	0	6,551	0	6551	6551			

**TOTAL SALE VOLUME BY SPECIES**

Douglas-fir	6,157	MBF
Hemlock	359	MBF
Cedar	0	MBF
Hardwoods	35	MBF
<b>Total</b>	<b>6,551</b>	<b>MBF</b>

Report by: Salander Top

Date: 11/8/2004

Unit For. *Norm Klue*  
Date

Asst. Dist. For. *Greg Kemmeyer* 12/21/2004  
Date

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

**ACREAGE BY COUNTY (to nearest acre)**

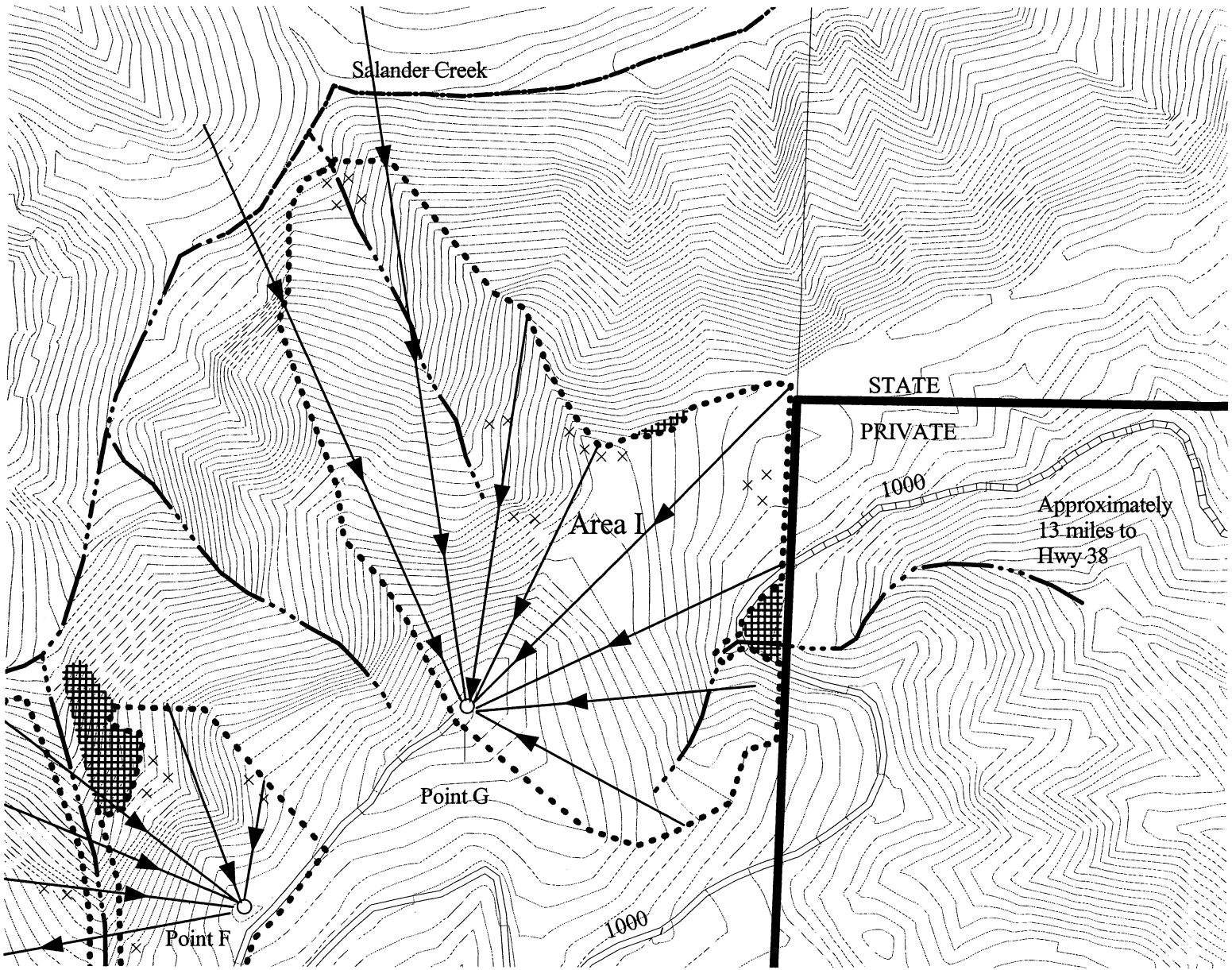
Sale Area	Coos County						Douglas County						TOTAL ACRES
	CSL			BOF			CSL			BOF			
	Conifer		Hard wood	Conifer		Hard woods	Conifer		Hard woods	Conifer		Hard woods	
cc	pc	cc		pc	cc		pc	cc		pc			
I								47					47
II								53					53
SUM	0	0	0	0	0	0	0	100	0	0	0	0	100

cc- clearcut

pc- partial cut

BOF - Board of Forestry

CSL - Common School Land



**LEGEND**

- Logging Corridors
- Green Tree Retention
- Project Points
- Landings
- Waste Area
- Timber Sale Boundaries
- Roads**
- Purchaser Maintained
- State Maintained
- Streams**
- Type N
- Type F
- Marbled Murrelet Management Area
- Seasonally Restricted
- Green Tree Retention
- State Forest Boundary
- 20 foot contours

**LOGGING PLAN**

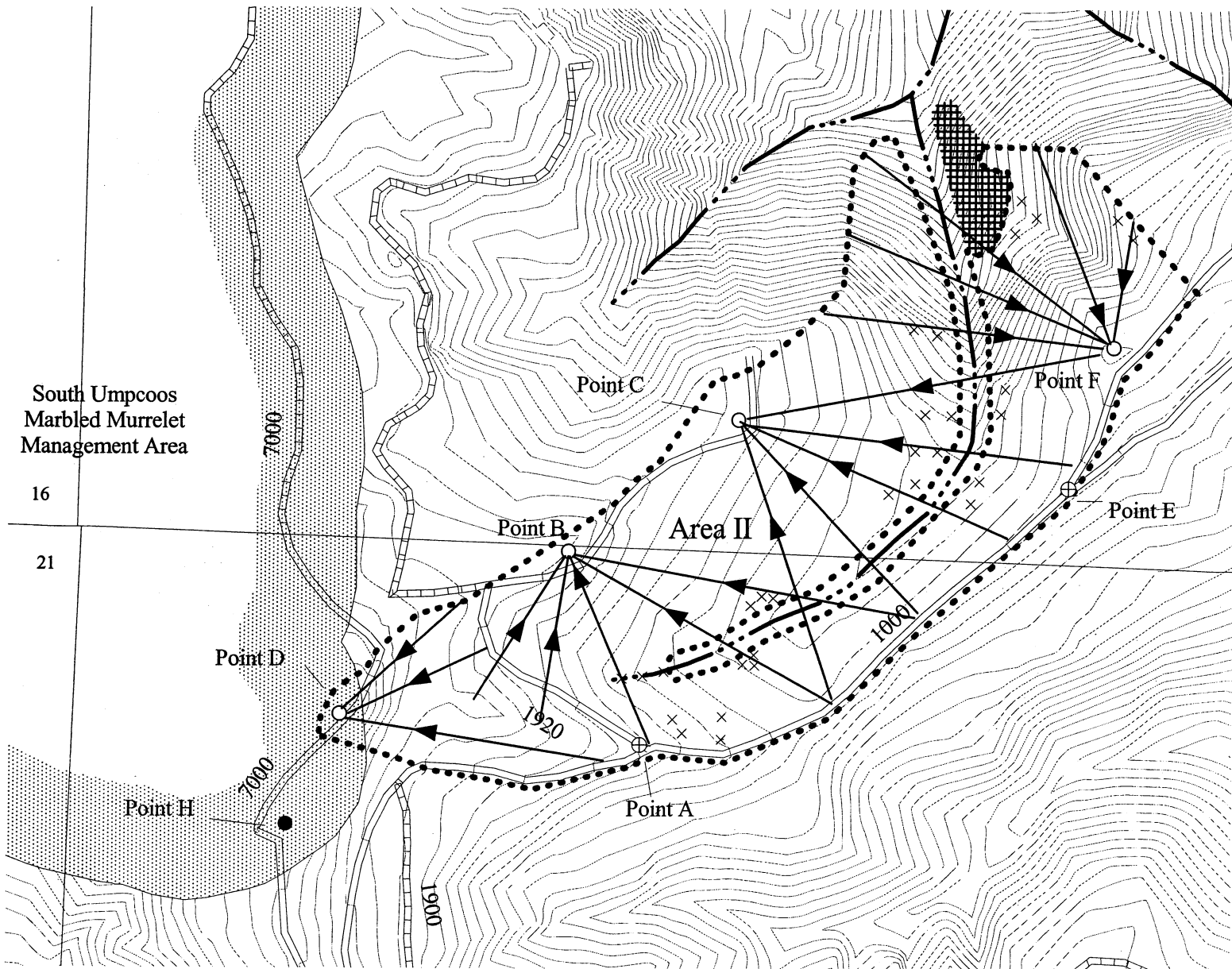
OF TIMBER SALE NO.  
 341-05-76  
 SALANDER TOP  
 PORTIONS OF SECTIONS 15 AND 22; T23S, R10W, W.M.  
 DOUGLAS COUNTY, OR

APPROX. SCALE 1" = 500'



Approximate Net Acreage  
 Area I = 47  
 Area II = 53





South Umpcoos  
Marbled Murrelet  
Management Area

16

21

**LEGEND**

- Logging Corridors
- Green Tree Retention
- Project Points
- Landings
- Waste Area
- Timber Sale Boundaries
- Roads**
- Purchaser Maintained
- State Maintained
- Streams**
- Type N
- Type F
- Marbled Murrelet Management Area
- Seasonally Restricted Green Tree Retention
- State Forest Boundary
- 20 foot contours

**LOGGING PLAN**

OF TIMBER SALE NO.  
341-05-76  
SALANDER TOP  
PORTIONS OF SECTIONS 15 AND 22; T23S, R10W, W.M.  
DOUGLAS COUNTY, OR

APPROX. SCALE 1" = 500'



Approximate Net Acreage  
Area I = 47  
Area II = 53



# WRITTEN PLAN

**SALE NAME:** Salander Top

**LOCATION:** Portions of Sections 15 and 22, T23S R10W, Douglas County, Oregon

**LANDOWNER:** Oregon Department of Forestry; 63612 Fifth Road, Coos Bay, Or.

**CONTRACT PURCHASER:** \_\_\_\_\_

**NOTIFICATION NO:** \_\_\_\_\_

## **SITUATION AND PROTECTED RESOURCE**

Area 1 is adjacent to Salander Creek, a medium Type F stream (native cutthroat).

## **LAYOUT**

Landing locations have been provided to enable deflection for suspension of logs while yarding the sale area.

## **STREAM BUFFER**

A minimum 100-foot slope distance no harvest buffer has been posted on the ground in Area I.

## **FELLING AND BUCKING**

1. Trees shall be directionally felled parallel to or away from stream riparian management areas (RMA's) as feasible.
2. High stumps shall be left as needed to prevent logs from entering stream channels as shown on the Exhibit "A".

## **YARDING**

1. If necessary line may be pulled through the Type F buffer to the other side of the draw in order to obtain adequate suspension.
2. Any cable corridors needed within the RMA will be spaced a minimum of 100 feet apart.

## **OPERATIONS PLAN**

Purchaser shall attach a yarding plan indicating landing locations, machinery and procedures to be used to obtain adequate suspension in the sale area and to minimize impacts during the felling process.

\_\_\_\_\_  
O.D.F. REPRESENTATIVE

DATE: \_\_\_\_\_

\_\_\_\_\_  
PURCHASER REPRESENTATIVE

DATE: \_\_\_\_\_

\_\_\_\_\_  
OPERATOR REPRESENTATIVE (if listed on notification)

DATE: \_\_\_\_\_