



"STEWARDSHIP IN FORESTRY"

# Timber Sale Appraisal Cost Summary Trout Head Sale 341-06-83

District: Coos

Date: 4/12/06

	Conifer	Hardwood	Total
<b>Gross Timber Sale Value</b>	\$1,564,125.89	\$37,266.32	\$1,601,392.21
		<b>Project Work</b>	(\$39,754.00)
		<b>Advertised Value</b>	\$1,561,638.21



# Timber Sale Appraisal Timber Description Trout Head Sale 341-06-83

"STEWARDSHIP IN FORESTRY"

**District:** Coos

**Location:** Portions of Section 4, T24S, R11W, and portions of Sections 27 and 28, T23S, R11W, W.M., Coos County, Oregon.

**Date:** 4/12/06

**Stand Stocking:** 60%

Species	Avg. DBH	Amortized%	Recovery%
Douglas - Fir	27	0	95
Western Hemlock / Fir	17	0	90
Alder (Red)	14	0	85

Volume by Grade	Douglas - Fir	Western Hemlock / Fir	Alder (Red)	Total
3P	137	0	0	137
SM	260	0	0	260
2S	2,142	0	25	2,167
3S	155	11	38	204
3S 12"+	277	0	0	277
4S	15	0	28	43
Total	2,986	11	91	3,088

**Comments:** Pond Values Used: 1st Quarter Calendar Year 2006.

Hauling Costs adjusted to make equivalent to \$700 daily truck cost.

Western Red Cedar Stumpage Price = Pond Value minus logging cost.  
\$650/MBF = \$850/MBF - \$200/MBF

Summary of Other Costs (See attached sheet)



# Timber Sale Appraisal

## Logging Conditions

### Trout Head

### Sale 341-06-83

"STEWARDSHIP IN FORESTRY"

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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>	Medium (800 ft)		<b>Downhill Yarding:</b> No
<b>Logging System:</b>	Cable: Large Tower $\geq 70$		<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> 4,500
<b>Cost/MBF:</b>	\$65.74		
<b>Machines:</b>			
	Log Loader (A)		
	Tower Yarder (Large)		



# Timber Sale Appraisal Logging Costs Trout Head Sale 341-06-83

"STEWARDSHIP IN FORESTRY"

Date: 4/12/06

Operating Seasons: 0.8

Profit & Risk: 10%

Project Costs: \$39,754

Other Costs (P/R): \$10,645

Slash Disposal: \$0

Other Costs: \$0

Miles of Road			
Dirt	Rock (Contractor)	Rock (State)	Paved
0.1	1.1	0.0	0.0

Road Maintenance: \$0.00

### Hauling Costs

Species	\$/MBF	Trips/Day	MBF/Load
Douglas - Fir	\$73.88	2.0	4.5
Western Hemlock / Fir	\$70.00	2.0	4.5
Alder (Red)	\$85.00	2.0	3.5



# Timber Sale Appraisal Logging Costs Breakdown Trout Head Sale 341-06-83

"STEWARDSHIP IN FORESTRY"

<b>Costs</b>	<b>Douglas - Fir</b>	<b>Western Hemlock / Fir</b>	<b>Alder (Red)</b>
<b>Logging</b>	65.74	65.74	65.74
<b>Road Maintenance</b>	0.63	0.67	0.71
<b>Fire Protection</b>	0.70	0.70	0.70
<b>Hauling</b>	77.77	77.78	100.00
<b>Other (P/R appl.)</b>	3.45	3.45	3.45
<b>Profit &amp; Risk</b>	14.83	14.83	17.06
<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>	165.12	165.17	189.66

<b>Amortization</b>	0.00	0.00	0.00
<b>Pond Value</b>	687.78	480.00	599.18
<b>Stumpage</b>	522.66	314.83	409.52
<b>Amortized</b>	0.00	0.00	0.00



"STEWARDSHIP IN FORESTRY"

# Timber Sale Appraisal Summary Trout Head Sale 341-06-83

**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>	2,986.00	11.00	91.00
<b>Value</b>	522.66	314.83	409.52
<b>Total</b>	1,560,662.76	3,463.13	37,266.32

## Gross Timber Sale Value

**Cash \$1,601,392.21**

Prepared by: Nick Morris

Date: 4/12/06

District: Coos

Phone: (541) 267-1756

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

Sale Name: Trout Head

### 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	900	\$ 2.00	\$ 1,800.00
<b>Yarding and Loading</b>				
Artificial guyline support	anchor	4	\$ 500.00	\$ 2,000.00
Brand and paint logs	MBF	2870	\$ 1.00	\$ 2,870.00
Loader time for firewood stacking	Hours	9	\$ 75.00	\$ 675.00
<b>Snag Creation</b>				
Tree Topping	Trees	28	\$ 100.00	\$ 2,800.00
<b>Miscellaneous Costs</b>				
Log Placement in Stream	Crossings	0	\$ -	\$ -
Additional Fire Equipment	Seasons	0.5	\$ 1,000.00	\$ 500.00
Maintenance rock per section 5	Cubic Yards	0	\$ 18.00	\$ -
Safety Flagging and/or signing	per day	0	\$ 110.00	\$ -

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

**\$ 10,645.00**

### 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  
Trout Head**

**Project 1: Road and Landing Construction**

Points: A to B      Length: 720'      Type: 14' subgrade no ditch

**Clearing and Grubbing**

Clear and Grub      0.7      acres at      \$870.00      per acre      \$609.00

**Total Clear and Grub      \$609.00**

**Excavation**

Excavator	<u>30</u>	hrs at	<u>\$120.00</u>	per hr	<u>\$3,600.00</u>
Cat time (road work & prep waste area Pt I)	<u>30</u>	hrs at	<u>\$120.00</u>	per hr	<u>\$3,600.00</u>
Drill and shoot	<u>204</u>	yds at	<u>\$4.00</u>	per yd	<u>\$816.00</u>
Dump Truck - haul waste material to Pt I (0.34 mi one-way)	<u>15</u>	hrs at	<u>\$75.00</u>	per hr	<u>\$1,125.00</u>
Laborer	<u>30</u>	hrs at	<u>\$30.00</u>	per hour	<u>\$900.00</u>

**Total Excavation      \$10,041.00**

**Grader**

Grader to smooth road surface      1      hrs at      \$75.00      per hour      \$75.00

**Total Grader      \$75.00**

**Move-in**

Equipment	Miles	hrs	Lowboy Rate/hr	Total
Excavator	30	3.5	\$95.00	\$332.50
Cat	30	3.5	\$95.00	\$332.50
Grader	30	3.5	\$95.00	\$332.50
Drill & Comp	30	3.5	\$95.00	\$332.50
Dump Truck	30	3.5	\$95.00	\$332.50

**Total Move-in:      \$1,662.50**

**Project 1 Total      \$12,388.00**

**Project 2A: Road Improvement**

Points: C to F      Length: 4575'      Type: 14' subgrade w/ditch

Grader time      4      hrs at      \$75.00      per hour      \$300.00

**Total Project 2A      \$300.00**

**SUMMARY OF CONSTRUCTION COST  
Trout Head**

**Project 2B: Landing Improvement**

Points: D, E, F      Length: n/a      Type: n/a  
(includes move between Areas I and II)

Excavator to remove cutbank slough and material on outside edge of road	<u>6</u>	hrs at	<u>\$120.00</u>	per hour	<u>\$720.00</u>
Dump truck to haul material to Pt H	<u>5.5</u>	hrs at	<u>\$75.00</u>	per hour	<u>\$412.50</u>
Cat time for waste area prep at Pt H	<u>6</u>	hrs at	<u>\$120.00</u>	per hour	<u>\$720.00</u>

**Total Project 2B      \$1,852.50**

**Project 2 Total      \$2,153.00**

**Project 3: Road Surfacing**

Points: C to F  
Rock Type: 1 1/2"-0" Hard Crushed Quarry  
Depth: As needed after logging

1 1/2"-0" Rock (2.0 hr RT)	<u>180</u>	yds at	<u>\$17.97</u>	per yd	<u>\$3,234.60</u>
Grader to prepare road surface and to process rock (includes move-in)	<u>180</u>	yds at	<u>\$3.50</u>	per yd	<u>\$630.00</u>

**Project 3 Total      \$3,865.00**

**Project 4: Dry Ridge Rock Stockpile**

Location: 7.5 mi on 2000 Rd  
Measured amount: 1200 cu yds  
Size: 1 1/2" - 0"

Cost per cu yd at crusher:	\$9.64	per yd
Haul cost per cu yd (1.8 hr. RT):	\$7.50	per yd
Piling and shaping cost per cu yd:	<u>\$0.65</u>	per yd
Total cost per cu yd:	\$17.79	per yd
Total cu yds:	1200	yards

**Total Cost for Stockpile rock:      \$21,348.00**

**Project 4 Total      \$21,348.00**

**Total Project Costs      \$39,754.00**

## TIMBER SALE SUMMARY

Trout Head

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 total sale area is 56 net acres. Buffered areas are posted outside the sale area and are not included in the net acreage calculation. The acreage was determined using orthophoto imagery on the ARCVIEW Geographic Information System program.
5. **Volume by Species, Fund, and County:** See attached table.
6. **Grade by Percent:**

Species	3 Peeler	Special Mill	2 Saw	3 Saw	3 Saw Large Diameter	4 Saw/Camp
Douglas-fir	5 %	9%	72 %	5 %	9 %	----
Red Alder	----	----	27%	42%	----	31%
Western Red Cedar	----	----	----	----	----	----
Western Hemlock	----	----	----	100%	----	----
Sitka Spruce	----	----	----	----	----	----

7. **Cruise:** The unit was variable plot cruised using the Big BAF cruise design, which consisted of 75 nested plots. Each plot consists of both a full 40 BAF count plot and a full 360 BAF measure plot. The 40 BAF count plot was used to tally the number of trees by species to determine the stand basal area. The 40 BAF plot was then used to select hardwoods and minor species to cruise and the 360 BAF plot to select Douglas-fir trees to cruise. Selected trees were cruised for diameter at breast height, height, grade and defect. Forty-seven Big BAF Douglas-fir trees were cruised for diameter, height, grade and defect. The cruise was analyzed using the SuperACE cruising program.

A. Cruise Summary Data:

Diameter	Top Diameter	Form Point	Form Factor	CV %	SE %
D4H	Total Height	Conifer: 16' Hardwood: 16'	Estimated or measured on all trees	56.3	7.97

B. Stand Summary:

Species	D4H	Trees per Acre	Basal Area (ft <sup>2</sup> /ac)	BF per acre
Douglas-fir	27	56	203	53,320
Red Alder	14	18	20	1,630
Western Cedar	----	----	----	----
Sitka Spruce	----	----	----	----
Western Hemlock	17	2	3	196

C. Green Tree Retention Summary: All green trees were posted outside of the timber sale.

**8. Timber Description:** The timber sale is a moderately stocked stand of approximately 102-122 year old second growth Douglas-fir, of good to average quality, with red alder, western red cedar, and western hemlock in the understory. Conifers range in height from 70 to 200 feet tall while hardwoods are about 60 feet.

**9. Topography:** The unit ranges from 10% to 70% slope. There are a few benches as well as steep drainages.

**10. Logging Method:** The sale will be cable logged mostly uphill with single-end suspension over the unit; full suspension will be required over designated streams and RMAs. A motorized carriage will be required to obtain the necessary suspension. Tailtrees may need to be placed for yarding the sale area as approved in the operations plan.

**11. Access:** From Coos Bay, proceed northeast up the Coos River Highway for approximately 13 miles to Allegany. Proceed up the West Fork of the Millicoma road for approximately 5 miles to forest road 2000. Proceed up the 2000 for 4 miles to area 4 and 5, 7.5 miles to area 1, and 1 mile down the 2300 to areas 2 and 3.

**12. Projects:**

Project No. 1: Road and Landing Construction

Project No. 2: Road and Landing Improvement

Project No. 3: Road Surfacing

Project No. 4: Dry Ridge Rock Stockpile

## NET VOLUMES AND ACREAGE

SALE AREA & SPECIES		Tree cnt. 100% Units	NET VOLUMES (MBF)							Vol. per Acre
			By County and Fund						Total Vols.	
			Coos			Douglas				
Area	Spec	CSL	BOF	Total	CSL	BOF	Total			
I-V	D-fir	2986		2986			0	2986	53.32	
	Hdwd	91.0		91.0			0	91	1.63	
	Cedar			0			0	0	0.00	
	Spruce			0			0	0	0.000	
	Hemlock	11.0		11			0	11	0.196	
<b>TOTALS</b>			<b>3088.0</b>	<b>0</b>	<b>3088.0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3088.0</b>	

**TOTAL SALE VOLUME BY SPECIES**

Douglas-fir	<u>2986</u>	MBF
Hemlock	<u>11.0</u>	MBF
Cedar	<u>0</u>	MBF
Spruce	<u>0</u>	
Hardwoods	<u>91.0</u>	MBF
Total	<u>3088.0</u>	MBF

Report by: Trout Head

Date: 02/17/2006

Unit For. *Stom Thie*  
Date

Asst. Dist. For. *Greg Kreimeyer 3.2.2006*  
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	26												26
II	2												2
III	10												10
IV	14												14
V	4												4
<b>SUM</b>	<b>56</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>56</b>

cc- clearcut

pc- partial cut

BOF - Board of Forestry

CSL - Common School Land

## CRUISE VOLUME COMPUTATION REPORT

SALE NAME: Trout Head  
 LEGAL LOCATION: T24S, R10W, Sec. 4 & T23N R11W Sec. 27 & 28

DATE: 12/21/2005  
 BY: Nick Morris

<b>GROSS VOLUME MBF *</b>				
SPECIES>>	Doug-fir	Hemlock	Hardwds	TOTAL
AREA	BY AREA			
I-V	3281	12.1	101.5	3395
Less GTR Vol.	0.0	0.0	0	0
Less Log Placement				
GrossNet	3281	12.1	101.5	3395

### DEFECT AND BREAKAGE \*

ALL AREAS

Species	Doug-fir	Hemlock	Hardwds
Field cull	0.02	0.02	0.02
Hidden cull	0.02	0.02	0.02
Breakage	0.05	0.02	0.06
Total	0.09	0.06	0.10

### NET VOLUME BY MBF

SPECIES	Doug-fir	Hemlock	Hardwds	TOTALS
AREA	BY AREA			
I-V	2986	11	91	3088

TOTALS                                      2986                                      11                                      91                                      3088

### NET VOLUME BY GRADE AND MBF \*

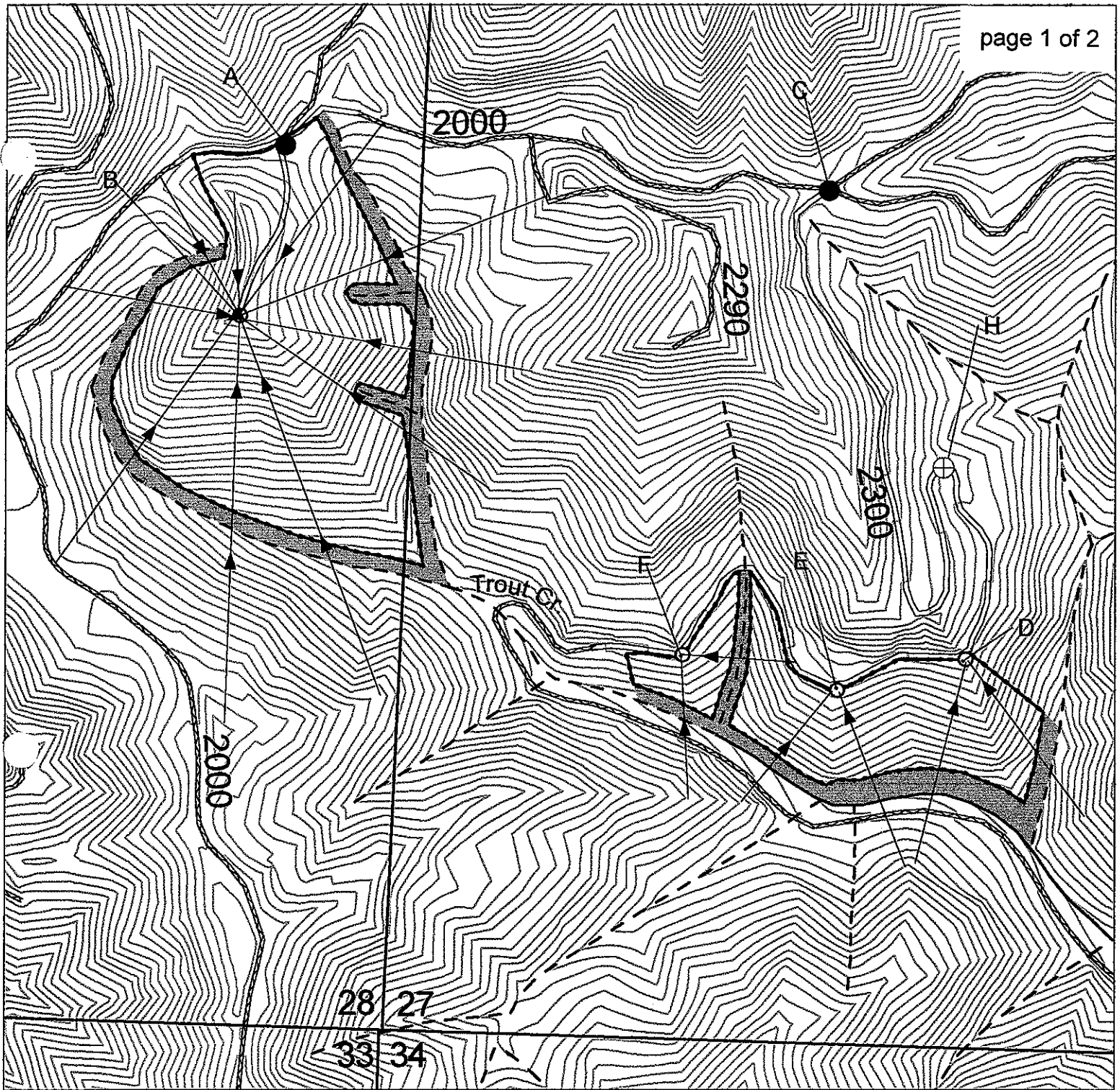
Grade >>>>>>>>>>	3 PEE	SM	2 SAW	3 SAW	Big 3 SAW	4 SAW/CR	check value
Area                      Species							
Doug-Fir	137	260	2141	155	277	15	2986
Hemlock	0	0	0	11	0	0	11
Hardwoods	0	0	25	38	0	28	91

### GRADE DISTRIBUTION BY PERCENT

Grade >>>>>>>>>>	3 PEE	SM	2 SAW	3 SAW	Big 3 SAW	4 SAW	
Doug-fir	5%	9%	72%	5%	9%	0.5%	1.00
Hemlock	0%	0%	0%	100%	0%	0%	1.00
Hardwoods	0%	0%	27%	42%	0%	31%	1.00

### Work-Up Grade Percents\*

	TOTAL	3PEE	S.M.	2SAW	3SAW	Big 3 SAW	4SAW
Doug-Fir	100	4.6	8.7	71.7	5.2	9.3	0.5
Hemlock	100	0.0	0.0	0.0	100.0	0.0	0.0
Hardwood	100	0	0	27	42	0	31



LEGEND	
●	Project Point
⊕	Waste Area
○	Landing
□	Section Line
▬	State Maintained Road
▬	Purchaser Maintained Road
▬	Sale Boundary
▬	Type F Stream
▬	Type N Stream
▬	20' Contours
▬	Stream Buffer
▬	Yarding Corridor

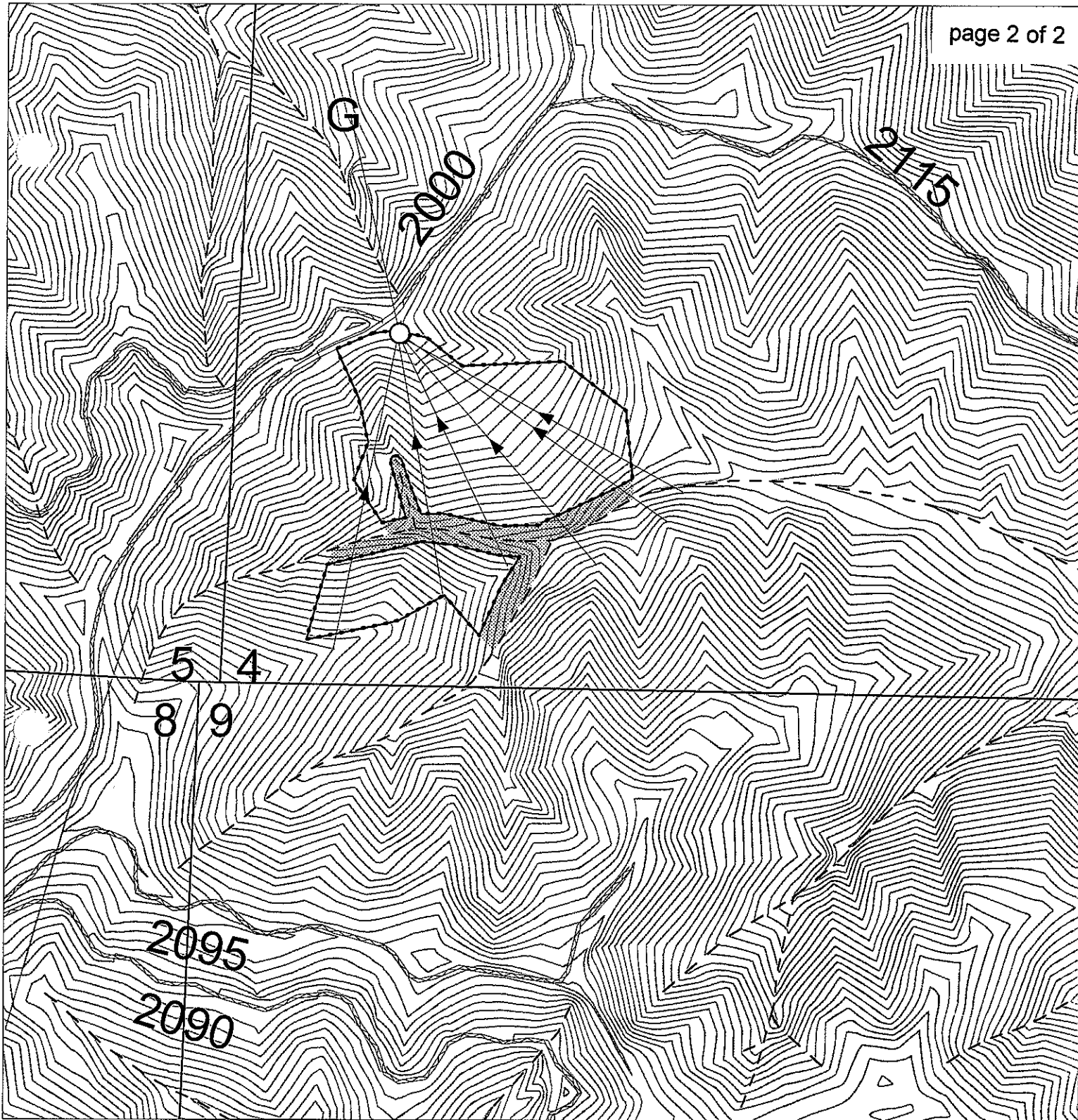
**LOGGING PLAN**  
 OF TIMBER SALE CONTRACT NO.  
 341-06-83  
 TROUT HEAD AREAS 1, 2 & 3  
 PORTIONS OF SECTIONS 27 & 28  
 T23S, R11W  
 W.M. COOS COUNTY, OREGON



Area	Acres
1	26
2	02
3	10
<b>Total</b>	<b>38</b>



Approx. Scale: 1" = 500'



LEGEND	
	Landing
	State Maintained Road
	Purchaser Maintained Road
	Section Line
	Sale Boundary
	Type F Stream
	Type N Stream
	Reforestation
	Stream Buffer

**LOGGING PLAN**  
 OF TIMBER SALE CONTRACT NO.  
 341-06-83  
 TROUT HEAD AREAS 4 & 5  
 PORTIONS OF SECTION 4  
 T24S, R11W, W.M. COOS COUNTY, OREGON

Area	Acres
4	14
5	04
<b>Total</b>	<b>18</b>



Approx. Scale: 1" = 500'

