



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Forlorn Folley
Sale 341-12-30

District: Coos

Date: September 06, 2011

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$1,006,828.02	\$0.00	\$1,006,828.02
		Project Work:	\$(41,293.00)
		Advertised Value:	\$965,535.02



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District: Coos

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timber description

Location: Portions of Section 36, T21S, R7W, W.M., Douglas, County, Oregon.

Stand Stocking: 60%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	16	0	95
Western Hemlock / Fir	21	0	95

Volume by Grade	2S	3S 10" -	3S 12"+	4S	SM	Total
Douglas - Fir	1,822	669	182	243	121	3,037
Western Hemlock / Fir	0	128	0	0	0	128
Total	1,822	797	182	243	121	3,165



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District: Coos

Date: September 06, 2011

comments: Pond Values Used: 2nd Quarter Calendar Year 2011.

Regeneration harvest of approximately 96 net acres of approximately 60 to 100 year-old mature second growth.

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost
\$767/MBF = \$950/MBF - \$183/MBF

Red Alder and Other Hardwoods Stumpage Price = Pond Value minus Logging Cost
\$342/MBF = \$525/MBF - \$183/MBF

SCALING COST ALLOWANCE = \$5.00/MBF

FUEL COST ALLOWANCE = \$4.00/Gallon

HAULING COST ALLOWANCE
Hauling costs equivalent to \$740 daily truck cost.

Other Costs (with Profit & Risk to be added):
See "Summary of Other Costs" sheet.
TOTAL Other Costs (with Profit & Risk to be added) = \$14,080

Other Costs (No Profit & Risk added):
See "Summary of Other Costs" sheet.
TOTAL Other Costs (No Profit & Risk added) = \$48,931.21



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Forlorn Folley Sale 341-12-30

District: Coos

Date: September 06, 2011

logging conditions

combination#: 1
Douglas - Fir 35.00%
Western Hemlock / Fir 35.00%

yarding distance: Long (1,500 ft)
logging system: Cable: Large Tower >=70
tree size: Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF
loads / day: 9.0
cost / mbf: \$85.50

downhill yarding: No
Process: Manual Delimiting
bd. ft / load: 4,800

machines: Log Loader (A)
Tower Yarder (Large)

combination#: 2
Douglas - Fir 55.00%
Western Hemlock / Fir 55.00%

yarding distance: Long (1,500 ft)
logging system: Cable: Large Tower >=70
tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF
loads / day: 7.0
cost / mbf: \$121.48

downhill yarding: No
Process: Stroke Delimber
bd. ft / load: 4,500

machines: Log Loader (A)
Stroke Delimber (A)
Tower Yarder (Large)

combination#: 3
Douglas - Fir 10.00%
Western Hemlock / Fir 10.00%

yarding distance: Medium (800 ft)
logging system: Shovel
tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF
loads / day: 7.0
cost / mbf: \$45.66

downhill yarding: No
Process: Stroke Delimber
bd. ft / load: 4,500

machines: Stroke Delimber (B)



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
 Forlorn Folley
 Sale 341-12-30

District: Coos

Date: September 06, 2011

logging costs

Operating Seasons:	1.00	Profit Risk:	10.00%
Project Costs:	\$41,293.00	Other Costs (P/R):	\$14,080.00
Slash Disposal:	\$0.00	Other Costs:	\$48,931.21

Miles of Road

Road Maintenance: \$0.00

Dirt	Rock (Contractor)	Rock (State)	Paved
1.0	3.0	0.0	0.0

Hauling Costs

Species	\$ / MBF	Trips/Day	MBF / Load
Douglas - Fir	\$0.00	4.0	4.8
Western Hemlock / Fir	\$0.00	4.0	4.8

Local Pond Values

Date	Specie	Grade	Value
9/6/11	Douglas - Fir	SM	\$560.00
9/6/11	Douglas - Fir	2S	\$530.00
9/6/11	Douglas - Fir	3S 10" - 11"	\$510.00
9/6/11	Douglas - Fir	3S 12"+	\$195.00
9/6/11	Douglas - Fir	4S	\$495.00
9/6/11	Western Hemlock / Fir	3S 10" - 11"	\$435.00



"STEWARDSHIP IN FORESTRY"

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 Forlorn Folley
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District: Coos

Date: September 06, 2011

logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas - Fir									
\$101.30	\$3.84	\$1.39	\$36.79	\$4.45	\$14.78	\$0.00	\$5.00	\$15.46	\$183.01
Western Hemlock / Fir									
\$101.30	\$3.84	\$1.39	\$36.79	\$4.45	\$14.78	\$0.00	\$5.00	\$15.46	\$183.01

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$503.91	\$320.90	\$0.00
Western Hemlock / Fir	\$0.00	\$435.00	\$251.99	\$0.00



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District: Coos

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summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00
Western Hemlock / Fir	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	3,037	\$320.90	\$974,573.30
Western Hemlock / Fir	128	\$251.99	\$32,254.72

Gross Timber Sale Value

Recovery: \$1,006,828.02

Prepared by: Gloria Clary

Phone: 541-267-1757

Summary of "Other Costs" for Timber Sale Appraisals

Sale Name: Forlorn Folley

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>
Felling				
Felling of unmerch material	MBF	250	\$ 1.00	\$ 250.00
Directional Felling	MBF	1250	\$ 2.00	\$ 2,500.00
Yarding and Loading				
Ground Based Equipment Wash	Hours	6	\$ 65.00	\$ 390.00
Locate Corridors and Skid Roads	MBF	25	\$ 5.00	\$ 125.00
Artificial guyline support	Anchor	2	\$ 500.00	\$ 1,000.00
Brand and paint logs	MBF	3165	\$ 1.00	\$ 3,165.00
Loader time for firewood stacking	Hours	0	\$ 75.00	\$ -
Snag Creation				
Tree Topping	Trees		\$ 100.00	\$ -
Tree Girdling	Trees		\$ 20.00	\$ -
Miscellaneous Costs				
Log Placement in Stream	Crossings	1	\$ 4,050.00	\$ 4,050.00
Additional Fire Equipment	Seasons	1	\$ 1,000.00	\$ 1,000.00
Safety Flagging and/or signing	Day	8	\$ 150.00	\$ 1,200.00
Cover landing slash pile w/ sheeting	Pile	8	\$ 50.00	\$ 400.00
Total additional "Other Cost" with additional profit and risk to be added				\$ 14,080.00

Additional "Other Cost" with no additional profit and Risk

	<u>Units</u>	<u>Quantity</u>	<u>Cost/unit</u>	<u>Total Cost</u>
Non-required road construction	Stations		\$	\$ -
Non-required road rocking	Cubic Yards		\$	\$ -
Stream clearance	Feet		\$	\$ -
Scaling (high piece count)	MBF		\$ 1.00	\$ -
Road Easements:				
Seneca Jones Timber Company~Road Use Fee	3165 MBF	1	\$ 6.75	\$ 21,363.75
Seneca Jones Timber Company~ Rock Wear and Road Maintenance fee	3165 MBF	5.41	\$ 1.61	\$ 27,567.46
Total additional "Other Cost" with no additional profit and Risk				\$ 48,931.21

NET VOLUMES AND ACREAGE

Forlorn Folley 341-12-30

SALE AREA & SPECIES		Tree cnt. 100% Units	NET VOLUMES (MBF)								Vol. per Acre
			By County and Fund								
Area	Spec		Coos			Douglas			Total Vols.		
		CSL	BOF	Total	CSL	BOF	Total				
I - IV	D-fir					3037			3037	3037	31.6
	Hemlock					128			128	128	1.3
	Red Cedar										
	Grand Fir										
	Hdwd										
TOTALS			0	0	0	3165	0	3165	3165		

TOTAL SALE VOLUME BY SPECIES

Douglas-fir	3037	MBF
Hemlock	128	MBF
Red Cedar	0	MBF
Grand-fir	0	
Hardwoods	0	MBF
Total	3165	MBF

Report by: Ryan Greco

Date: 06/28/2011

Unit For. Jim W. Hayes 7/6/2011
Date

Asst. Dist. For. Alma Klein 7/6/11
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 - IV							96							96
														0
														0
														0
SUM	0	0	0	0	0	0	96	0	0	0	0	0	0	96

cc- clearcut

pc- partial cut

BOF - Board of Forestry

CSL - Common School Land

SALE NAME: Forlorn Folley
 LEGAL LOCATION: T21S, R7W Section 36, WM. Douglas County, OR

DATE: 06/27/2011
 BY: Gloria Clary

SPECIES>> AREA	GROSS VOLUME MBF					TOTAL BY AREA
	Doug-fir	Hemlock	Red Cedar	Grand Fir	Hardwds	
AREAS I - IV	3758	154	0	0	0	3,912
Less GTR Vol.	200	6	0	0	0	206
Less Fish Log Placement	17	0	0	0	0	17
Less DWD Vol.	10	2	0	0	0	12
TOTAL	3531	146	0	0	0	3677

Species	Doug-fir	Hemlock	Red Cedar	Grand Fir	Hardwds
Field cull	0.03	0.02	0	0	0
Hidden cull	0.05	0.05	0	0	0
Breakage	0.06	0.05	0	0	0
Total	0.14	0.12	0.00	0.00	0.00

SPECIES AREA	NET VOLUME BY MBF BY AREA					TOTALS BY AREA
	Doug-fir	Hemlock	Red Cedar	Grand Fir	Hardwds	
AREAS I - IV	3037	128	0	0	0	3165
TOTALS	3037	128	0	0	0	3165

		NET VOLUME BY GRADE AND MBF						
Grade >>>>>>>>>>	Species	2 PEE	3 PEE	SM	2SAW	3SAW(12"+)	3SAW	4SAW
AREAS I - IV	Doug-Fir	0	0	121	1822	182	669	243
	Hdwds	0	0	0	0	0	0	0
	Red Cedar	0	0	0	0	0	0	0
	Hemlock	0	0	0	0	0	128	0
	Grand Fir	0	0	0	0	0	0	0

		GRADE DISTRIBUTION BY PERCENT						
Grade >>>>>>>>>>	Species	2 PEE	3 PEE	SM	2SAW	3SAW(12"+)	3SAW	4SAW
	Doug-fir	0%	0%	4%	60%	6%	22%	8%
	Hardwood	0%	0%	0%	0%	0%	0%	0%
	Red Cedar	0%	0%	0%	0%	0%	0%	0%
	Hemlock	0%	0%	0%	0%	0%	100%	0%
	Grand Fir	0%	0%	0%	0%	0%	0%	0%

SUMMARY OF CONSTRUCTION COST

Forlorn Folley

Project 1A: Road and Landing Construction

Points: C to D Length: 2755' Type: 14' no ditch
 (includes landing at E)

Excavator	<u>50</u>	hrs at	<u>\$125.00</u>	per hour	<u>\$6,250.00</u>
Cat time	<u>50</u>	hrs at	<u>\$125.00</u>	per hour	<u>\$6,250.00</u>
Drill and shoot	<u>35</u>	hrs at	<u>\$250.00</u>	per hour	<u>\$8,750.00</u>
Dump Truck	<u>30</u>	hrs at	<u>\$100.00</u>	per hour	<u>\$3,000.00</u>
Grader	<u>2</u>	hrs at	<u>\$85.00</u>	per hour	<u>\$170.00</u>
Laborer	<u>50</u>	hrs at	<u>\$38.00</u>	per hour	<u>\$1,900.00</u>

18" Culvert Installation at STA 5+45	<u>40</u>	feet at	<u>\$17.00</u>	per foot	<u>\$680.00</u>
Culvert Bands	<u>1</u>	bands at	<u>\$19.00</u>	per band	<u>\$19.00</u>

Total Project 1A: \$27,019.00

Project 1B: Road and Landing Construction

Points: G to H Length: 890' Type: 14' no ditch
 (includes landing at I)

Excavator	<u>15</u>	hrs at	<u>\$125.00</u>	per hour	<u>\$1,875.00</u>
Cat time	<u>15</u>	hrs at	<u>\$125.00</u>	per hour	<u>\$1,875.00</u>
Grader	<u>1</u>	hrs at	<u>\$85.00</u>	per hour	<u>\$85.00</u>
Laborer	<u>15</u>	hrs at	<u>\$38.00</u>	per hour	<u>\$570.00</u>

18" Culvert Installation at STA 0+90	<u>40</u>	feet at	<u>\$17.00</u>	per foot	<u>\$680.00</u>
Culvert Bands	<u>1</u>	bands at	<u>\$19.00</u>	per band	<u>\$19.00</u>

Total Project 1B: \$5,104.00

Move-in

Equipment	hrs/RT	Rate/hr	Lowboy Total
Excavator	6	\$95.00	\$570.00
Cat	6	\$95.00	\$570.00
Drill & Comp	6	\$95.00	\$570.00
Grader	5	\$95.00	\$475.00
Dump Truck	5	\$95.00	\$475.00

Total Move-in: \$2,660.00

Project 1 Total \$34,783.00

Project 2A: Road Improvement

Points: A to B Length: 2015' Type: 16' w/ditch

Grader time	<u>2</u>	hrs at	<u>\$85.00</u>	per hour	<u>\$170.00</u>
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Total Project 2A: \$170.00

Project 2B: Road Improvement

Points: B to C Length: 220' Type: 16' w/ditch

Grader time	<u>1</u>	hrs at	<u>\$85.00</u>	per hour	<u>\$85.00</u>
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Total Project 2B: \$85.00

**SUMMARY OF CONSTRUCTION COST
Forlorn Folley**

Project 2C: Road Improvement

Points: B to F Length: 1265' Type: 16' w/ditch

Grader time	<u>2</u>	hrs at	<u>\$85.00</u>	per hour	<u>\$170.00</u>
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Total Project 2C: \$170.00

Project 2D: Road Improvement

Points: F to G Length: 765' Type: 14' no ditch

Excavator - remove slides & bank slough	<u>2</u>	hrs at	<u>\$125.00</u>	per hour	<u>\$250.00</u>
Cat time	<u>4</u>	hrs at	<u>\$125.00</u>	per hour	<u>\$500.00</u>
Dump Truck - haul to Pts G to H	<u>2</u>	hrs at	<u>\$100.00</u>	per hour	<u>\$200.00</u>
Grader time	<u>1</u>	hrs at	<u>\$85.00</u>	per hour	<u>\$85.00</u>
Laborer	<u>4</u>	hrs at	<u>\$38.00</u>	per hour	<u>\$152.00</u>

Total Project 2D: \$1,187.00

Project 2 Total \$1,612.00

Project 3: Culvert Replacement

Point: J

24" Culvert Installation	<u>30</u>	feet at	<u>\$33.00</u>	per foot	<u>\$990.00</u>
Culvert Bands	<u>1</u>	bands at	<u>\$29.00</u>	per band	<u>\$29.00</u>

1 1/2"-0" rock after installation (2.1 hr RT)	<u>34</u>	yds at	<u>\$20.25</u>	per yd	<u>\$688.50</u>
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Project 3 Total \$1,708.00

Project 4: Road Decommissioning

Points: C to D STA: 0+00 to 6+65

Points: G to H STA: 0+00 to 0+90

Excavator - Remove fill and pipes	<u>10</u>	hrs at	<u>\$125.00</u>	per hour	<u>\$1,250.00</u>
Grader time - w/ scarifier	<u>2</u>	hrs at	<u>\$85.00</u>	per hour	<u>\$170.00</u>

Grass seed	<u>50</u>	lbs at	<u>\$2.45</u>	per lb	<u>\$122.50</u>
Straw bales for mulching over seed	<u>30</u>	bales at	<u>\$9.00</u>	per bale	<u>\$270.00</u>
Laborer	<u>10</u>	hrs at	<u>\$38.00</u>	per hr	<u>\$380.00</u>

Project 4 Total \$3,190.00

Total Project Costs \$41,293.00

Move-in

Equipment	hrs/RT	Rate/hr	Lowboy Total
Excavator	5.5	\$95.00	\$522.50
Grader	5	\$95.00	\$475.00

Total Move-in: \$997.50

TIMBER SALE SUMMARY

Forlorn Folley

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 total sale area of Areas 1 – IV is 96 net acres. Area V is a road right of way of less than 1 acre. Buffer 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 ARCMAP 10 Geographic Information System program.
5. **Volume by Species, Fund, and County:** See attached table.
6. **Grade by Percent:**

Areas I - IV:

Species	3 Peeler	SM	2 Saw	Big 3 Saw (12”+)	3 Saw	4 Saw
Douglas-fir	----	4 %	60 %	6 %	22 %	8 %
Western Red Cedar	----	----	----	----	----	----
Western Hemlock	----	----	----	----	100 %	----
Grand Fir	----	----	----	----	----	----

7. **Cruise:** The timber sale was cruised in 2008 by ODF foresters. Areas 1 - IV were variable plot cruised using the Big BAF cruise design, which consisted of 66 nested plots total. Each plot consists of both a full 40 BAF count plot and a full 360 BAF measure plot. The 40 BAF plots were used to tally the number of trees by species to determine the stand basal area. The 40 BAF plot was then used to select minor species to cruise and the 360 BAF plots to select Douglas-fir trees to cruise. Selected trees were cruised for diameter at breast height, height, grade and defect. Thirty-nine (39) Douglas-fir Big BAF trees were cruised for diameter, height, grade and defect throughout the timber sale areas. The cruise was analyzed using the SuperACE cruising program. Area V road right-of-way was not cruised and contains submerchantable conifer not sold to the Purchaser.

A. Cruise Summary Data:

Areas I - IV:

Diameter	Top Diameter	Form Point	Form Factor	CV %	SE %
DBH	Total Height	Conifer: 16' Hardwood: 16'	Estimated or measured on all trees	52.8	6.35

B. Stand Summary:

Areas I - IV:

Species	D4H	Trees per Acre	Basal Area (ft ² /ac)	MBF per acre
Douglas-fir	16	154	214	31.6
Western Hemlock	21	4	10	1.3

C. Green Tree Retention Summary: Most green tree retention was posted outside of the timber sale, except scattered trees which were removed from the cruise. These scattered trees are marked "W" with red paint.

8. Timber Description: The timber sale areas have four stands that are moderately stocked with approximately 60 to 100 year old second growth Douglas-fir, of good to average quality, with red alder, bigleaf maple, western hemlock, western redcedar, grand-fir and incense cedar in the understory. Conifers range from 83 to 178 feet tall while hardwoods are about 45 feet tall.

9. Topography: In Areas I - IV, slopes range from 5%-80%. The majority of the timber sale area is gentle benches with a few steep areas.

10. Logging Method: The timber sale will be mostly cable logged uphill with single-end suspension over the unit; full suspension will be required over designated streams and RMAs. A motorized carriage may be required to obtain the necessary suspension. Tail trees may need to be placed for yarding the sale area as approved in the operations plan. Portions of Area I may be ground yarded during the dry season on portions of less than 35% slope. If tailhold or guyline anchors are planned to be located on adjacent BLM property, they shall first be approved by BLM.

11. Access:

From Coos Bay, proceed north on Highway 101 to Reedsport, turn onto Highway 38 and proceed eastbound for 40 miles to Tom Folley Creek Road, then proceed 6 miles to Project Point J. Mile post 40 is just east of the highway tunnel.

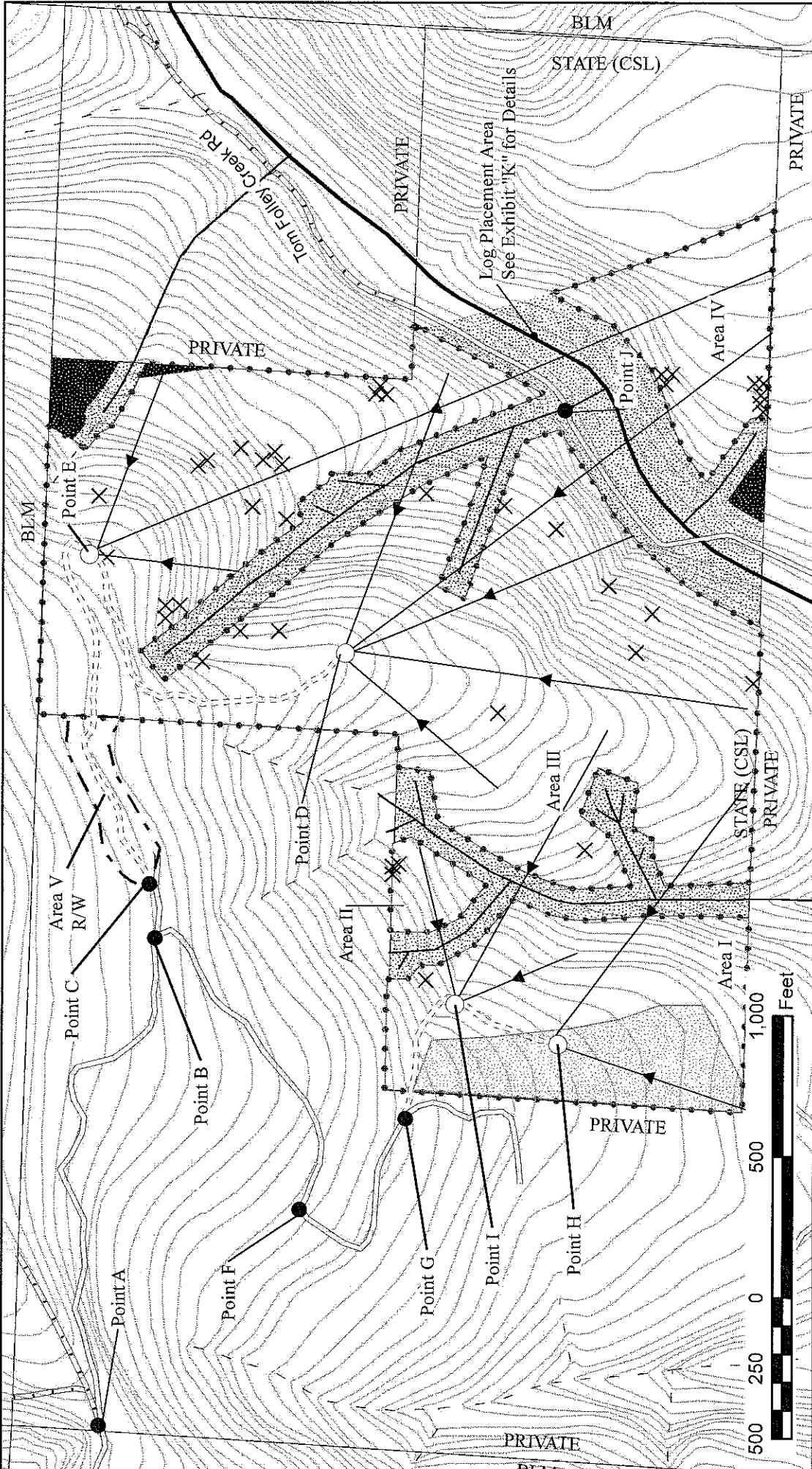
12. Projects:

Project No. 1: Road and Landing Construction

Project No. 2: Road Improvement

Project No. 3: Culvert Replacement

Project No. 4: Road Decommissioning



LOGGING PLAN
 OF TIMBER CONTRACT NO.
 FORLORN FOLLEY
 341-12-30

PORTIONS OF SECTION 36
 T21S, R7W, W.M.
 DOUGLAS COUNTY, OREGON

APPROX. SCALE: 1" = 500'

APPROXIMATE ACREAGE

AREA I	18
AREA II	2
AREA III	68
AREA IV	8
AREA V (R/W)	<1
TOTAL	96

Streams

- Type F
- Type N Perennial
- Unclassified
- Type N Seasonal
- Stream Buffer
- Green Tree Retention Group
- Green Tree Retention Single

Roads

- Private (Seneca) Road
- State Highway
- Federal (BLM) Road
- New Construction
- Purchaser Maintained

Posted Sale Boundary

- Landing
- Project Point
- Yarding Corridors
- Ground Operations
- Right of Way
- Contours: 20 Foot
- Department of State Lands Ownership

This product is for informational use and may not have been prepared for, or suitable for legal, engineering, or surveying purposes.