



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Cost Summary Li'l No Name Sale 341-03-16

District: Tillamook

Date: 5/21/02

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$352,590.28	\$26,642.04	\$379,232.32
		Project Work	(\$97,065.00)
		Advertised Value	\$282,167.32



**Timber Sale Appraisal
Timber Description
Li'l No Name
Sale 341-03-16**

"STEWARDSHIP IN FORESTRY"

District: Tillamook

Location: Sections 26 & 27, T1N, R8W, W.M.,
Tillamook County, Oregon

Date: 5/21/02

Stand Stocking: 40%

Species	Avg. DBH	Amortized%	Recovery%
Douglas - Fir	13	0	95
Alder (Red)	13	0	90

Volume by Grade	Douglas - Fir	Alder (Red)	Total
2S	549	0	549
3S	549	0	549
4S	274	0	274
Camprun	0	142	142
Total	1,372	142	1,514

Comments: Pond Values Used: 1st Quarter 2002 + Local Pond Values

Other costs (profit and risk already included): Total = \$33,196

Additional yarder&loader move-in - \$1,300

Non-Project roads: machine work: $\$175 \times 58.55/\text{sta} = \$10,246$

Pit-run rock: $2000\text{cy} @ \$10.50/\text{cy} = \$21,000$

move-in cost: \$650

Other(P&R to be applied): Brand & paint $\$2/\text{MBF} \times 1,514\text{MBF} = \$3,028$

Road Maintenance: Total = \$4.79

Grading - $\$500/\text{mile} \times 5 \text{ miles} \times 2 \text{ times} = \$5000/1514\text{mbf} = \$3.30$

Surfacing - $50\text{cubic yds} @ \$6/\text{cy} \times 1.5\text{MMBF} \times 5 \text{ miles}/1514\text{mbf} = \1.49



Timber Sale Appraisal

Logging Conditions

Li'l No Name

Sale 341-03-16

"STEWARDSHIP IN FORESTRY"

Combination#: 1	Douglas - Fir	50.00%	
	Alder (Red)	60.00%	
Yarding Distance:	Medium (800 ft)		Downhill Yarding No
Logging System:	Cable: Medium Tower >40 - <70		Process: Manual Delimiting
Tree Size:	Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF		
Loads/Day:	6		Bd. Ft./Load: 3,500
Cost/MBF:	\$157.93		
Machines:			
	Log Loader (A)		
	Tower Yarder (Medium)		
Combination#: 2	Douglas - Fir	50.00%	
	Alder (Red)	40.00%	
Yarding Distance:	Short (400 ft)		Downhill Yarding Yes
Logging System:	Track Skidder		Process: Manual Falling/Delimiting
Tree Size:	Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF		
Loads/Day:	8		Bd. Ft./Load: 3,500
Cost/MBF:	\$116.62		
Machines:			
	Log Loader (B)		
	Track Skidder		



Timber Sale Appraisal

Logging Costs

Li'l No Name

Sale 341-03-16

"STEWARDSHIP IN FORESTRY"

Date: 5/21/02

Operating Seasons: 2.0

Profit & Risk: 15%

Project Costs: \$97,065

Other Costs (P/R): \$3,028

Slash Disposal: \$0

Other Costs: \$33,196

Road Maintenance: \$4.79

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

Hauling Costs

Species	\$/MBF	Trips/Day	MBF/Load
Douglas - Fir	\$0.00	3.0	3.5
Alder (Red)	\$0.00	3.0	2.5

Local Pond Values

Date	Species	Grade	Value
4/26/02	Alder (Red)	Camprun	\$450.00



Timber Sale Appraisal Logging Costs Breakdown Li'l No Name Sale 341-03-16

"STEWARDSHIP IN FORESTRY"

Costs	Douglas - Fir	Alder (Red)
Logging	137.28	141.41
Road Maintenance	5.04	5.32
Fire Protection	3.58	3.58
Hauling	46.11	56.78
Other (P/R appl.)	2.00	2.00
Profit & Risk	29.10	31.36
Slash Disposal	0.00	0.00
Scaling	2.00	0.00
Other	21.93	21.93
Total	247.04	262.38

Amortization	0.00	0.00
Pond Value	504.03	450.00
Stumpage	256.99	187.62
Amortized	0.00	0.00



Timber Sale Appraisal Summary Li'l No Name Sale 341-03-16

"STEWARDSHIP IN FORESTRY"

Amortized

	Douglas - Fir	Alder (Red)
MBF	0.00	0.00
Value	0.00	0.00
Total	0.00	0.00

Unamortized

	Douglas - Fir	Alder (Red)
MBF	1,372.00	142.00
Value	256.99	187.62
Total	352,590.28	26,642.04

Gross Timber Sale Value

Recovery \$379,232.32

Prepared by: Steve Langer

Date: 5/21/02

District: Tillamook

Phone: (503) 842-2545

PROJECT SUMMARY SHEET

Sale: LI'L NO NAME

CONSTRUCTION

SUBTOTAL CONSTRUCTION \$0.00

IMPROVEMENT

Point A to B 52.80 stations = \$54,276.51

SUBTOTAL IMPROVEMENT \$54,276.51

SPECIAL PROJECTS

Construct Waste Area 1 \$260.00
Brush 38.8 Miles of Road \$40,910.00

SUBTOTAL SPECIAL PROJECTS \$41,170.00

MOVE IN \$1,618.73

GRAND TOTAL: \$97,065.24

SUMMARY OF CONSTRUCTION COST

SALE:	LIL' NO NAME				ROAD:	A to B			
CONSTRUCTION -			+00	stations				52+80	stations
			0.00	miles				1.00	miles
CLEARING AND GRUBBING -									
Scattering	+00	to	52+80	1.94	acres @	\$815.00	per acre =	\$1,580.81	
Endhaul				0.00	acres @	\$1,500.00	per acre =	\$0.00	
								TOTAL CLEARING AND GRUBBING	\$1,580.81
EXCAVATION -									
Road Earthwork	+00	to	52+80	52.8	sta. @	\$65.00	per sta. =	\$3,432.00	
Sidecast pullback	1+95	to	3+25	433	cys. @	\$1.40	per c.y. =	\$606.67	
Sidecast pullback	6+50	to	7+00	67	cys. @	\$1.40	per c.y. =	\$93.33	
Sidecast pullback	18+50	to	19+15	173	cys. @	\$1.40	per c.y. =	\$242.67	
Widening	1+85	to	4+20	278	cys. @	\$1.40	per c.y. =	\$388.73	
Widening	49+05	to	50+10	149	cys. @	\$1.40	per c.y. =	\$209.07	
Spread and Compact				1100	cys. @	\$0.35	per c.y. =	\$385.12	
								TOTAL EXCAVATION	\$5,357.58
END-HAULING -									
<u>To Waste Area #1</u>									
Sidecast pullback	1+95	to	3+25	433	cys. @	\$0.79	per c.y. =	\$340.85	
Sidecast pullback	6+50	to	7+00	67	cys. @	\$0.96	per c.y. =	\$63.78	
Widening	1+65	to	4+20	278	cys. @	\$0.80	per c.y. =	\$222.10	
<u>To Waste Area #2</u>									
Sidecast pullback	18+50	to	19+15	173	cys. @	\$0.57	per c.y. =	\$98.66	
<u>To Waste Area #3</u>									
Widening	49+05	to	50+10	149	cys. @	\$0.64	per c.y. =	\$96.01	
								TOTAL END-HAUL	\$821.40
CULVERTS-									
<u>Culverts</u>									
36	LF of 18	\$531.00	(MATERIALS & INSTALLATION)	236	LF of 36"	\$4,472.00	(MATERIALS ONLY)		
90	LF of 30	\$1,393.50	(MATERIALS ONLY)	0	LF of 42"	\$0.00			
		\$1,924.50				\$4,472.00			
<u>Half Rounds</u>									
0	LF of 21	\$0.00		0	LF of 42"	\$0.00			
0	LF of 36	\$0.00		0	LF of 48"	\$0.00			
		\$0.00				\$0.00			
<u>Culvert Stakes</u>									
0	stakes	\$0.00							
<u>Culvert Markers</u>									
				7	Markers (INSTALLED)	\$42.00			
								TOTAL CULVERTS	\$6,438.50
SURFACING-									
Sta. 0+00 to 52+80	2,720	cy. of	PITRUN	@	\$10.50	per c.y. =	\$28,551.70		
								TOTAL SURFACING	\$28,551.70
SPECIAL PROJECTS									
Construct Waste Areas 2 and 3	4.00	Hours @	\$130.00	per Hour =	\$520.00				
Grade and Shape Road	52.80	Sta's. @	\$9.75	per Sta. =	\$514.80				
Roll Subgrade Prior To Rocking	52.80	Sta's. @	\$11.00	per Sta. =	\$580.80				
Remove Six Log Culverts & install all 30" and 36" Culvert	56.00	Hours @	\$130.00	per Hour =	\$7,280.00				
Remove Log Crib Wall	0.50	Hours @	\$130.00	per Hour =	\$65.00				
Erosion Control: Sedimentation	14	Bio Filter Bags @	\$4.60	per Bag =	\$64.40				
Erosion Control: Grass Seed and Fertilize	3.76	Acres @	\$180.00	per Acre =	\$677.46				
Erosion Control: Mulching	1.82	Acres @	\$1,000.00	per Acre =	\$1,824.27				
								TOTAL SPECIAL PROJECTS	\$11,526.72
								GRAND TOTAL:	\$54,276.51

ROCK PIT DEVELOPMENT AND GENERATION COST SUMMARY

Pit:	<u>Pit-Run</u>	Location:	<u>NE 1/4, Sec. 23, T1N, R8W, W.M.</u>
Sale:	<u>LIL' NO NAME</u>	Road:	<u>2720 c.y.</u>
Swell:	<u>1.40</u>	Stockpile:	<u>c.y.</u>
Shrinkage:	<u>1.16</u>	Total Truck Loads:	<u>2720 c.y.</u>
Drill Pct.:	<u>40%</u>	In Place Total:	<u>1943 c.y.</u>

Pit Development & Cleanup including Clearing and grubbing of Waste Area, Haul overburden to Waste Area, spread and compact. \$4,346.41

Drill & Shoot:	<u>\$2.10</u> /cu.yd.	x	<u>777</u> cu.yds.	=	<u>\$1,632.15</u>
Rip Rock	<u>\$1.75</u> /cu.yd.	x	<u>1166</u> cu.yds.	=	<u>\$2,040.19</u>
Push Rock	<u>\$0.60</u> /cu.yd.	x	<u>2720</u> cu.yds.	=	<u>\$1,632.15</u>
Load Dump Truck:	<u>\$0.60</u> /cu.yd.	x	<u>2720</u> cu.yds.	=	<u>\$1,632.15</u>
			Subtotal		<u>\$11,283.05</u>

Move In Drill and Compressor	<u>\$160.30</u>
Move in D-8 (within area)	<u>\$40.02</u>
Move in Excavator (within area)	<u>\$118.72</u>
Subtotal	<u>\$319.04</u>

Base Cost= \$4.27 Per Cu. Yd. TOTAL PRODUCTION COSTS \$11,602.09

Road Segment	Haul Cost /cu.yd.	Proc Cost /cu.yd.	Base Cst. /cu.yd.	Cost /cu.yd.	Number Cu. Yds	ROCK COST
A to B	<u>\$5.33</u>	<u>\$0.90</u>	<u>\$4.27</u>	<u>\$10.50</u>	<u>2720</u>	<u>\$28,551.70</u>
						<u>\$0.00</u>
						<u>\$0.00</u>
				Total C.Y.	<u>2720</u>	Sub Total <u>\$28,551.70</u>

TOTAL ROCKING COSTS: \$28,551.70

MOVE-IN CALCULATIONS

Sale: LIL' NO NAME

LOWBOY HAUL (One Way)		
DISTANCE	ROADWAY	AVE SPEED (MPH)
16.0	Highway	45
1.7	Main Lines (Off Road)	15
1.8	Pulling Steep Grades	2

No.	EQUIPMENT DESCRIPTION	Move in Cost	Pilot Cars	Within Area Move (\$/mile)	Begin Mileage	End Mileage	Total Miles	Within Area Cost	Total Cost
0	Drill & Compressor	\$0.00		\$46.00	0	0.00	0.00	\$0.00	\$0.00
1	Brush Cutter	\$124.42		\$4.00	0	23.00	23.00	\$92.00	\$216.42
0	Graders	\$0.00		\$3.65	0	0.00	0.00	\$0.00	\$0.00
0	Loader (Small)	\$0.00		\$3.55	0	0.00	0.00	\$0.00	\$0.00
0	Loader (Med. & Large)	\$0.00		\$9.00	0	0.00	0.00	\$0.00	\$0.00
1	Rollers & Compactors	\$124.42		\$5.00	0	4.00	4.00	\$20.00	\$144.42
0	Excavators (Small)	\$0.00		\$22.00	0	0.00	0.00	\$0.00	\$0.00
1	Excavators (Med.)	\$218.27		\$35.50	0	4.00	4.00	\$142.00	\$360.27
1	Excavators (Large)	\$290.79	2	\$44.80	0	4.00	4.00	\$179.20	\$469.99
0	Rubber Tired Backhoes/Skidlers	\$0.00		\$3.00	0	0.00	0.00	\$0.00	\$0.00
0	Tractors (D6)	\$0.00		\$7.10	0	0.00	0.00	\$0.00	\$0.00
0	Tractors (D7)	\$0.00		\$11.30	0	0.00	0.00	\$0.00	\$0.00
1	Tractor (D8)	\$267.67	2	\$15.10	0	4.00	4.00	\$60.40	\$328.07
3	Dump Truck (10 cy +)	\$99.56		\$2.85	0	0.00	0.00	\$0.00	\$99.56
0	Dump Truck (Off Hiway)	\$0.00		\$4.75	0	0.00	0.00	\$0.00	\$0.00
0	Water Truck (1500 Gal)	\$0.00		\$2.85	0	0.00	0.00	\$0.00	\$0.00
0	Water Truck (2500 Gal)	\$0.00		\$2.85	0	0.00	0.00	\$0.00	\$0.00
0	Jaw	\$1,066.00							\$0.00
0	2-Stage Crusher	\$1,597.00							\$0.00
0	3-Stage Crusher	\$2,489.00							\$0.00

TOTAL MOVE-IN COSTS: \$1,618.73

Brushing Cost

Sale: Lil No Name *Light = \$800/MI Medium=\$1000/MI Heavy= \$1300/MI*

<i>Road System:</i>	<i>Name of Road</i>	<i>Miles of Road</i>	<i>Cost Per Mile</i>	<i>Cost Per Segment</i>
Kilchis	Kilchis Mainline	14.6	\$1,000.00	\$14,600.00
Kilchis	Smith Wright	2.5	\$1,300.00	\$3,250.00
Kilchis	Spruce Creek	1.5	\$1,000.00	\$1,500.00
Kilchis	Clinton Creek	2	\$1,300.00	\$2,600.00
Kilchis	Homestead Road	1.1	\$1,000.00	\$1,100.00
Kilchis	Sam Downs	2.5	\$800.00	\$2,000.00
Kilchis	Sam Downs	6.3	\$1,000.00	\$6,300.00
Kilchis	Kilchis L.O. Road	1.5	\$800.00	\$1,200.00
Kilchis	Lookdown Alder Road	0.7	\$1,000.00	\$700.00
Kilchis	Lookout Alder Road	0.9	\$1,000.00	\$900.00
Kilchis	Lookout Alder Road	1.2	\$1,300.00	\$1,560.00
Kilchis	Shirley Creek/Stanley Peak	2.25	\$1,300.00	\$2,925.00
Kilchis	Clear Creek	1.75	\$1,300.00	\$2,275.00

Total Miles of Road: 38.80

Total Brushing Cost: \$40,910.00



OREGON DEPARTMENT OF FORESTRY
CRUISE REPORT

Li'l No Name

"STEWARDSHIP IN FORESTRY"

1. **Type of Sale:** Clearcut, Recovery
2. **Legal Description:** Sections 26 and 27, T1N, R8W, W.M. Tillamook County, Oregon.
3. **Sale Acreage:** The sale boundaries were plotted on a digital orthophotograph and the acreage was calculated with GIS.

ACRES			
Area	Sale	Total	Net
1	49	50	49
2	16	21	16
3	47	55	47
4	37	37	37
Total	149	163	149

Sale Acres: Area within the Timber Sale Boundary signs.

Total Acres: For accomplishment reporting

Clearcut: 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.

Net Acres: Used for calculating the advertised volume.

Clearcut: Sale acres; less green tree retention, roads, and riparian areas classified as Special Stewardship in LMCS inside the sale boundary.

4. **Cruising Procedures:**
 - A. **Cruise Method:** A total of 112 variable radius full point plots were established on the sale areas. Cruise lines were 400 feet apart with plots 150 feet apart. All trees and snags were counted by diameter class. Alder was measured on all plots while Douglas-fir were measured and graded on every fourth plot. Diameter was taken at 4.5 feet and was measured to the nearest inch.
 - B. **Plot size:** A 20 BAF was used, point of tree observation was 4.5 feet.
 - C. **Grading System:** Trees were graded during the cruise following the Columbia River Official Log Scaling and Grading Bureau rules.
5. **Computation Procedure:** The volume and grade for alder and V-BAR and grade for Douglas-fir were derived from tree measurements entered into SuperAce. V-BAR was then applied to the

Douglas-fir basal area to determine volume. See attached volume summary. The coefficient of variation for alder was 148.7% and the standard error was 14.1% for net board foot measure.

6. **Defect and Breakage:** A 5% reduction for defect and breakage was applied to the volume.
7. **Timber Description:** The sale area is composed of 40 year old Douglas-fir with scattered alder. The sale area burned in the 1933 and 1939 Tillamook fires. The portion of the sale areas west of Little North Fork Road was aerial seeded in 1956-1957. The portion east of Little North Fork Road was planted in 1955-1956 and was thinned as part of timber sale in 2000. The Douglas-fir is moderately to severely infected with Swiss needle cast. The majority of the alder was treated with herbicides about 35 years ago to reduce competition with Douglas-fir. The surviving alder trees have poorly formed crowns and short boles.
8. **Cruiser Names/Dates:** Bob Shaver, Steve Langer, Jason Teller; September 2001.
9. **Revenue Distribution:**
100% FDF
Tax Code: 56
Deed Numbers: 162
92% Rehabilitation Obligated
7. **Attachments:**
Volume Summary
Logging Plan



Lil' No Name

Volume Summary

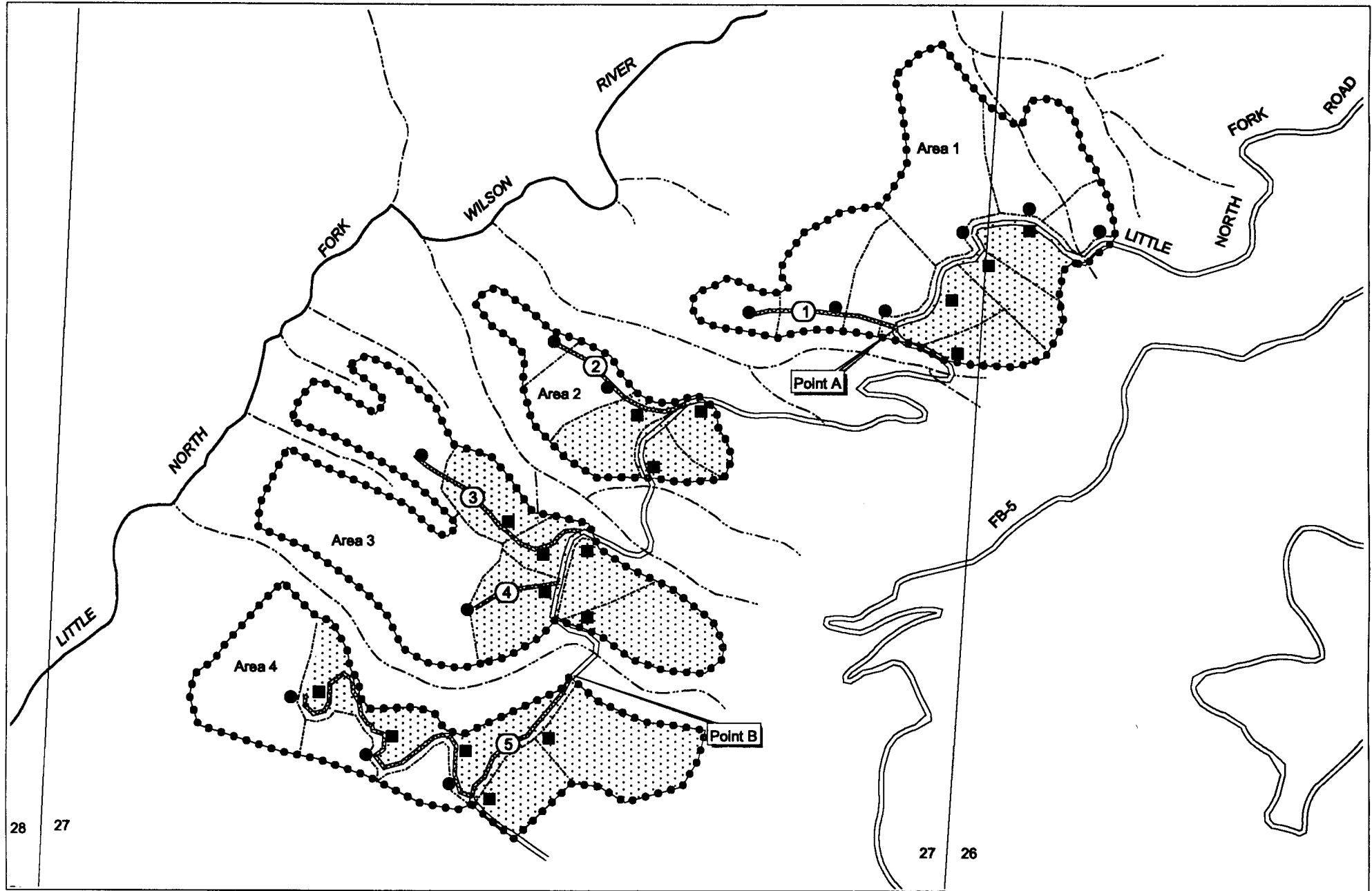
Area I							
49 acres							
SPECIES	QMD	Basal Area per acre	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	12"	102	97	9.9	485	5%	461
Alder	13"			0.8	39	5%	37
TOTAL				10.7	524		498

Area II							
16 acres							
SPECIES	QMD	Basal Area per acre	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	14"	146	106	15.5	248	5%	236
Alder	14"			1.1	18	5%	17
TOTAL				16.6	266		253

Area III							
47 acres							
SPECIES	QMD	Basal Area per acre	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	14"	102	77	7.9	371	5%	352
Alder	14"			1.1	52	5%	49
TOTAL				9.0	423		401

Area IV							
37 acres							
SPECIES	QMD	Basal Area per acre	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	14"	108	85	9.2	340	5%	323
Alder	13"			1.1	41	5%	39
TOTAL				10.3	381		362

TOTAL SALE VOLUME				149 Acres
SPECIES	QMD	MBF	Net Vol. (MBF)	
Douglas-fi	13"	1444	1372	
Alder	13"	150	142	
TOTAL		1594	1514	



- | | | | | | | | |
|---|-----------------|---|---------------------------|-------|------------------|-----|------------------|
| ⌘ | Rock source | □ | Cable yarding | --- | Setting boundary | == | Unsurfaced road |
| Ⓢ | Stock pile | ▨ | Ground yarding | --- | Area boundary | == | Surfaced road |
| Ⓜ | Waste area | ▨ | Green tree retention area | ●-●-● | Sale boundary | == | State highway |
| ● | Cable landing | ■ | Buffer zone | --- | Type-F stream | == | County road |
| ■ | Tractor landing | | | --- | Type-N stream | --- | Non-project road |
| | | | | --- | | --- | Swing road |

LOGGING PLAN
 Timber sale contract 341-03-16
 Li'l No Name
 Sections 26 and 27, T1N, R8W, W.M.
 Tillamook County, Oregon

1000 0 1000 Feet
 1:9000

Area	Acres
1	49
2	16
3	47
4	37
Total	149

OREGON DEPARTMENT OF FORESTRY
WRITTEN PLAN

SALE NAME: **Li'l No Name**

LOCATION: Portions of Sections 26 and 27, T1N, R8W, W.M., Tillamook
County, Oregon.

PROTECTED RESOURCE: Little North Fork Wilson River, Large Type F stream. **Riparian Management Area:**

The area measured 100 feet horizontal distance from the high water mark on each side of Little North Fork Wilson River consisting of a largeType F stream.

Protection Measures:

Yarding Systems, Layout, and Stream Protection

When yarding with cables hanging within or across the streams, cables will be pulled out of the Riparian Management Area prior to rigging the next yarding road.

No High Risk sites were identified on the sale areas. If active landslides and slumps; slopes steeper than 80%; headwalls or draws steeper than 70% are found that constitute a High Risk Site the following practices will apply.

ACTIVITY: Cable yarding across or adjacent to High Risk Sites.

PROTECTION MEASURES:

YARDING:

- Logs will have at least one end suspended when yarding through high risk sites.
- Soil gouging will be limited to a depth of 1 foot (measured vertically) when yarding through high risk sites.

PREPARED BY: Steve Langer, Forester
South Unit
April 30, 2002