



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Cost Summary Lower Roller Road Sale 341-04-29

District: Tillamook

Date: 6/10/03

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$143,074.03	\$0.00	\$143,074.03
		Project Work	(\$57,088.00)
		Advertised Value	\$85,986.03



Timber Sale Appraisal Timber Description Lower Roller Road Sale 341-04-29

"STEWARDSHIP IN FORESTRY"

District: Tillamook

Location: Portions of sections 15,16,21,22, T1N, R9W, and section 3, T1S, R9W W.M. Tillamook, Oregon

Date: 6/10/03

Stand Stocking: 20%

Species	Avg. DBH	Amortized%	Recovery%
Douglas - Fir	13	0	95

Volume by Grade	Douglas - Fir	Total
3S	557	557
4S	26	26
Total	583	583

Comments: Pond Values Used: 1st Quarter 2003.

Hardwood Pond Value of \$515 obtained locally.
 $\$515 - \$277.36 = \$237.64$



Timber Sale Appraisal Logging Conditions Lower Roller Road Sale 341-04-29

"STEWARDSHIP IN FORESTRY"

Combination#: 1	Douglas - Fir	100.00%
Yarding Distance:	Medium (800 ft)	Downhill Yarding: No
Logging System:	Cable: Small Tower <=40	Process: Manual Delimiting
Tree Size:	Small / Thinning 9in (70 Bft/tree), 20+	logs/MBF
Loads/Day:	5	Bd. Ft./Load: 3,300
Cost/MBF:	\$156.25	
Machines:		
	Log Loader (A)	
	Tower Yarder (Small)	



Timber Sale Appraisal Logging Costs Lower Roller Road Sale 341-04-29

"STEWARDSHIP IN FORESTRY"

Date: 6/10/03

Operating Seasons: 0.5

Profit & Risk: 15%

Project Costs: \$57,088

Other Costs (P/R): \$1,166

Slash Disposal: \$0

Other Costs: \$2,715

Road Maintenance: \$5.38

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

Hauling Costs

Species	S/MBF	Trips/Day	MBF/Load
Douglas - Fir	\$0.00	2.0	3.3

Local Pond Values

Date	Species	Grade	Value
6/10/03	Alder (Red)	Camprun	\$515.00



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Logging Costs Breakdown Lower Roller Road Sale 341-04-29

Costs	Douglas - Fir
Logging	156.25
Road Maintenance	5.66
Fire Protection	2.32
Hauling	69.16
Other (P/R appl.)	2.00
Profit & Risk	35.31
Slash Disposal	0.00
Scaling	2.00
Other	4.66
Total	277.36

Amortization	0.00
Pond Value	522.77
Stumpage	245.41
Amortized	0.00



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Summary Lower Roller Road Sale 341-04-29

Amortized

	Douglas - Fir
MBF	0.00
Value	0.00
Total	0.00

Unamortized

	Douglas - Fir
MBF	583.00
Value	245.41
Total	143,074.03

Gross Timber Sale Value

Recovery \$143,074.03

Prepared by: Kirk Ausland

Date: 6/10/03

District: Tillamook

Phone: (541) 842-2545



**Timber Sale Appraisal
Additional Cost Worksheet
Lower Roller Rd.
Sale #341-04-029**

"STEWARDSHIP IN FORESTRY"

Cable Yarding Vol. (MBF):	583
Ground Yarding Vol. (MBF):	0
Total Sale Volume:	583

ADDITIONAL COSTS - PROFIT & RISK TO BE ADDED						
Yarding & Loading:	Cost / MBF			Volume (MBF)		
Brand & Paint:	\$ 2	x	583	\$1,166		
Truck Assist/Tractor Swing	\$ -	x	0	\$0		
OTHER COSTS TOTAL						\$1,166
ADDITIONAL COSTS - PROFIT & RISK INCLUDED						
Non-Project Roads (See Logging Plan in Cruise Report)						
Non-Project 1,2,3	9	Stations	x	\$ 90	\$810	
Surfacing (33cy/sta@ \$16.00/yd)	9	Stations	x	\$ 200	\$1,800	
Totals	18					\$2,610
Slash piling and sorting	\$0.18		x	583	\$105	
		Stations	x	cys	x	y
Approach Rock: Pit-Run	0			0	\$0	
Ditch Pulling and End Haul (per CY) ¹				\$ -	\$0	
OHV Trail Clearing (per station)				\$ -	\$0	
Dust Abatement (per season) ²				\$ -	\$0	
OTHER COSTS TOTAL						\$2,715
ROAD MAINTENANCE						
		\$/Cu.Y	MMBF	Miles		\$/MBF
Surfacing ³ : Pit-Run		\$6.00	0.6	0.9		\$0.14
Crushed		\$10.00	0.6	4.7		\$1.21
		\$/Mile	MMBF	Miles		
Grading ⁴		\$ 500	0.6	4.7		\$4.03
TOTAL ROAD MAINTENANCE COST / MBF:						\$5.38

¹Includes cost for excavating, hauling, compaction, and sediment control devices.

²Cost for lignin sulfonate application as dust abatement material.

³Assumes 25 cys rock per MMBF per mile

⁴One grading

SUMMARY OF CONSTRUCTION COST

Sale:	<u>Lower Roller Rd.</u>	Road:	<u>A to B</u>
Construction -	<u>0+00</u> stations <u>0.00</u> miles	Improvement -	<u>50+00</u> stations <u>0.95</u> miles
CLEARING AND GRUBBING -			
Roadside Brushing	0.00 miles @	\$1,000.00 per mile =	\$0.00
Side cast	0.013 acres @	\$540.00 per acre =	\$6.94
Widening	0.036 acres @	\$540.00 per acre =	\$19.21
Scattering	1.840 acres @	\$815.00 per acre =	\$1,499.60
Piling	0.000 acres @	\$905.00 per acre =	\$0.00
Endhaul	0.000 acres @	\$1,500.00 per acre =	\$0.00
		TOTAL CLEARING AND GRUBBING	\$1,525.76
EXCAVATION -			
Road Earthwork	36.40 sta. @	\$65.00 per sta. =	\$2,366.00
Pullback	63 cy. @	\$1.40 per c.y. =	\$88.20
Widening	172 cy. @	\$1.40 per c.y. =	\$240.80
Remove outside berm	0 cy. @	\$1.40 per c.y. =	\$0.00
Slope Stabilization Prep.	0 cy. @	\$1.40 per c.y. =	\$0.00
Full Bench	0 cy. @	\$1.40 per c.y. =	\$0.00
Widening/Full Bench	0 cy. @	\$1.40 per c.y. =	\$0.00
		TOTAL EXCAVATION	\$2,695.00
ENDHAUL -			
Pullback	26+20 to 26+40 18 cy. @	\$0.86 per c.y. =	\$15.39
Pullback	27+80 to 28+00 45 cy. @	\$0.86 per c.y. =	\$38.48
Widening	22+45 to 23+20 100 cy. @	\$0.86 per c.y. =	\$85.52
Widening	37+80 to 38+80 72 cy. @	\$0.86 per c.y. =	\$61.58
Spread & compact	235 cy. @	\$0.20 per c.y. =	\$47.00
		TOTAL ENDHAUL	\$247.98
CULVERTS - MATERIALS & INSTALLATION			
	<u>Culverts</u>		
	142 LF of 18"	\$2,094.50	
	0 LF of 30"	\$0.00	
	0 LF of 42"	\$0.00	
	0 LF of 54"	\$0.00	
	0 LF of 66"	\$0.00	
		<u>\$2,094.50</u>	
	<u>Half Rounds</u>		
	0 LF of 21"	\$0.00	
	0 LF of 36"	\$0.00	
		<u>\$0.00</u>	
	<u>Culvert Stakes & Markers</u>		
	0 stakes	\$0.00	
	5 markers	\$30.00	
		<u>\$30.00</u>	
		TOTAL CULVERTS	\$2,124.50
SURFACING-			
13+60 to 50+00	1,986 cy. of Pit-Run	@ \$6.23 per c.y. =	<u>\$12,372.78</u>
			TOTAL SURFACING
			\$12,372.78
SPECIAL PROJECTS			
Grade and shape road -	36.40 stations @	\$14.20 per station	\$516.88
Roll subgrade w/ vibratory roller prior to rocking -	36.40 stations @	\$11.00 per station	\$400.40
Grass seed and fertilize -	0.20 acres @	\$180.00 per acre	\$36.00
Mulching -	0.20 acres @	\$1,000.00 per acre	\$200.00
		TOTAL SPECIAL PROJECTS	\$1,734.73
		GRAND TOTAL	\$20,700.74

SUMMARY OF CONSTRUCTION COST

Sale:	<u>Lower Roller Rd.</u>				Road: <u>C to D</u>
Construction -	<u>0+00</u> stations <u>0.00</u> miles				Improvement - <u>66+65</u> stations <u>1.26</u> miles
CLEARING AND GRUBBING -					
Roadside Brushing		1.26 miles @	\$1,000.00 per mile =		\$1,260.00
Side cast		0.025 acres @	\$540.00 per acre =		\$13.64
Widening		0.113 acres @	\$540.00 per acre =		\$60.99
			TOTAL CLEARING AND GRUBBING		\$1,334.63
EXCAVATION -					
Fill Repair & culvert intallations		48 hrs. @	\$260.00 per hr. =		\$12,480.00
Pullback		98 cy. @	\$1.40 per c.y. =		\$137.20
Widening		372 cy. @	\$1.40 per c.y. =		\$520.80
Slide Removal		4 hr. @	\$190.00 per hr. =		\$760.00
			TOTAL EXCAVATION		\$13,898.00
ENDHAUL -					
Pullback	63+75 to 64+30	98 cy. @	\$0.94 per c.y. =		\$92.25
Widening	4+55 to 5+75	86 cy. @	\$0.94 per c.y. =		\$80.96
Widening	15+25 to 16+45	86 cy. @	\$0.86 per c.y. =		\$73.55
Widening	63+75 to 65+75	200 cy. @	\$0.86 per c.y. =		\$171.04
Spread & compact		474 cy. @	\$0.30 per c.y. =		\$142.20
			TOTAL ENDHAUL		\$560.00
CULVERTS - MATERIALS & INSTALLATION					
	<u>Culverts</u>				
	28 LF of 18"	\$413.00		38 LF of 24"	\$674.50
	0 LF of 30"	\$0.00		44 LF of 36"	\$809.60
	0 LF of 42"	\$0.00		80 LF of 48"	\$2,376.00
	0 LF of 54"	\$0.00		48 LF 73" x 55"	\$5,144.16
	0 LF of 66"	\$0.00		0 LF of 72"	\$0.00
		<u>\$413.00</u>			<u>\$9,004.26</u>
	<u>Half Rounds</u>				
	0 LF of 21"	\$0.00		10 LF of 30"	\$145.00
	0 LF of 36"	\$0.00		0 LF of 42"	\$0.00
		<u>\$0.00</u>			<u>\$145.00</u>
	<u>Culvert Stakes & Markers</u>				
	2 stakes	\$16.00			
	4 markers	\$24.00			
		<u>\$40.00</u>			
			TOTAL CULVERTS		\$9,602.26
SURFACING-					
Bedding/Backfill	90 cy. of	Crushed	@	\$9.70 per c.y. =	\$873.00
Pit-Run	1,052 cy. of	Pit-Run	@	\$6.31 per c.y. =	\$6,638.12
				TOTAL SURFACING	\$7,511.12
SPECIAL PROJECTS					
Pump					\$150.00
Culvert Bands, bevels & gaskets					\$581.45
Grade and shape road -		40 stations @	\$14.20 per station		\$568.00
Grass seed and fertilize -		0.30 acres @	\$180.00 per acre		\$54.00
Mulching -		0.30 acres @	\$1,000.00 per acre		\$300.00
			TOTAL SPECIAL PROJECTS		\$1,653.45
			GRAND TOTAL		\$34,559.46

ROCK DEVELOPMENT COST SUMMARY

Pit:	<u>Star Creek</u>	Location:	<u>SE, NE, Sec.10, T1N, RW9, W.M.</u>
Sale:	<u>Lower Roller Rd.</u>	Road:	<u>1986 c.y.</u>
Swell:	<u>1.40</u>	Stockpile:	<u>c.y.</u>
Shrinkage:	<u>1.16</u>	Total Truck Loads:	<u>1986 c.y.</u>
Drill Pct.:	<u>0%</u>	In Place Total:	<u>1419 c.y.</u>

Pit Development & Cleanup including Clearing and grubbing of \$130.00

Dig & Load Dump Truck: \$1.50 /cu.yd. x 1986 cu.yds. = \$2,979.00
Subtotal \$3,109.00

Move in Excavator	1	@	\$219.72	=	\$219.72
Move in Trucks	4	@	\$42.34	=	\$169.37
				Subtotal	<u>\$389.09</u>

Base Cost= \$1.76 Per Cu.Yd. **TOTAL PRODUCTION COSTS \$3,498.09**

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	\$3.87	\$0.60	\$1.76	\$6.23	1986	\$12,372.78
				Total C.Y.	1986	Sub Total \$12,372.78

TOTAL ROCKING COSTS \$12,372.78

ROCK DEVELOPMENT COST SUMMARY

Pit:	<u>Stanley Peak</u>	Location:	<u>NW,NE, Sec. 3, T1S, R9W, W.M.</u>
Sale:	<u>Lower Roller Rd.</u>	Road:	<u>1052 c.y.</u>
Swell:	<u>1.00</u>	Stockpile:	<u> c.y.</u>
Shrinkage	<u>1.00</u>	Total Truck Loads:	<u>1052 c.y.</u>
Drill Pct.:	<u>30%</u>	In Place Total:	<u>1052 c.y.</u>

Pit Development & Cleanup including Clearing and grubbing of Waste Area, Haul overburden to Waste Area, spread and compact.	\$561.00
Drill and shoot	\$3.00 /cu.yd. x 316 cu.yds. = \$946.80
Dig Pit -Run	\$1.50 /cu.yd. x 736 cu.yds. = \$1,104.60
Load Dump Truck:	\$0.60 /cu.yd. x 1052 cu.yds. = \$631.20
Subtotal	\$3,243.60

Move in Excavator	1	@	\$219.72	=	\$219.72
Move in Trucks	2	@	\$42.34	=	\$84.69
Subtotal					\$304.40

Base Cost=	<u>\$3.37</u>	Per Cu.Yd.	TOTAL PRODUCTION COSTS	\$3,548.00
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Road Segment	Haul Cost /cu.yd.	Proc Cost /cu.yd.	Base Cst. /cu.yd.	Cost /cu.yd.	Number Cu. Yds	ROCK COST
C to D	2.34	0.60	3.37	6.31	1052	6,638.12
				Total C.Y.	1052	Sub Total 6,638.12

TOTAL ROCKING COSTS 6,638.12

MOVE-IN CALCULATIONS

Sale: Lower Roller Rd.

LOWBOY HAUL (Round Trip)		
DISTANCE	ROADWAY	AVE SPEED (MPH)
5.0	Highway	35
6.0	Main Lines (Off Road)	10
0.0	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
1	Drill & Compressor	\$148.43		\$46.00	0.00	0.00	0	\$0.00	\$148.43
1	Brush Cutter	\$148.43		\$4.00	0.00	0.00	0	\$0.00	\$148.43
1	Graders	\$34.07		\$3.65	0.00	9.00	9	\$32.85	\$66.92
0	Loader (Small)	\$0.00	1	\$3.55	0.00	0.00	0	\$0.00	\$0.00
0	Loader (Med. & Large)	\$0.00	1	\$9.00	0.00	0.00	0	\$0.00	\$0.00
0	Rollers & Compactors	\$0.00		\$5.00	0.00	0.00	0	\$0.00	\$0.00
0	Excavators (Small)	\$0.00		\$22.00	0.00	0.00	0	\$0.00	\$0.00
1	Excavators (Med.)	\$179.10		\$35.50	0.00	9.00	9	\$319.50	\$498.60
0	Excavators (Large)	\$0.00	1	\$44.80	0.00	0.00	0	\$0.00	\$0.00
0	Rubber Tired Backhoes/Skidlers	\$0.00		\$3.00	0.00	0.00	0	\$0.00	\$0.00
0	Tractors (D6)	\$0.00	2	\$7.10	0.00	9.00	9	\$0.00	\$0.00
1	Tractors (D7)	\$204.27	2	\$11.30	0.00	0.00	0	\$0.00	\$204.27
0	Tractor (D8)	\$0.00	2	\$15.10	0.00	0.00	0	\$0.00	\$0.00
4	Dump Truck (10 cy +)	\$169.37		\$2.85	0.00	9.00	9	\$102.60	\$271.97
0	Dump Truck (Off Hiway)	\$0.00	1	\$4.75	0.00	0.00	0	\$0.00	\$0.00
0	Water Truck (1500 Gal)	\$0.00		\$2.85	0.00	0.00	0	\$0.00	\$0.00
0	Water Truck (2500 Gal)	\$0.00		\$2.85	0.00	0.00	0	\$0.00	\$0.00

TOTAL MOVE-IN COSTS:	\$1,338.62
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OREGON DEPARTMENT OF FORESTRY
CRUISE REPORT

LOWER ROLLER ROAD

1. **Type of Sale:** Clearcut-Recovery
2. **Legal Description:** Portions of Sections 15, 16, 21, and 22, T1N, R9W, and portions of Section 3, T1S, R9W, W.M., Tillamook County, Oregon.
3. **Sale Acreage:** The sale boundaries were plotted on an orthophoto and then digitized into ArcView. The sale acreage was then calculated in Arcview.

	Sale acres	Total acres	Net acres
Area 1	34	21	21
Area 2	30	26	26
TOTAL	64	47	47

Sale acres: Area within the Timber Sale Boundary signs.

Total acres: 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. For accomplishment reporting - clearcut (regeneration) harvest.

Net acres: Sale acres less green tree retention, roads, and riparian areas classified as Special Stewardship in LMCS inside the sale boundary, and additional stream buffers. For calculating the advertised volume.

4. **Cruise Procedures:**
 - A) **Cruising Method:** A total of 7 and 10 variable radius full point plots were measured in Area 1 and Area 2 respectively. Cruise lines were established on transects to sample harvestable types within the sale areas. Plots were spaced 150 feet apart. Tree species with diameters at least 8 inches or greater were recorded on all plots. The first two Douglas-fir trees on every plot were graded and measured for merchantable height.
 - B) **Form Point:** 16 feet for conifers.
 - C) **Form Factor:** A form factor was recorded for every grade tree and the average for Douglas-fir was 80.

- D) Plot Size: Full point plots with a basal area factor of 20 was used. The point of conifer tree observation was at 4.5 feet.
- E) Height Standards: To the nearest foot to a top of 6 inches.
- F) Diameter Standards: Diameters were measured at 4.5 feet (DBH) to the nearest inch.
- G) Grading System: Columbia River Official Log Scaling and Grading Bureau Rules were used.
- H) Utilization Standards: A minimum log length of 20 feet was used.
5. **Computation Procedures**: Trees were sampled for merchantable heights to develop a volume basal area ratio (V-BAR). Volumes for these trees were computed using the Atterbury SUPER A.C.E. 98 program. The coefficient of variation and standard error for Areas 1 and 2 were 17.2 and 8.2, and 41.8 and 13.2 respectively for net board feet/acre.
6. **Hidden Defect and Breakage**: A 5% deduction was applied to the volume to account for both the hidden and visible defect as well as breakage.
7. **Timber Description**: The sale areas consist primarily of Douglas-fir planted between 1963-1969 and a small component of natural hemlock. Hardwoods are present predominantly along old skid roads and streams. Understory vegetation is sparse and primarily consists of salmonberry, sword fern, salal and huckleberry. The stands are approximately 40 years old. There are high levels of Swiss needle-cast infection in these stands. Needle retention averages less than 2 years.
8. **Cruiser Name/Dates**: Ausland, Woodward; October 2002.
9. **Revenue Distribution**:
- | | |
|------------------|---------------|
| FDF: | 100% |
| Tax Code: 56 | 12% |
| Tax Code 9-2 | 88% |
| Deed #'s | 162, 161, 168 |
| Rehab. Obligated | 0% |
10. **Appendices**:
 - Volume Summary
 - Logging Plans



**Timber Sale Appraisal
Volume Summary
Lower Roller Rd.
Sale 341-04-029**

WARDSHIP IN FORESTRY

Total Acres

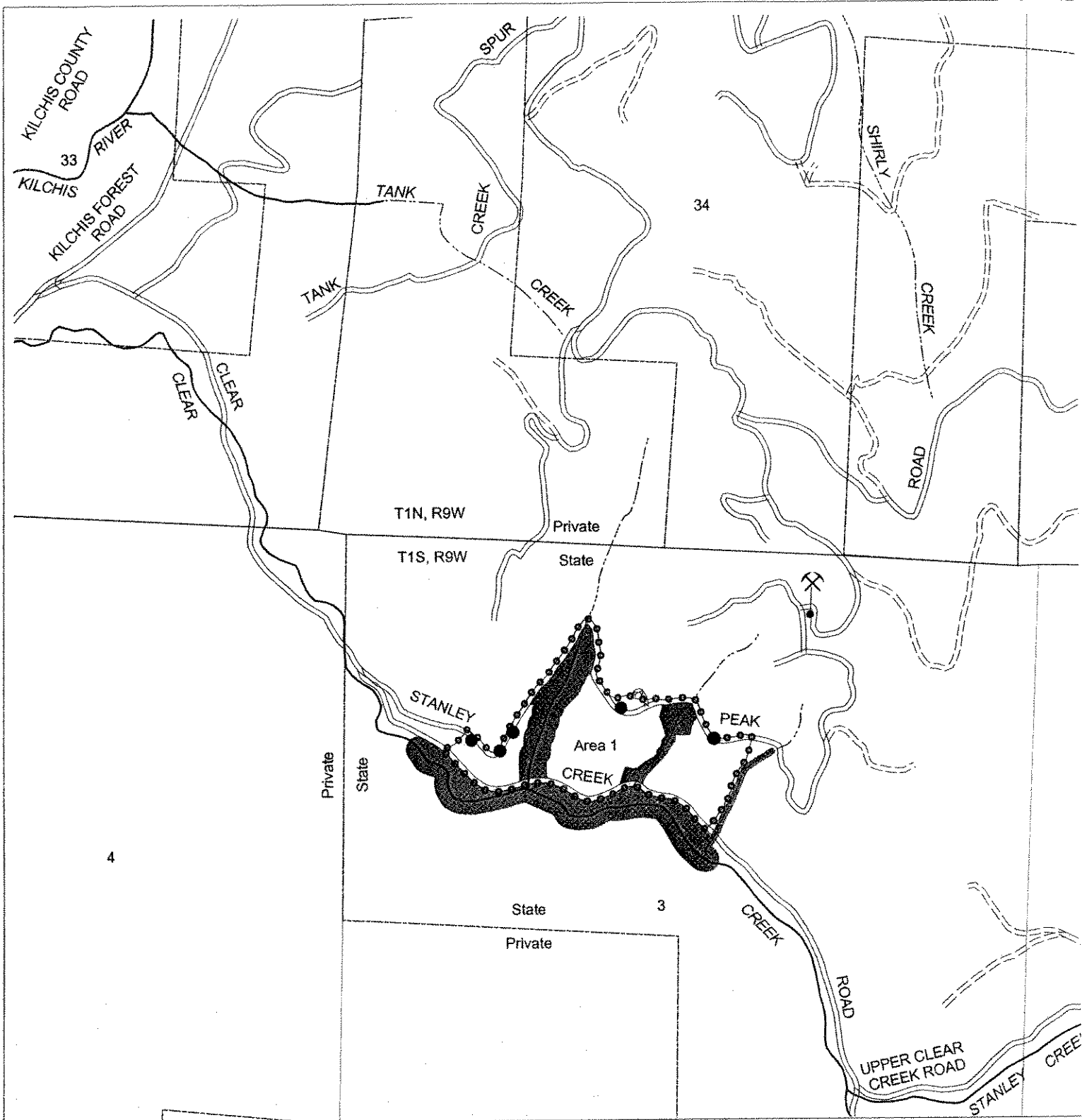
47

12/20/2002

Area 1						
21 acres						
SPECIES	Basal Area Per Ac	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	131	106.0	13.9	292	5%	277
TOTAL	131		13.9	292		277

Area 2						
26 acres						
SPECIES	Basal Area Per Ac	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	132	94.0	12.4	322	5%	306
TOTAL	132		12.4	322		306

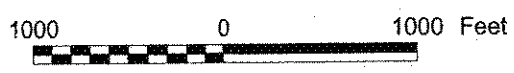
TOTAL SALE VOLUME		
47 acres		
SPECIES	MBF	MBF NET
Douglas-fir	614	583
TOTAL	614	583

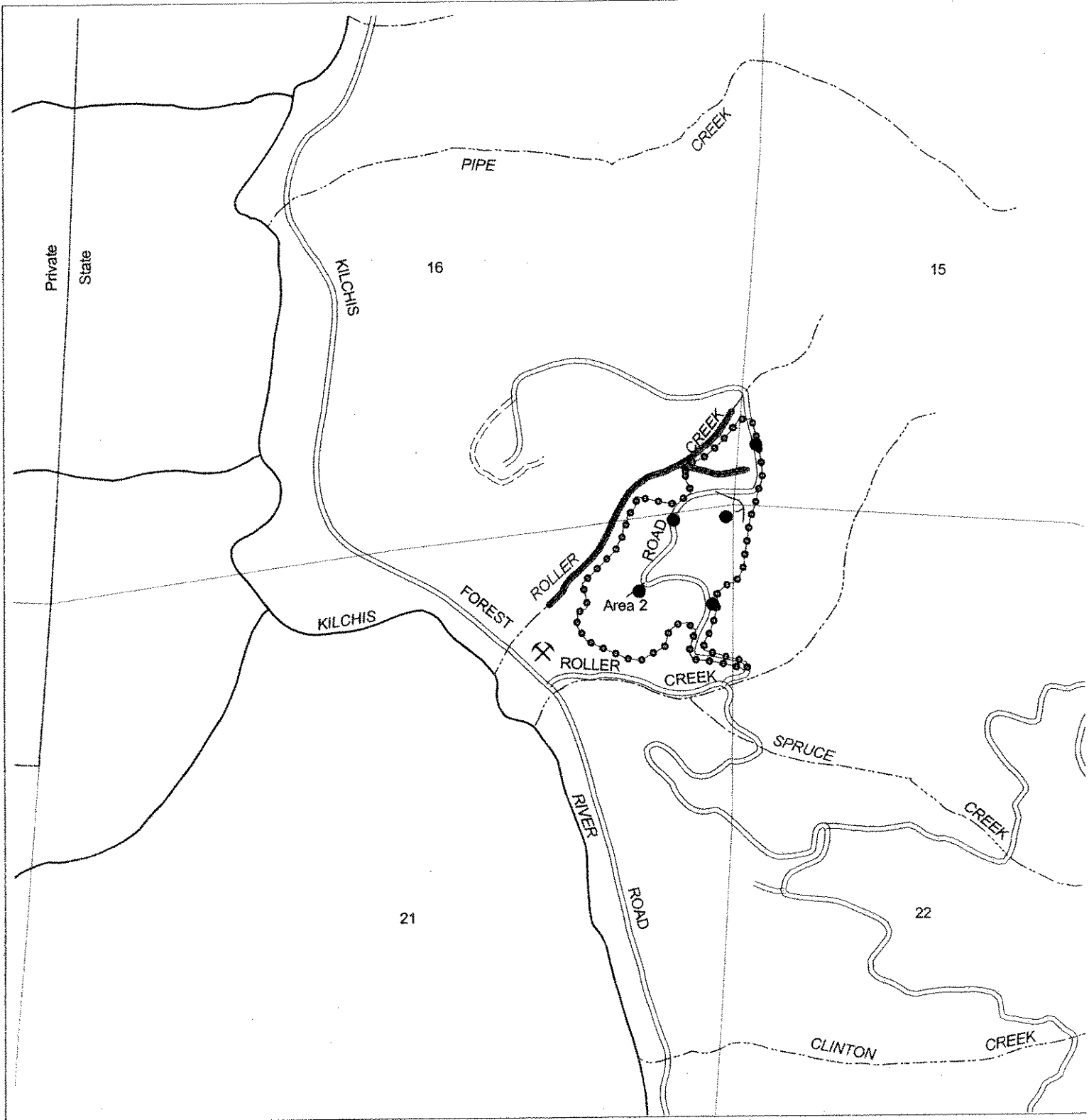


- Tractor landing
- Cable landing
- ▲ Domestic water supply
- ⊗ Block
- Cable yarding
- ▨ Ground yarding
- ▩ Helicopter yarding
- Buffer zone
- Non-required thinning
- ▭ Green tree retention area
- Setting boundary
- Area boundary
- Sale boundary
- Ownership boundary
- Type-F stream
- Type-N stream
- ===== 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. 341-04-029
 Lower Roller Road
 Portions of Section 3, T1S, R9W,
 and Sections 15, 16, 21 and 22,
 T1N, R9W, W. M.
 Tillamook County, Oregon

Area	Type of Operation	Acres	
		Net	Gross
1	Clear Cut	21	34
2	Clear Cut	26	30
Total		47	64

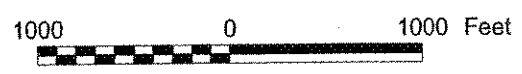




- Tractor landing
- Cable landing
- ▲ Domestic water supply
- ⊗ Block
- Cable yarding
- ▨ Ground yarding
- ▩ Helicopter yarding
- Buffer zone
- Non-required thinning
- ⊂ Green tree retention area
- Setting boundary
- Area boundary
- ⋯ Sale boundary
- Ownership boundary
- Type-F stream
- Type-N stream
- 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. 341-04-029
 Lower Roller Road
 Portions of Section 3, T1S, R9W,
 and Sections 15, 16, 21 and 22,
 T1N, R9W, W. M.
 Tillamook County, Oregon

Area	Type of Operation	Acres	
		Net	Gross
1	Clear Cut	21	34
2	Clear Cut	26	30
Total		47	64



OREGON DEPARTMENT OF FORESTRY
WRITTEN PLAN

SALE NAME: LOWER ROLLER RD.

PROTECTED WATERS: Clear Creek, a large Type F stream and a small Type F unnamed tributary of Clear Creek.

Riparian Management Area:

The area measured 100 feet horizontal distance from the high water mark on each side of a Type F stream.

LOCATIONS: Portions of Section 3, T1S, R9W, W.M., Tillamook County, Oregon.

ACTIVITIES: Logging cables strung across Type F streams for tailhold purposes and instream project work.

PROTECTION MEASURES:

YARDING and FELLING

- Trees within the stream buffer are reserved from cutting, except as approved by ODF to facilitate logging operations. Trees felled within this zone will be incidental and will be left for down wood.
- Adjacent trees will be felled away from or parallel to stream buffer.
- If trees or logs fall or slide into a stream channel they will not be limbed, bucked, or removed without approval from ODF.
- When cable yarding lines are strung across the Type F stream RMA's, they will be at least 150 feet apart and pulled out of the RMA prior to rigging the next yarding road.
- Ground based equipment will not be operated within the RMA unless otherwise approved by ODF.
- Operator will minimize disturbances in the RMA and take all necessary precautions to protect RMA components.
- Instream project work activities will be restricted to the period between August 6 and September 15. O.D.F.W. will be consulted prior to allowing instream activities outside of this period.

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