



Timber Sale Appraisal Cost Summary Clear Creek Ridge Sale 341-05-55

"STEWARDSHIP IN FORESTRY"

District: Tillamook

Date: 4/6/05

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$1,844,376.59	\$81,887.40	\$1,926,263.99
		Project Work	(\$681,220.00)
		Advertised Value	\$1,245,043.99



Timber Sale Appraisal

Timber Description

Clear Creek Ridge

Sale 341-05-55

"STEWARDSHIP IN FORESTRY"

District: Tillamook

Location: Portions of Sections 11, 13, 14, 15, 23 & 24, T1S, R7W, W.M., Tillamook County, Oregon.

Date: 4/6/05

Stand Stocking: 60%

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

Volume by Grade	Douglas - Fir	Alder (Red)	Total
2S	177	33	210
3S	4,957	36	4,993
4S	1,335	222	1,557
Total	6,469	291	6,760

Comments: Pond Values Used: 1st Quarter 2005.

· Cedar Price: Pond Value - Logging Cost = Stumpage Value
\$865/MBF - \$335/MBF = \$530/MBF

Road Maintenance Costs of Prospective Haul Route
(10.3 miles of the North Fork Trask River Road,
5.6 miles of the Clear Creek Ridge Road,
0.9 Miles of the Clear Creek Road &
2.1 miles of Project Spurs): \$10.50/MBF

· Surfacing: 10 CY/MMBF per Mile x 18.9 miles x 6.760MMBF x
\$14.00/CY/6760MBF=\$2.65/MBF
· 7 Gradings-Interim Maintenance: \$250/Grading per Mile x 14.2 miles x
7 Gradings/6760MBF=\$3.68/MBF
· Grading-Final Maintenance=\$500/mi x 14 miles/6760MBF=\$1.04/MBF
· 1 Compaction on 10.3 miles of the North Fork Trask River Road,
4 miles on the Clear Creek Ridge Road and
0.8 miles on the Clear Creek Road: 880 Stations x \$11/Station /6760MBF=\$1.43/MBF
· 1 Compactions on 10 miles of the North Fork Trask River Road and
4 miles on the Clear Creek Road: 740 Stations x \$11/Station/6760MBF=\$1.20/ MBF
· Mobilization: \$3400/6760MBF=\$0.50/MBF

Total (No Profit & Risk): \$201,296.77

Non-project, Dirt Spurs (No Profit & Risk): \$29,105.77

· Construction of Non-project, Dirt Spurs: \$155/Station x 70.54 Stations=\$10,933.70
· Improvement of Non-project, Dirt Spurs:\$75/Station x 34.21 Stations=\$2,565.75
· Approach Rock (Pit-Run) for Non-project Dirt Spurs:50 C.Y./Station x 22 Stations x
\$6.00/C.Y.= \$6,600.00
· Tank Trap Installation (Road Closures): \$50/Tank Trap x 16 Tank Trap=\$800.00
· Water Bar Installation:24 Hours x \$90.00/hr=\$2,160.00
· Mobilization=\$3,680.00
Side Cast Pull Back:19.39 Stations/10 Stations/Day x \$110/Hr. x 8 Hours/Day=\$1,706.32
Walking Excavator During Pull Back=3 Times x 2 Hours/Time x \$110/Hour=\$660.00

Non-project, Dirt Swing Roads (No Profit & Risk): \$1,431.00

· Construction of Non-project, Dirt Swing Roads: \$75/Station x 10.28 Stations=\$771.00
· Mobilization=1 Mobs x 4 Hours/Mob x \$110/hour=\$440.00
· Landing Pull Back=\$220.00

Other (No Profit & Risk): \$170,760.00

· Trask Public Safety Road Fee: \$25/MBF x 6760MBF=\$169,000.00
· OHV Trail Clearing: 11 Stations x \$40/Station= \$440.00
· Slash Piling & Sorting: 550 Acres x 1 machine hour/50 Acres x \$110/hr= \$1,210.00
Clearing "Elk Camp" camp site=1hr x \$110/hr=\$110.00

Other (Profit & Risk Added): \$50,390.00

· Using Swing Road: \$30/MBF x 1,229 MBF=\$36,870.00
· Brand & Paint: \$2.00/MBF x 6760MBF=\$13,520.00



Timber Sale Appraisal

Logging Conditions

Clear Creek Ridge

Sale 341-05-55

"STEWARDSHIP IN FORESTRY"

Combination#: 1	Douglas - Fir	13.28%	
	Alder (Red)	10.16%	
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: 3,374
Cost/MBF:	\$120.98		
Machines:	Log Loader (B) Track Skidder		
Combination#: 2	Douglas - Fir	47.29%	
	Alder (Red)	36.92%	
Yarding Distance:	Short (400 ft)		Downhill Yarding: No
Logging System:	Cable: Medium Tower >40 - <70		Process: Stroke Delimber
Tree Size:	Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF		
Loads/Day:	6		Bd. Ft./Load: 3,374
Cost/MBF:	\$162.15		
Machines:	Log Loader (A) Stroke Delimber (A) Tower Yarder (Medium)		
Combination#: 3	Douglas - Fir	32.24%	
	Alder (Red)	38.74%	
Yarding Distance:	Medium (800 ft)		Downhill Yarding: No
Logging System:	Cable: Medium Tower >40 - <70		Process: Stroke Delimber
Tree Size:	Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF		
Loads/Day:	5		Bd. Ft./Load: 3,374
Cost/MBF:	\$194.58		
Machines:	Log Loader (A) Stroke Delimber (A) Tower Yarder (Medium)		
Combination#: 4	Douglas - Fir	7.19%	
	Alder (Red)	14.18%	

Yarding Distance:	Long (1,500 ft)	Downhill Yarding:	No
Logging System:	Cable: Medium Tower >40 - <70	Process:	Stroke Delimber
Tree Size:	Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF	Bd. Ft./Load:	3,275
Loads/Day:	4		
Cost/MBF:	\$250.58		
Machines:			
	Log Loader (A)		
	Stroke Delimber (A)		
	Tower Yarder (Medium)		



Timber Sale Appraisal

Logging Costs

Clear Creek Ridge

Sale 341-05-55

"STEWARDSHIP IN FORESTRY"

Date: 4/6/05

Operating Seasons: 4.0

Profit & Risk: 15%

Project Costs: \$681,220

Other Costs (P/R): \$50,390

Slash Disposal: \$0

Other Costs: \$201,297

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

Road Maintenance: \$10.50

Hauling Costs

Species	\$/MBF	Trips/Day	MBF/Load
Douglas - Fir	\$0.00	2.0	3.3
Alder (Red)	\$0.00	3.0	3.0



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Logging Costs Breakdown Clear Creek Ridge Sale 341-05-55

Costs	Douglas - Fir	Alder (Red)
Logging	173.50	183.06
Road Maintenance	11.05	11.67
Fire Protection	1.60	1.60
Hauling	69.16	56.78
Other (P/R appl.)	7.45	7.45
Profit & Risk	39.41	39.08
Slash Disposal	0.00	0.00
Scaling	2.00	0.00
Other	29.78	29.78
Total	333.95	329.42

Amortization	0.00	0.00
Pond Value	619.06	610.82
Stumpage	285.11	281.40
Amortized	0.00	0.00



Timber Sale Appraisal Summary Clear Creek Ridge Sale 341-05-55

"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	6,469.00	291.00
Value	283.11	281.40
Total	1,844,376.59	81,887.40

Gross Timber Sale Value

Recovery \$1,926,263.99

Prepared by: Jim Neuman

Date: 4/6/05

District: Tillamook

Phone: (503) 842-2545

PROJECT SUMMARY SHEET

Sale: Clear Creek Ridge Date: Mar. 22 2005

Construction -

Point	C-D	24+10	stations =	\$46,016.44
Point	I - J	3+20	stations =	\$2,760.43
Point	K - L	12+55	stations =	\$21,048.29
Point	O - P	6+20	stations =	\$5,538.81
Point			stations =	\$0.00
SUB TOTAL				\$75,363.97

Improvement -

Point	A - B	694+85	stations =	\$507,103.88
Point	C - D	25+25	stations =	\$16,725.32
Point	G - H	10+60	stations =	\$6,820.22
Point	I - J	11+60	stations =	\$10,334.59
Point	M - N	14+50	stations =	\$8,850.03
Point	O - P	39+60	stations =	\$34,308.72
Point	Q - R	10+20	stations =	\$5,392.15
Point			stations =	\$0.00
SUB TOTAL				\$589,534.91

Special Projects -

Points W - X Road Abandonment	8+00 Stations	\$5,263.75
North Fork Pit Stockpile:		
52'L x 52'Wx14'H Approx. 860 CY	Truck Yards	\$7,172.40
SUB TOTAL		\$12,436.15

Move - In -

1 Grader, 1 3cy Loader, 1 Vibratory Roller, 1 Excavator, 1 Backhoe,	
1 D7 Tractor, 1 D8 Tractor, 1 Water Truck, 7 Dump Trucks	\$3,884.38
	\$0.00
	\$0.00
SUB TOTAL	\$3,884.38

GRAND TOTAL \$681,219.41

SUMMARY OF CONSTRUCTION COST

Sale: Clear Creek Ridge Road: Points C - D

Construction - 24+10 stations Improvement - 25+25 stations
0.46 miles 0.48 miles

CLEARING AND GRUBBING -

Side cast	0.00 acres @	\$540.00	per acre =	\$0.00	
Scattering	4.20 acres @	\$815.00	per acre =	\$3,423.00	
Piling	0.00 acres @	\$905.00	per acre =	\$0.00	
Endhaul	0.00 acres @	\$1,500.00	per acre =	\$0.00	
TOTAL CLEARING AND GRUBBING					\$3,423.00

EXCAVATION -

Cat	6 hr.s @	\$140.00	per hr. =	\$840.00	
Excavator	6 hr.s @	\$140.00	per hr. =	\$840.00	
	8.40 sta. @	\$45.00	per sta. =	\$378.00	
	6.70 sta. @	\$65.00	per sta. =	\$435.50	
Excavate	355 cys. @	\$2.65	per c.y. =	\$940.75	
Excavate & End Haul	6541 cys. @	\$3.00	per c.y. =	\$19,623.00	
Excavate & Fill	1271 cys. @	\$1.65	per c.y. =	\$2,097.15	
Fill w/ End Haul	2704 cys. @	\$3.05	per c.y. =	\$8,247.20	
	0 cys. @	\$0.00	per c.y. =	\$0.00	
TOTAL EXCAVATION					\$33,401.60

6" Depth	1,398 cy. of	4"-0"Crshd @	\$15.97	per c.y.=	\$22,326.06
CrvWiden	84 cy. of	4"-0"Crshd @	\$15.97	per c.y.=	\$1,341.48
7Tmouts	67 cy. of	4"-0"Crshd @	\$15.97	per c.y.=	\$1,069.99
SmTurnrnd	15 cy. of	4"-0"Crshd @	\$15.97	per c.y.=	\$239.55
TOTAL SURFACING					\$24,977.08

SPECIAL PROJECTS

Grade Road: 24+10 Stations @ \$9.75/sta.	\$234.98	
Roll Subgrade: 24+10 Stations @ \$11/sta.	\$265.10	
Seed & Fertilize Areas of Disturbed Soil: 2 Acres @ \$220/ac.	\$440.00	
	\$0.00	
TOTAL SPECIAL PROJECTS		\$940.08

GRAND TOTAL \$62,741.76

SUMMARY OF CONSTRUCTION COST

Sale: Clear Creek Ridge Road: Points G - H

Construction - 0.00 stations Improvement - 10+60 stations
0.00 miles 0.20 miles

CLEARING AND GRUBBING -

Side cast	0.00	acres @	\$540.00	per acre =	\$0.00	
Scattering	0.73	acres @	\$815.00	per acre =	\$594.95	
Piling	0.00	acres @	\$905.00	per acre =	\$0.00	
Endhaul	0.00	acres @	\$1,500.00	per acre =	\$0.00	
TOTAL CLEARING AND GRUBBING						\$594.95

EXCAVATION -

	7.60	sta. @	\$40.00	per sta. =	\$304.00	
w/ Endhaul:						
Excavator	3	hr.s @	\$130.00	per hr. =	\$390.00	
D-7	3	hr.s @	\$115.00	per hr. =	\$345.00	
	0	cys. @	\$0.00	per c.y. =	\$0.00	
TOTAL EXCAVATION						\$735.00

SURFACING-

6" Depth	300	cy. of	4"-0"Crshd @	\$14.66	per c.y.=	\$4,398.00
CrvWiden	18	cy. of	4"-0"Crshd @	\$14.66	per c.y.=	\$263.88
2Tmouts	19	cy. of	4"-0"Crshd @	\$14.66	per c.y.=	\$278.54
SmTurnrnd	15	cy. of	4"-0"Crshd @	\$14.66	per c.y.=	\$219.90
TOTAL SURFACING						\$5,160.32

SPECIAL PROJECTS

Grade Subgrade: 10+60 Stations @ \$9.75/sta.	\$103.35	
Roll Subgrade: 10+60 Stations @ \$11/sta.	\$116.60	
Grass Seed & Fertilize Areas of Disturbed Soil: .5 Acres @ \$220/acre	\$110.00	
	\$0.00	
TOTAL SPECIAL PROJECTS		\$329.95

GRAND TOTAL \$6,820.22

SUMMARY OF CONSTRUCTION COST

Sale: Clear Creek Ridge Road: Points I - J

Construction - 3+20 stations Improvement - 11+60 stations
0.06 miles 0.22 miles

CLEARING AND GRUBBING -

Side cast	0.00 acres @	\$540.00 per acre =	\$0.00
Scattering	0.83 acres @	\$815.00 per acre =	\$676.45
Piling	0.00 acres @	\$905.00 per acre =	\$0.00
Endhaul	0.00 acres @	\$1,500.00 per acre =	\$0.00
TOTAL CLEARING AND GRUBBING			\$676.45

EXCAVATION -

w/ Endhaul:			
	1566 cys. @	\$2.60 per c.y. =	\$4,071.60
	613 cys. @	\$2.65 per c.y. =	\$1,624.45
	0 cys. @	\$0.00 per c.y. =	\$0.00
TOTAL EXCAVATION			\$5,696.05

SURFACING-

6" Depth	419 cy. of	4"-0"Crshd @	\$12.98 per c.y. =	\$5,438.62
CrvWiden	26 cy. of	4"-0"Crshd @	\$12.98 per c.y. =	\$337.48
2Tmouts	19 cy. of	4"-0"Crshd @	\$12.98 per c.y. =	\$246.62
SmTurnrnd	15 cy. of	4"-0"Crshd @	\$12.98 per c.y. =	\$194.70
TOTAL SURFACING				\$6,217.42

SPECIAL PROJECTS

Grade Road: 14+80 Stations @ \$9.75/sta.	\$144.30	
Roll Subgrade: 14+80 Stations @ \$11/sta.	\$162.80	
Grass Seed & Fertilize Areas of Disturbed Soil: .9 Acres @ \$220/ac.	\$198.00	
	\$0.00	
TOTAL SPECIAL PROJECTS		\$505.10

GRAND TOTAL \$13,095.02

SUMMARY OF CONSTRUCTION COST

Sale: Clear Creek Ridge Road: Points K - L

Construction - 12+55 stations
0.24 miles
Improvement - 0.00 stations
0.00 miles

CLEARING AND GRUBBING -

Side cast	0.00 acres @	\$540.00	per acre =	\$0.00	
Scattering	1.60 acres @	\$815.00	per acre =	\$1,304.00	
Piling	0.00 acres @	\$905.00	per acre =	\$0.00	
Endhaul	0.00 acres @	\$1,500.00	per acre =	\$0.00	
TOTAL CLEARING AND GRUBBING					\$1,304.00

EXCAVATION -

	0 hr.s @	\$0.00	per hr. =	\$0.00	
	0.00 sta. @	\$65.00	per sta. =	\$0.00	
Fill	2408 cys. @	\$2.65	per c.y. =	\$6,381.20	
End Haul	2852 cys. @	\$2.99	per c.y. =	\$8,527.48	
	0 cys. @	\$0.00	per c.y. =	\$0.00	
TOTAL EXCAVATION					\$14,908.68

SURFACING-

5" Depth	293 cy. of	2"-0"Crshd @	\$12.68	per c.y.=	\$3,715.24
CrvWiden	18 cy. of	2"-0"Crshd @	\$12.68	per c.y.=	\$228.24
2Trnouts	16 cy. of	2"-0"Crshd @	\$12.68	per c.y.=	\$202.88
SmTurnnd	13 cy. of	2"-0"Crshd @	\$12.68	per c.y.=	\$164.84
TOTAL SURFACING					\$4,311.20

SPECIAL PROJECTS

<u>Grade Road: 12+55 Stations @ \$9.75/sta.</u>	\$122.36
<u>Roll Subgrade: 12+55 Stations @ \$11/sta.</u>	\$138.05
<u>Grass Seed & Fertilize Areas of Disturbed Soil: 1.2 Acres @ \$220/ac.</u>	\$264.00
	\$0.00
TOTAL SPECIAL PROJECTS	\$524.41

GRAND TOTAL \$21,048.29

SUMMARY OF CONSTRUCTION COST

Sale: Clear Creek Ridge Road: Points M - N

Construction - 0.00 stations miles Improvement - 14+50 stations miles
0.27 miles

CLEARING AND GRUBBING -

Scattering 1.00 acres @ \$815.00 per acre = \$815.00
 TOTAL CLEARING AND GRUBBING \$815.00

EXCAVATION -

0.00 sta. @ \$65.00 per sta. = \$0.00
 425 cys. @ \$2.00 per c.y. = \$850.00
 0 cys. @ \$0.00 per c.y. = \$0.00
 TOTAL EXCAVATION \$850.00

SURFACING-

6" Depth 411 cy. of 4"-0"Crshd @ \$14.35 per c.y. = \$5,897.85
 CrvWiden 24 cy. of 4"-0"Crshd @ \$14.35 per c.y. = \$344.40
 2Tmouts 19 cy. of 4"-0"Crshd @ \$14.35 per c.y. = \$272.65
 SmTummd 15 cy. of 4"-0"Crshd @ \$14.35 per c.y. = \$215.25
 TOTAL SURFACING \$6,730.15

SPECIAL PROJECTS

Grade Road: 14.5 Stations @ \$9.75/sta. \$141.38
 Roll Subgrade: 14.5 Stations @ \$11/sta. \$159.50
 Seed & Fertilize Areas of Distrubed Soil: .7 Acres @ \$220/ac. \$154.00
 \$0.00
 TOTAL SPECIAL PROJECTS \$454.88

GRAND TOTAL \$8,850.03

SUMMARY OF CONSTRUCTION COST

Sale: Clear Creek Ridge Road: Points O - P Clear Creek

Construction - $\frac{6+20}{0.12}$ stations miles Improvement - $\frac{39+60}{0.75}$ stations miles

CLEARING AND GRUBBING -

Scattering 1.80 acres @ \$815.00 per acre = \$1,467.00
 TOTAL CLEARING AND GRUBBING \$1,467.00

EXCAVATION -

Cat	1.5 hr.s @	\$140.00 per hr. =	\$210.00
Excavator	2 hr.s @	\$140.00 per hr. =	\$280.00
	14.10 sta. @	\$55.00 per sta. =	\$775.50
Fill	424 cys. @	\$2.00 per c.y. =	\$848.00
End Haul	1275 cys. @	\$3.70 per c.y. =	\$4,717.50
Fill	1250 cys. @	\$2.75 per c.y. =	\$3,437.50
	0 cys. @	\$0.00 per c.y. =	\$0.00
TOTAL EXCAVATION			\$10,268.50

CULVERT MATERIALS -

Culverts			
64	LF of 18"	\$1,024.00	106 LF of 24" \$2,385.00
40	LF of 30"	\$1,240.00	0 LF of 36" \$0.00
		<u>\$2,264.00</u>	<u>\$2,385.00</u>
Half Rounds			
20	LF of 21"	\$228.00	20 LF of 30" \$290.00
		<u>\$228.00</u>	<u>\$290.00</u>
Culvert Stakes			
8	1/2 round stakes @	\$8.00 per stake =	\$64.00
8	marker stakes @	\$6.00 per stake =	\$48.00
TOTAL CULVERT MATERIALS			\$5,279.00

SURFACING-

7" Depth	1,529 cy. of	4"-0"Crshd @	\$12.26 per c.y. =	\$18,745.54
CrvWiden	92 cy. of	4"-0"Crshd @	\$12.26 per c.y. =	\$1,127.92
7Trnouts	79 cy. of	4"-0"Crshd @	\$12.26 per c.y. =	\$968.54
SmTurnmd	18 cy. of	4"-0"Crshd @	\$12.26 per c.y. =	\$220.68
TOTAL SURFACING				\$21,062.68

SPECIAL PROJECTS

Grade Road: 45+80 Stations @ \$9.75/sta.	\$446.55
Roll Subgrade: \$11/sta.	\$503.80
Grass Seed & Fertilize And Mulch Areas of Distrubed Soil: 1 Acre @ \$820/ac	\$820.00
	\$0.00
TOTAL SPECIAL PROJECTS	\$1,770.35

GRAND TOTAL \$39,847.53

SUMMARY OF CONSTRUCTION COST

Sale: Clear Creek Ridge Road: Points Q - R

Construction - 0.00 stations / 0.00 miles Improvement - 10+20 stations / 0.19 miles

CLEARING AND GRUBBING -

Side cast	0.00 acres @	\$540.00 per acre =	\$0.00	
Scattering	0.70 acres @	\$815.00 per acre =	\$570.50	
Piling	0.00 acres @	\$905.00 per acre =	\$0.00	
Endhaul	0.00 acres @	\$1,500.00 per acre =	\$0.00	
TOTAL CLEARING AND GRUBBING				\$570.50

EXCAVATION -

0 hr.s @	\$0.00 per hr. =	\$0.00
10.20 sta. @	\$40.00 per sta. =	\$408.00
0 cys. @	\$0.00 per c.y. =	\$0.00
0 cys. @	\$0.00 per c.y. =	\$0.00
0 cys. @	\$0.00 per c.y. =	\$0.00
TOTAL EXCAVATION		\$408.00

SURFACING-

6" Depth	289 cy. of	4"-0"Crshd @	\$12.00 per c.y.=	\$3,468.00
CrvWiden	18 cy. of	4"-0"Crshd @	\$12.00 per c.y.=	\$216.00
2Trnouts	19 cy. of	4"-0"Crshd @	\$12.00 per c.y.=	\$228.00
SmTurnmd	15 cy. of	4"-0"Crshd @	\$12.00 per c.y.=	\$180.00
TOTAL SURFACING				\$4,092.00

SPECIAL PROJECTS

Grade Road: 10+20 Stations @ \$9.75/sta.	\$99.45	
Roll Subgrade: 10+20 Stations @ \$11/sta.	\$112.20	
Grass Seed & Fertilize Areas of Distrubed Soil: \$220/ac. X .5 ac.	\$110.00	
	\$0.00	
TOTAL SPECIAL PROJECTS		\$321.65

GRAND TOTAL \$5,392.15

SUMMARY OF VACATING COST

Sale:	<u>Clear Creek Ridge</u>	Road:	<u>Points W - X</u>
Construction -	<u>0.00</u> stations miles	Road Vacating	<u>8+00</u> stations <u>0.15</u> miles
CLEARING AND GRUBBING -			
Scattering	0.25 acres @	\$815.00 per acre =	<u>\$203.75</u>
			TOTAL CLEARING AND GRUBBING
			\$203.75
EXCAVATION -			
Sidecast Pullback	3002 cys. @	\$1.50 per c.y. =	\$4,503.00
	0 cys. @	\$0.00 per c.y. =	<u>\$0.00</u>
			TOTAL EXCAVATION
			\$4,503.00
SPECIAL PROJECTS			
Sta. 0+00 Construct Tank Trap			\$40.00
Sta. 0+90: Construct Ditch Across Road			\$25.00
Grass Seed, Fertilize & Mulch Disturbed Soil: .6 Acres @ \$820/ac.			\$492.00
			<u>\$0.00</u>
			TOTAL SPECIAL PROJECTS
			\$557.00
			GRAND TOTAL
			<u>\$5,263.75</u>

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

SALE: CLEAR CREEK RIDGE

Pit:	<u>Clear Creek/Hembre</u>	Location:	<u>NE1/4 NW1/4 S15 T1S R8W</u>
Rock:	<u>2"-0" Crushed 16,786 CY</u>	Road:	<u>20283 c.y.</u>
Rock:	<u>4"-0" Crushed 5,345 CY</u>	Bedding Rock	<u>373 c.y.</u>
Swell:	<u>1.40</u>		
Drill Pct.:	<u>80%</u>	Total Truck Loads:	<u>20656 c.y.</u>
		In Place Total:	<u>14754 c.y.</u>

Pit Development:				\$10,000.00
Drill & Shoot:	\$2.10 /cu.yd.	x	11803 cu.yds.	= \$24,786.30
Strip Rock:	\$1.50 /cu.yd.	x	2,951 cu.yds.	= \$4,426.50
Push Rock:	\$0.60 /cu.yd.	x	20656 cu.yds.	= \$12,393.60
Load Crusher:	\$0.53 /cu.yd.	x	20656 cu.yds.	= \$10,947.68
Crushing:	\$2.25 /cu.yd.	x	20656 cu.yds.	= \$46,476.00
Load Dump Truck:	\$0.60 /cu.yd.	x	20656 cu.yds.	= \$12,393.60
Oversize Reduction:	\$4.00 /cu.yd.	x	0 cu.yds.	= \$0.00
		Sub Total		\$121,423.68

MOVE-IN:

Drill & Compressor	\$289.46
Rock Crusher	\$1,642.74
Crusher Setup	\$2,520.00
Change Gradation	\$207.00
	<u>\$4,659.20</u>

Base Cost: \$6.10 Per Cu.Yd.

Road Segment	Haul Cost /cu.yd.	Proc Cost /cu.yd.	Base Cst. /cu.yd.	Cost /cu.yd.	Number Cu. Yds	ROCK COST
A - B Stations 325+45						
to 624+85	\$4.87	\$1.30	\$6.10	\$12.27	12744	\$156,368.88
A - B Stations 624+85						
to 694+85	\$1.38	\$1.30	\$6.10	\$8.78	2276	\$19,983.28
C to D	\$8.57	\$1.30	\$6.10	\$15.97	1564	\$24,977.08
G to H	\$7.26	\$1.30	\$6.10	\$14.66	352	\$5,160.32
I to J	\$5.58	\$1.30	\$6.10	\$12.98	479	\$6,217.42
K to L	\$5.28	\$1.30	\$6.10	\$12.68	340	\$4,311.20
M to N	\$6.95	\$1.30	\$6.10	\$14.35	469	\$6,730.15
O to P	\$4.86	\$1.30	\$6.10	\$12.26	1718	\$21,062.68
Q to R	\$4.60	\$1.30	\$6.10	\$12.00	341	\$4,092.00
			Total C.Y.	20283	Sub Total	\$248,903.01

Bedding	Haul Cost /cu.yd.	Proc Cost /cu.yd.	Base Cst. /cu.yd.	Cost /cu.yd.	Number Cu.Yds.	ROCK COST
Rock A-B						
641+25	\$1.98	\$0.55	\$6.10	\$8.63	113	\$975.19
617+80	\$2.65	\$0.55	\$6.10	\$9.30	130	\$1,209.00
617+00	\$2.65	\$0.55	\$6.10	\$9.30	130	\$1,209.00
			Total C.Y.	373	Sub Total	\$3,393.19

TOTAL ROCKING COSTS = \$252,296.20

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

SALE: CLEAR CREEK RIDGE

Pit:	<u>North Fork</u>	Location:	<u>SE1/4 SE1/4 S25 T1S R8W</u>
Rock:	<u>2"-0" Crushed</u>	Road:	<u>8411 c.y.</u>
Swell:	<u>1.40</u>	Stockpile Truck Yardage:	<u>860 c.y.</u>
Shrinkage:	<u>1.16</u>	Total Truck Loads:	<u>9271 c.y.</u>
Drill Pct.:	<u>100%</u>	In Place Total:	<u>6622 c.y.</u>

Pit Development:					\$17,000.00
Drill & Shoot:	<u>\$2.10 /cu.yd.</u>	x	<u>6622 cu.yds.</u>	=	\$13,906.20
Strip Rock:	<u>\$1.50 /cu.yd.</u>	x	<u>0 cu.yds.</u>	=	\$0.00
Push Rock:	<u>\$0.60 /cu.yd.</u>	x	<u>9271 cu.yds.</u>	=	\$5,562.60
Load Crusher:	<u>\$0.53 /cu.yd.</u>	x	<u>9271 cu.yds.</u>	=	\$4,913.63
Crushing:	<u>\$2.25 /cu.yd.</u>	x	<u>9271 cu.yds.</u>	=	\$20,859.75
Load Dump Truck:	<u>\$0.60 /cu.yd.</u>	x	<u>9271 cu.yds.</u>	=	\$5,562.60
Oversize Reduction:	<u>\$4.50 /cu.yd.</u>	x	<u>0 cu.yds.</u>	=	\$0.00
			<u>Sub Total</u>		<u>\$67,804.78</u>

MOVE-IN:

Drill & Compressor	\$289.46
Rock Crusher	\$1,642.74
Crusher Setup	\$2,520.00
	<u>\$4,452.20</u>

Base Cost= \$7.79 Per Cu.Yd.

Road Segment	Haul Cost /cu.yd.	Proc Cost /cu.yd.	Base Cst. /cu.yd.	Cost /cu.yd.	Number Cu. Yds	ROCK COST
A - B						
0+00-325+45	<u>\$6.65</u>	<u>\$1.30</u>	<u>\$7.79</u>	<u>\$15.74</u>	<u>8411</u>	<u>\$132,389.14</u>
				<u>Total C.Y.</u>	<u>8411</u>	<u>Sub Total</u>
						<u>\$132,389.14</u>

Stockpile	Haul Cost /cu.yd.	Proc Cost /cu.yd.	Base Cst. /cu.yd.	Cost /cu.yd.	Number Cu.Yds.	ROCK COST
	<u>\$0.00</u>	<u>\$0.55</u>	<u>\$7.79</u>	<u>\$8.34</u>	<u>860</u>	<u>\$7,172.40</u>
				<u>Total C.Y.</u>	<u>860</u>	<u>Sub Total</u>
						<u>\$7,172.40</u>

TOTAL ROCKING COSTS = **\$139,561.54**



**OREGON DEPARTMENT OF FORESTRY
CRUISE REPORT**

Clear Creek Ridge

1. **Type of Sale:** Regeneration harvest - Recovery
2. **Legal Description:** Portions of Sections 11, 13, 14, 15, 23 & 24, T1S, R7W, W.M., Tillamook County, Oregon.
3. **Sale Acreage:** The sale boundaries were plotted on a digital orthophoto and the acreage was calculated with GIS.

ACRES				
Area	Type of Cut	Sale	Total	Net
1	Retention Cut	4	4	4
2	Modified Clearcut	116	97	97
3	Retention Cut	7	5	5
4	Retention Cut	22	15	15
5	Modified Clearcut	11	11	11
6	Modified Clearcut	74	74	73
7	Retention Cut	9	8	8
8	Retention Cut	71	63	63
9	Modified Clearcut	79	76	69
10	Retention Cut	14	13	13
11	Modified Clearcut	53	53	53
12	Modified Clearcut	109	104	104
13	Retention Cut	36	36	36
14	Modified Clearcut	25	25	25
15	Modified Clearcut	50	46	46
Total		680	630	622

Sale Acres:

Area within the Timber Sale Boundary signs.

Total acres:

For accomplishment reporting

Sale area, plus green tree retention areas outside the sale boundary, less roads and riparian areas classified as Special Stewardship in LCMS inside the sale boundary.

Net acres:

Used for calculating the advertised volume.

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

4. **Cruising Procedures:**

A: Cruise Method:

The cruise was designed to provide volume and grade for Douglas-fir and red alder and the number and quadratic mean diameters of other conifers and hardwoods. A total of 193 variable-radius full point plots were installed in the sale area. The cruise lines were oriented N 20 E and were 630 feet apart with plots located every 310 feet on the cruise lines. For all plots, the tree count by diameter for all species was recorded. On every third plot, all Douglas-fir was measured and graded to determine a VBAR for the sale area. On all plots, red alder, big leaf maple and all other conifers were measured and graded to determine the VBAR for the sale area. Diameters were recorded to the nearest 1" and heights to the nearest foot. Diameters were taken at 4.5' above the ground on the uphill side. Conifer with a DBH of 8" or larger were recorded. Hardwoods with a DBH of 9" and larger were recorded. The cruise had a coefficient of variation of 49.6% and a SE of 3.6% for the net board feet/acre.

B: Plot size

A 20 BAF was used for Douglas-fir. A 10 BAF was used on all other conifer and hardwoods. The point of tree observation was 4.5 feet.

C: Grading System: Conifer tree heights were measured to a 6" merchantable top (outside bark) favoring 40 foot log lengths using Columbia River rules. All hardwoods were measured to an 8" top favoring 40 foot log lengths.

5. **Computation Procedure:** For all areas, V-BAR (Volume-Basal Area Ratio), Basal Area and Quadratic Mean Diameter for the take trees was computed using SuperACE and entered into the Volume Summary Spreadsheet (see attached) to obtain volumes for use in the appraisal. For red alder, Superace log tables were used to determine diameter sorts. Below is a complete summary of the different types of harvests for all areas for Douglas-fir. All alder will be harvested. All other conifer and hardwoods trees will be retained as residual trees.

Summary of Leave Trees and Basal Area Per Acre for Douglas-fir

Area	Type of Regeneration Harvest	Diameter Limit Douglas-fir	Trees/Acre Retained	Basal Area/Acre Retained
1	Retention		40	60
2	Modified	23"	5	17
3	Retention		26	40
4	Retention		22	38
5	Modified	30"	3	13
6	Modified	21"	5	17
7	Retention		24	39
8	Retention		24	39
9	Modified	21"	2	5
10	Retention		22	37
11	Modified	25"	5	19
12	Modified	21"	6	19

13	Retention		20	38
14	Modified	21"	4	11
15	Modified	26"	2	11

6. **Defect and Breakage:** A 5% reduction for Douglas-fir and 10% for red alder for defect and breakage were applied to the volumes.

7. **Timber Description:** The entire sale area burned in 1933 Tillamook fire and the 1939 Saddle Mountain fire. Parts of Areas 2, 4, 5 & 11 burned in the 1945 Wilson River fire. The entire sale area (except Area #3 which is natural regeneration) was planted in the early 1960's. Most of the red alder was sprayed in the 1970's. The sale area has had no other stand management.

8. **Cruiser Names/Dates:** Don Everingham, Jay Morey, Jim Neuman & Ed Wallmark, October and November, 2004.

9. **Revenue Distribution:**
100% FDF
Tax Code: 9-2
Deed Numbers: 203, 219, 220, 221, 234 & 237
Rehabilitation Obligation: 90%

10. **Attachments:**
Volume Summary
Logging Plan



"STEWARDSHIP IN FORESTRY"

Clear Creek Ridge

Volume Summary

Area 1, Retention Cut							
4 acres							
SPECIES	QMD	Basal Area	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	11	40	81	3.2	13	5%	12
Alder	11	7	28	0.2	1	10%	1
TOTAL							13

Area 2, Modified Clearcut							
97 acres							
SPECIES	QMD	Basal Area	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	13	132	105	13.9	1348	5%	1281
Alder	13	13	44	0.6	58	10%	52
TOTAL							1333

Area 3, Retention Cut							
5 acres							
SPECIES	QMD	Basal Area	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	14	180	129	23.2	116	5%	110
Alder	13	10	37	0.4	2	10%	2
TOTAL							112

Area 4, Retention Cut							
15 acres							
SPECIES	QMD	Basal Area	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	13	75	87	6.5	98	5%	93
Alder	13	29	27	0.8	12	10%	11
TOTAL							104

Area 5, Modified Clearcut							
11 acres							
SPECIES	QMD	Basal Area	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	11	87	94	8.2	90	5%	86
Alder	19	7	39	0.3	3	10%	3
TOTAL							89

Area 6, Modified Clearcut							
73 acres							
SPECIES	QMD	Basal Area	V-BAR	Vol/Acre MBF	Volume MBF	D % F	Net Vol MBF
Douglas-fir	12	75	90	6.8	496	5%	471
Alder	13	43	18	0.8	58	10%	52
TOTAL							523

Area 7, Retention Cut							
8 acres							
SPECIES	QMD	Basal Area	V-BAR	Vol/Acre MBF	Volume MBF	D % F	Net Vol MBF
Douglas-fir	13	123	93	11.4	91	5%	86
Alder	14	2	21	0.0	0	10%	0
TOTAL							86

Area 8, Retention Cut							
63 acres							
SPECIES	QMD	Basal Area	V-BAR	Vol/Acre MBF	Volume MBF	D % F	Net Vol MBF
Douglas-fir	13	123	93	11.4	718	5%	682
Alder	14	2	21	0.0	0	10%	0
TOTAL							682

Area 9, Modified Clearcut							
69 acres							
SPECIES	QMD	Basal Area	V-BAR	Vol/Acre MBF	Volume MBF	D % F	Net Vol MBF
Douglas-fir	12	161	81	13.0	897	5%	852
Alder	13	24	16	0.4	28	10%	25
TOTAL							877

Area 10, Retention Cut							
13 acres							
SPECIES	QMD	Basal Area	V-BAR	Vol/Acre MBF	Volume MBF	D % F	Net Vol MBF
Douglas-fir	10	127	67	8.5	111	5%	105
Alder	13	7	33	0.2	3	10%	3
TOTAL							108

Area 11, Modified Clearcut							
53 acres							
SPECIES	QMD	Basal Area	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	13	115	100	11.5	610	5%	580
Alder	13	26	38	1.0	53	10%	48
TOTAL							628

Area 12, Modified Clearcut							
104 acres							
SPECIES	QMD	Basal Area	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	13	105	87	9.1	946	5%	899
Alder	13	27	23	0.6	62	10%	56
TOTAL							955

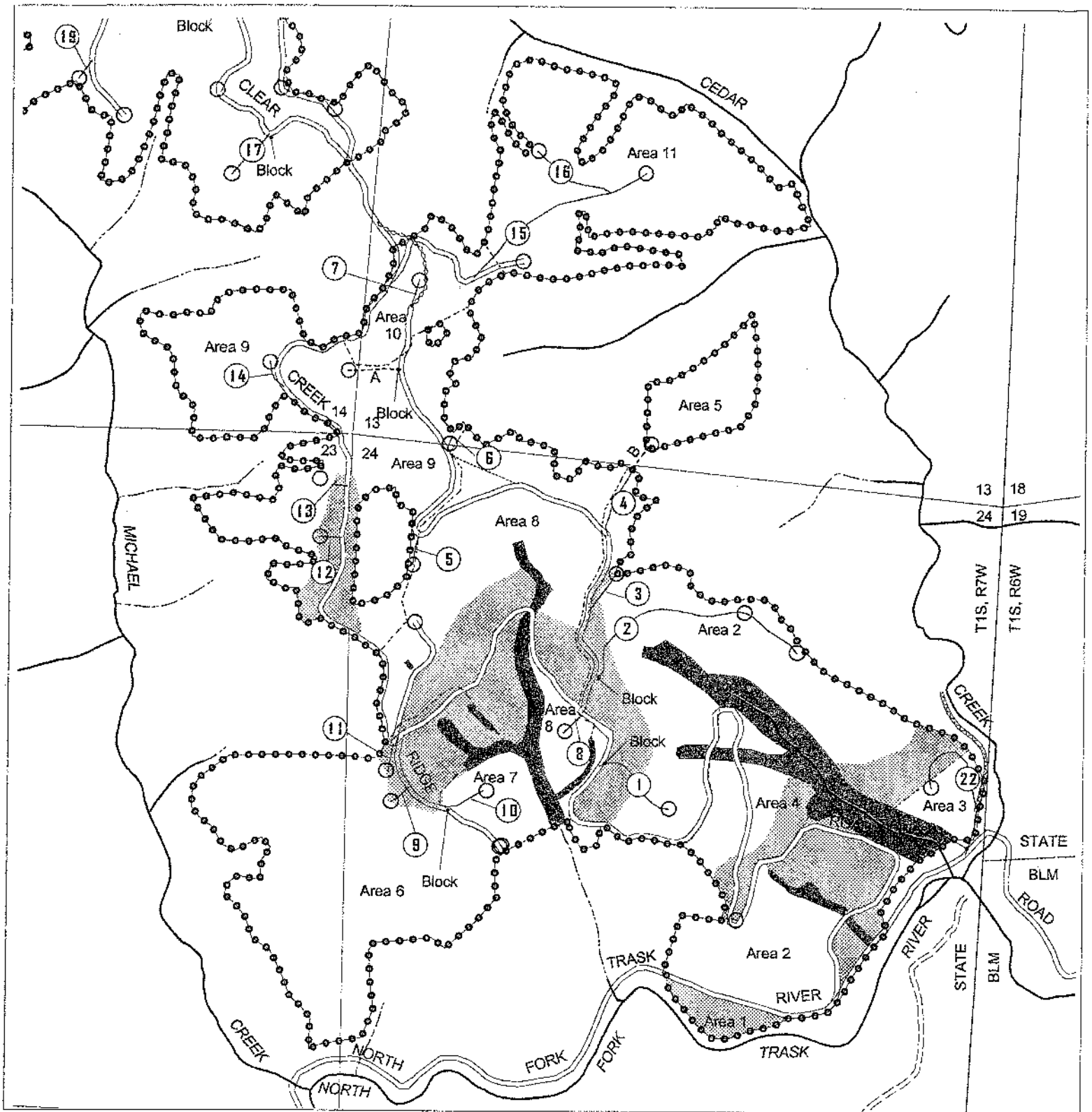
Area 13, Retention Cut							
36 acres							
SPECIES	QMD	Basal Area	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	12	100	88	8.8	317	5%	301
Alder	13	18	30	0.5	18	10%	16
TOTAL							317

Area 14, Modified Clearcut							
25 acres							
SPECIES	QMD	Basal Area	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	12	191	95	18.1	453	5%	430
Alder	13	14	41	0.6	15	10%	14
TOTAL							444

Area 15, Modified Clearcut							
46 acres							
SPECIES	QMD	Basal Area	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	13	128	86	11.0	506	5%	481
Alder	13	8	24	0.2	9	10%	8
TOTAL							489

Clear Creek Volume Summary

SPECIES	QMB	Net Vol (QMB)
Douglas-fir	13	6469
Alder	13	291
TOTAL		6760



LOGGING PLAN
Timber Sale Contract No. 341-05-55
Clear Creek Ridge
Portions of Sections 11, 13, 14, 15,
23 and 24, T1S, R7W, W. M.
Tillamook County, Oregon



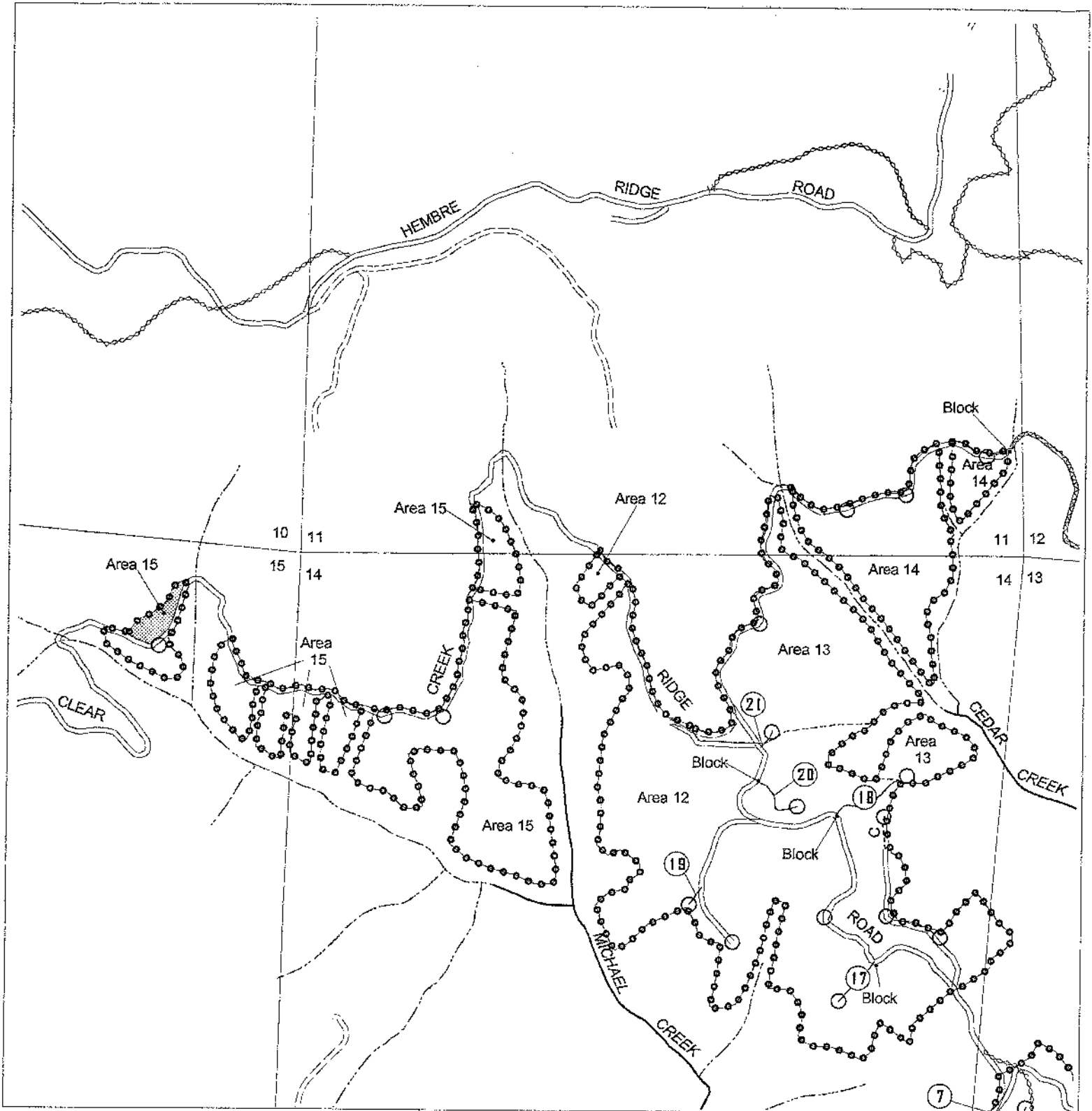
Tillamook District GIS
 1-4-2005

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



- Landing
- ▲ Domestic water supply
- ⊗ Blocked
- ▭ Cable yarding
- ▨ Ground yarding
- ▩ Helicopter yarding
- ▧ Downhill yarding
- ▦ Buffer
- ▤ Non-required thinning
- Area boundary
- Sale boundary
- Ownership boundary
- Perennial Type-F stream
- Perennial Type-N stream
- Surfaced road
- Unsurfaced road
- State highway
- County road
- ② Non-project road
- Swing road
- Abandoned road
- OHV trail
- Non-motorized trail
- T T Transmission line

Area	Type of Operation	Acres	
		Sale	Net
1	Retention Cut	4	4
2	Modified Clearcut	116	97
3	Retention Cut	7	5
4	Retention Cut	22	15
5	Modified Clearcut	11	11
6	Modified Clearcut	74	73
7	Retention Cut	9	8
8	Retention Cut	71	63
9	Modified Clearcut	79	69
10	Retention Cut	14	13
11	Modified Clearcut	53	53
12	Modified Clearcut	109	104
13	Retention Cut	36	36
14	Modified Clearcut	25	25
15	Modified Clearcut	50	46
Total		680	622



- Landing
- ▲ Domestic water supply
- ⊗ Blocked
- Cable yarding
- ▨ Ground yarding
- ▩ Helicopter yarding
- ▧ Downhill yarding
- ▦ Buffer
- ▤ Non-required thinning
- Area boundary
- Sale boundary
- Ownership boundary
- Perennial Type-F stream
- Perennial Type-N stream
- Surfaced road
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- State highway
- County road
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LOGGING PLAN
Timber Sale Contract No. 341-05-55
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Area	Type of Operation	Acres	
		Sale	Net
1	Retention Cut	4	4
2	Modified Clearcut	116	97
3	Retention Cut	7	5
4	Retention Cut	22	15
5	Modified Clearcut	11	11
6	Modified Clearcut	74	73
7	Retention Cut	9	8
8	Retention Cut	71	63
9	Modified Clearcut	79	69
10	Retention Cut	14	13
11	Modified Clearcut	53	53
12	Modified Clearcut	109	104
13	Retention Cut	36	36
14	Modified Clearcut	25	25
15	Modified Clearcut	50	46
Total		680	622