



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Fire Mole
Sale 341-08-040

District: Tillamook

Date: June 29, 2007

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sales Value	\$469,418.66	\$298,910.02	\$768,328.68
		Project Work:	\$(164,100.00)
		Advertised Value:	\$604,228.68



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Timber Description

Location: Portions of Sections 32 and 33, T1N, R7W, and Sections 4 and 5, T1S, R7W, W.M., Tillamook County, Oregon.

Stand Stocking: 60%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	15	0	95
Western Hemlock / Fir	23	0	95
Alder (Red)	14	0	90

Volume by Grade	2S	3S	3S 10" -	4S	4S 8" - 9'	Total
Douglas - Fir	536	898	0	412	0	1,846
Western Hemlock / Fir	0	44	0	6	0	50
Alder (Red)	0	0	261	0	265	526
Total	536	942	261	418	265	2,422



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Comments: Pond Values Used: 2nd Quarter Calendar Year 2007.

Western Red Cedar Stumpage Price = Pond Value minus Logging Cost
\$675/MBF = \$1,025/MBF - \$350/MBF

HAULING

Hauling costs equivalent to \$700 daily truck cost.

Other Costs (Profit and Risk to be added):

Brand and Paint: \$2/MBF x 2,422 MBF = \$ 4,844

Snag Creation: \$ 5/ snag x 150 snags = \$ 750

TOTAL Other Costs (Profit and Risk to be added) = \$5,594

OTHER COSTS (No Profit and Risk added):

Slash piling and sorting: (247 acres of cable harvest /
50acres/hour) x \$85/hr = \$420

OHV trail clearing: 36 stations x \$40/sta = \$1,440

Block Spur roads \$75 x 2 blocks = \$150

OHV Motorcycle filter: \$75 x 2 blocks = \$150

Non-project Road # 1.... 3 stations x \$100/station = \$300

Non-project Road # 2.... 6 stations x \$100/station = \$600

Non-project Road # 3....16 stations x \$100/station = \$1600

Non-project Road # 4....5 stations x \$100/station = \$500

Non-project Road # 5....4 stations x \$100/station = \$400

TOTAL Other Costs (No Profit and Risk added) = \$5,560

ROAD MAINTENANCE of Fox Creek Ridge Road:

Grading-Interim Maintenance = \$250/mile x 4 miles x 1 grading/
2422MBF = \$.41

Grading- Final Maintenance = \$500/mile x 4 miles x 1 grading/
2422MBF = \$.83

Surfacing = [15 cy/mile x 1.9 MMBF x 4 miles x \$6 per yard] /
2422MBF = \$.28

Compaction = [210 stations x \$11/station + \$11/move in] / 2422MBF=
\$1.00

TOTAL ROAD MAINTENANCE COST: \$ 2.52/MBF



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Logging Conditions

Combination#: 1	Douglas - Fir	30.13%
	Western Hemlock / Fir	81.00%
	Alder (Red)	20.17%
Yarding Distance	Medium (800 ft)	Downhill Yarding: No
Logging System:	Cable: Small Tower <=40	Process: Stroke Delimber
Tree Size:	Small / Thinning 9in (70 Bft/tree), 20+ logs/MBF	
Loads / Day:	4.0	Bd. Ft / Load: 3,600
Cost / MBF:	\$196.82	
Machines:	Log Loader (A) Stroke Delimber (A) Tower Yarder (Small)	
Combination#: 2	Douglas - Fir	18.41%
	Western Hemlock / Fir	19.00%
	Alder (Red)	4.73%
Yarding Distance	Medium (800 ft)	Downhill Yarding: No
Logging System:	Track Skidder	Process: Manual Falling/Delimiting
Tree Size:	Small / Thinning 9in (70 Bft/tree), 20+ logs/MBF	
Loads / Day:	6.0	Bd. Ft / Load: 3,400
Cost / MBF:	\$168.65	
Machines:	Log Loader (B) Track Skidder	
Combination#: 3	Douglas - Fir	45.80%
	Alder (Red)	66.83%
Yarding Distance	Medium (800 ft)	Downhill Yarding: No
Logging System:	Cable: Small Tower <=40	Process: Stroke Delimber
Tree Size:	Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF	
Loads / Day:	4.0	Bd. Ft / Load: 3,700
Cost / MBF:	\$191.50	
Machines:	Log Loader (A) Stroke Delimber (A) Tower Yarder (Small)	
Combination#: 4	Douglas - Fir	5.66%
	Alder (Red)	8.26%



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Yarding Distance	Medium (800 ft)	Downhill Yarding:	No
Logging System:	Track Skidder	Process:	Manual Falling/Delimiting
Tree Size:	Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF		
Loads / Day:	7.0	Bd. Ft / Load:	3,700
Cost / MBF:	\$132.84		
Machines:	Log Loader (B) Track Skidder		



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Logging Costs

Operating Seasons:	2.00	Profit Risk:	10.00%
Project Costs:	\$164,100.00	Other Costs (P/R):	\$5,594.00
Slash Disposal:	\$0.00	Other Costs:	\$5,560.00

Miles of Road

Road Maintenance: \$2.52

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	3.4
Western Hemlock / Fir	\$0.00	3.0	3.4
Alder (Red)	\$72.00	3.0	3.2



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Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas - Fir									
\$185.58	\$2.65	\$3.62	\$65.51	\$2.31	\$25.97	\$0.00	\$2.00	\$2.30	\$289.94
Western Hemlock / Fir									
\$191.47	\$2.65	\$3.62	\$65.51	\$2.31	\$26.56	\$0.00	\$2.00	\$2.30	\$296.42
Alder (Red)									
\$186.65	\$2.77	\$3.62	\$79.17	\$2.31	\$27.45	\$0.00	\$2.00	\$2.30	\$306.27

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$542.15	\$252.21	\$0.00
Western Hemlock / Fir	\$0.00	\$373.20	\$76.78	\$0.00
Alder (Red)	\$0.00	\$874.54	\$568.27	\$0.00



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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
Alder (Red)	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	1,846	\$252.21	\$465,579.66
Western Hemlock / Fir	50	\$76.78	\$3,839.00
Alder (Red)	526	\$568.27	\$298,910.02

Gross Timber Sale Value

Recovery: \$768,328.68

Prepared by: Nick Stumpf

Phone: 503-842-2545



PROJECT SUMMARY SHEET

Sale: Fire Mole

CONSTRUCTION

Point	E to F	23+00	stations =	\$33,143.80
Point	G to H	15+70	stations =	\$4,313.99
Point	K Heliport	0+00	stations =	\$4,898.60
SUBTOTAL CONSTRUCTION				\$42,356.39

IMPROVEMENT

Point	A to B	68+00	stations =	\$73,650.80
SUBTOTAL IMPROVEMENT				\$73,650.80

RECONSTRUCTION

Point	C to D	12+00	stations =	\$13,275.89
SUBTOTAL IMPROVEMENT				\$13,275.89

SPECIAL PROJECTS

Point	I to J	46+10	stations =	\$21,670.46
Stockpile	500cy			\$7,450.00
SUBTOTAL SPECIAL PROJECTS				\$29,120.46

MOVE IN **\$5,696.46**

GRAND TOTAL **\$164,100.00**

SUMMARY OF CONSTRUCTION COST

Sale:	Fire Mole				Road:	A to B				
Construction -	0+00		stations		Improvement -	68+00		stations		
	0.00		miles			1.29		miles		
CLEARING AND GRUBBING -										
Widening			0.860	acres @	\$660.00	per acre =	\$567.60			
Scattering			1.560	acres @	\$980.00	per acre =	\$1,528.80			
					TOTAL CLEARING AND GRUBBING				\$2,096.40	
EXCAVATION -										
Road Earthwork			68.00	sta. @	\$90.00	per sta. =	\$6,120.00			
Widening			3902	cy. @	\$1.40	per c.y. =	\$5,462.80			
					TOTAL EXCAVATION				\$11,582.80	
ENDHAUL -										
Widening	17+60	to	19+10	667	cy. @	\$1.49	per c.y. =	\$993.83		
Widening	33+55	to	39+10	740	cy. @	\$1.80	per c.y. =	\$1,332.00		
Widening	39+10	to	42+40	1027	cy. @	\$1.90	per c.y. =	\$1,951.30		
Widening	42+40	to	45+60	427	cy. @	\$1.96	per c.y. =	\$836.92		
Widening	46+70	to	49+50	374	cy. @	\$2.05	per c.y. =	\$766.70		
Widening	52+00	to	55+75	667	cy. @	\$2.05	per c.y. =	\$1,367.35		
Spread & compact				3902	cy. @	\$0.25	per c.y. =	\$975.50		
						TOTAL ENDHAUL				\$8,223.60
CULVERTS - MATERIALS & INSTALLATION										
	<u>Culverts</u>									
	0	LF of 18"		\$0.00	130	LF of 24"		\$3,120.00		
	0	LF of 30"		\$0.00	0	LF of 36"		\$0.00		
	0	LF of 42"		\$0.00	0	LF of 48"		\$0.00		
	0	LF of 54"		\$0.00	0	LF of 60"		\$0.00		
	0	LF of 66"		\$0.00	0	LF of 72"		\$0.00		
				\$0.00				\$3,120.00		
	<u>Half Rounds</u>									
	0	LF of 21"		\$0.00	0	LF of 30"		\$0.00		
	0	LF of 36"		\$0.00	0	LF of 42"		\$0.00		
				\$0.00				\$0.00		
	<u>Culvert Stakes & Markers</u>									
	0	stakes		\$0.00						
	4	markers		\$32.00						
				\$32.00						
					TOTAL CULVERTS				\$3,152.00	
ROCK										
0+00 to	68+00	2,253	cy. of	Crushed	@	\$15.93	per c.y. =	\$35,890.29		
Energy Dissipator	38+15	5	cy. of	Riprap	@	\$6.42	per c.y. =	\$32.10		
						TOTAL ROCK				\$37,713.09
SPECIAL PROJECTS										
Construct stockpile site at station 68+00 -			3.00	hours @	\$130.00	per hour		\$390.00		
Construct MC OHV Filter @ station 68+00 -			1.00	@	\$145.00	each		\$145.00		
Remove log fill @ stations 40+50, 49+10			31.00	hours @	\$145.00	per hour		\$4,495.00		
Grade and shape road -			68.00	stations @	\$15.50	per station		\$1,054.00		
Roll subgrade w/ vibratory roller prior to rocking -			68.00	stations @	\$13.20	per station		\$897.60		
Remove large stumps -			15.00	lump sum @	\$130.00			\$1,950.00		
Remove culverts from state lands			4.00	@	\$485.00	total		\$485.00		
Grass seed and fertilize -			2.42	acres @	\$220.00	per acre		\$532.40		
Mulching -			1.561	acres @	\$600.00	per acre		\$933.91		
					TOTAL SPECIAL PROJECTS				\$10,882.91	
GRAND TOTAL									\$73,650.80	

SUMMARY OF CONSTRUCTION COST

Sale:	Fire Mole	Road:	C to D
Construction -	0+00 stations 0.00 miles	Reconstruction -	12+00 stations 0.23 miles
 CLEARING AND GRUBBING - Scattering		0.390 acres @	\$980.00 per acre = \$382.20 TOTAL CLEARING AND GRUBBING
			\$382.20
 EXCAVATION - Road Earthwork		12.00 sta. @	\$120.00 per sta. = \$1,440.00 TOTAL EXCAVATION
			\$1,440.00
 ROCK 0+00 to 12+00	621 cy. of Crushed	@	\$15.29 per c.y. = \$9,495.09
Junction Rock 0+00	40 cy. of Crushed	@	\$15.19 per c.y. = \$607.60
			TOTAL ROCK
			\$10,102.69
 SPECIAL PROJECTS			
Construct waste areas -		6.00 hours @	\$130.00 per hour \$780.00
Grade and shape road -		12.00 stations @	\$15.50 per station \$186.00
Roll subgrade w/ vibratory roller prior to rocking -		12.00 stations @	\$13.20 per station \$158.40
Grass seed and fertilize -		0.28 acres @	\$220.00 per acre \$61.60
Mulching -		0.275 acres @	\$600.00 per acre \$165.00
			TOTAL SPECIAL PROJECTS
			\$1,351.00
		GRAND TOTAL	\$13,275.89

SUMMARY OF CONSTRUCTION COST

Sale:	Fire Mole				Road:	E to F			
Construction -	$\frac{23+00}{0.44}$ stations miles				Improvement -	$\frac{0+00}{0.00}$ stations miles			
CLEARING AND GRUBBING -									
Widening				0.115 acres @	\$660.00 per acre =			\$75.90	
Scattering				2.110 acres @	\$980.00 per acre =			\$2,067.80	
								TOTAL CLEARING AND GRUBBING	\$2,143.70
EXCAVATION -									
Road Earthwork				15.50 sta. @	\$140.00 per sta. =			\$2,170.00	
Road Earthwork Full bench incl endhaul	0+00 to 3+75			3.75 sta. @	\$2,338.00 per sta. =			\$8,767.50	
Road Earthwork Full bench incl endhaul	3+75 to 7+50			3.75 sta. @	\$684.00 per sta. =			\$2,565.00	
Widening				334 cy. @	\$1.40 per c.y. =			\$467.60	
								TOTAL EXCAVATION	\$13,970.10
ENDHAUL -									
Widening	7+50	to	10+00	334 cy. @	\$1.48 per c.y. =			\$494.32	
Spread & compact				334 cy. @	\$0.25 per c.y. =			\$83.50	
								TOTAL ENDHAUL	\$577.82
ROCK									
0+00 to	23+00	789	cy. of	Crushed	@	\$15.92 per c.y. =		\$12,560.88	
Junction Rock	0+00	80	cy. of	Crushed	@	\$13.86 per c.y. =		\$1,108.80	
Landing Rock	23+00	50	cy. of	Crushed	@	\$16.12 per c.y. =		\$806.00	
								TOTAL ROCK	\$14,848.28
SPECIAL PROJECTS									
Construct MC OHV Filter @ station 0+00				1.00 @	\$145.00 each			\$145.00	
Grade and shape road -				23.00 stations @	\$15.50 per station			\$356.50	
Roll subgrade w/ vibratory roller prior to rocking -				23.00 stations @	\$13.20 per station			\$303.60	
Remove large stumps -				1.00 lump sum @	\$130.00			\$130.00	
Grass seed and fertilize -				1.60 acres @	\$220.00 per acre			\$352.00	
Mulching -				0.528 acres @	\$600.00 per acre			\$316.80	
								TOTAL SPECIAL PROJECTS	\$1,603.90
GRAND TOTAL									\$33,143.80

SUMMARY OF CONSTRUCTION COST

Sale:	<u>Fire Mole</u>	<u>0+00</u>	<u>stations</u>	<u>0+00</u>	<u>stations</u>
Construction -	<u>15+70</u>	<u>0.30</u>	<u>miles</u>	<u>0.00</u>	<u>miles</u>
CLEARING AND GRUBBING - Scattering	1.440	acres	@	\$980.00	per acre = <u>\$1,411.20</u>
					TOTAL CLEARING AND GRUBBING
					\$1,411.20
EXCAVATION - Road Earthwork	15.70	sta.	@	\$120.00	per sta. = <u>\$1,884.00</u>
					TOTAL EXCAVATION
					\$1,884.00
SPECIAL PROJECTS					
Grade and shape road -	15.70	stations	@	\$15.50	per station
Roll subgrade w/ vibratory roller prior to rocking -	15.70	stations	@	\$13.20	per station
Remove large stumps -	1.00	lump sum	@	\$130.00	
Grass seed and fertilize -	1.01	acres	@	\$220.00	per acre
Mulching -	0.360	acres	@	\$600.00	per acre
					TOTAL SPECIAL PROJECTS
					\$1,018.79
GRAND TOTAL					\$4,313.99

SUMMARY OF CONSTRUCTION COST

Sale:	Fire Mole		Road: I to J	
Construction -	0+00 stations 0.00 miles		Improvement -	46+10 stations 0.87 miles
CLEARING AND GRUBBING -				
Scattering	0.420 acres @		\$980.00 per acre =	\$411.60
			TOTAL CLEARING AND GRUBBING	\$411.60
EXCAVATION -				
Road Earthwork	46.10 sta. @		\$45.00 per sta. =	\$2,074.50
			TOTAL EXCAVATION	\$2,074.50
CULVERTS - MATERIALS & INSTALLATION				
<u>Culverts</u>				
	20 LF of 18"	\$340.00	24 LF of 24"	\$576.00
	20 LF of 30"	\$660.00	0 LF of 36"	\$0.00
	0 LF of 42"	\$0.00	0 LF of 48"	\$0.00
	0 LF of 54"	\$0.00	0 LF of 60"	\$0.00
	0 LF of 66"	\$0.00	0 LF of 72"	\$0.00
		<u>\$1,000.00</u>		<u>\$576.00</u>
<u>Half Rounds</u>				
	0 LF of 21"	\$0.00	0 LF of 30"	\$0.00
	0 LF of 36"	\$0.00	0 LF of 42"	\$0.00
		<u>\$0.00</u>		<u>\$0.00</u>
<u>Culvert Stakes & Markers</u>				
	0 stakes	\$0.00		
	3 markers	\$24.00		
		<u>\$24.00</u>		
			TOTAL CULVERTS	\$1,600.00
ROCK				
Rolling Dip Rock	430 cy. of	Crushed	@ \$15.92 per c.y. =	\$6,845.60
Spot Rock 22+30 to 25+30 and 29+65 to 35+25	160 cy. of	Crushed	@ \$15.92 per c.y. =	\$2,547.20
OHV Filters	60 cy. of	Riprap	@ \$16.57 per c.y. =	\$994.20
			TOTAL ROCK	\$10,387.00
MOVE IN				
Small Trail Equipment			\$1,341.91	
			TOTAL MOVE IN	\$1,341.91
SPECIAL PROJECTS				
Construct 4WD OHV filters @ stations 0+00 and 46+10 -	2.00 @		\$145.00 each	\$290.00
Grade and shape road -	46.10 stations @		\$15.50 per station	\$714.55
Construct rolling dip -	43.00 @		\$65.00 each	\$2,795.00
Reload rock for I to J -	590 cy. of	Crushed	@ \$0.75 per c.y. =	\$442.50
Remove dirt from log fill on vacated trail segment -	3.00 hours @		\$100.00 per hour	\$300.00
Remove culverts from state lands	3.00 @		\$445.40 total	\$445.40
Grass seed and fertilize -	1.06 acres @		\$220.00 per acre	\$233.20
Mulching -	1.058 acres @		\$600.00 per acre	\$634.80
			TOTAL SPECIAL PROJECTS	\$5,855.45
GRAND TOTAL				\$21,670.46

SUMMARY OF CONSTRUCTION COST

Sale:	FIRE MOLE	Road:	K Heliport
Construction -	<u>0+00</u> stations <u>0.00</u> miles	Improvement -	<u>0+00</u> stations <u>0.00</u> miles
CLEARING AND GRUBBING -			
Piling	0.09 acres @	\$910.00 per acre =	<u>\$81.90</u>
		TOTAL CLEARING AND GRUBBING	\$81.90
EXCAVATION -			<u>TOTAL EXCAVATION</u>
			\$0.00
ENDHAUL -			<u>TOTAL ENDHAUL</u>
			\$0.00
CULVERTS - MATERIALS & INSTALLATION	\$0.00		<u>TOTAL CULVERTS</u>
			\$0.00
ROCK			
Heliport	Point K	280 cy. of	Crushed
		@	\$15.90 per c.y. =
			<u>\$4,452.00</u>
			TOTAL ROCK
			\$4,452.00
SPECIAL PROJECTS			
Construct 100' diameter Heliport -	2.50 hours @	\$130.00 per hour	\$325.00
Grade and shape road -	1.00 stations @	\$15.50 per station	\$15.50
Roll subgrade w/ vibratory roller prior to rocking -	1.00 stations @	\$13.20 per station	\$13.20
Grass seed and fertilize -	0.05 acres @	\$220.00 per acre	\$11.00
			<u>TOTAL SPECIAL PROJECTS</u>
			\$364.70
		GRAND TOTAL	\$4,898.60

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Crushing Pit	Location:	NW1/4 SE1/4 Sec.10, T1S, R7W, W.M.
Sale:	Fire Mole	Road:	5298 c.y.
Swell:	1.40	Stockpile:	500 c.y.
Shrinkage:	1.16	Total Truck Loads:	5798 c.y.
Drill Pct.:	100%	In Place Total:	4141 c.y.

Pit Development & Cleanup including Clearing and grubbing of Waste Area @ adjacent to pit, place overburden in Waste Area, spread and compact.	\$10,970.40
Drill & Shoot:	\$2.50 /cu.yd. x 4141 cu.yds. = \$10,352.50
Push Rock:	\$0.60 /cu.yd. x 5798 cu.yds. = \$3,478.80
Load Crusher:	\$0.60 /cu.yd. x 5798 cu.yds. = \$3,478.80
Crush 4"-0" Rock	\$2.50 /cu.yd. x 5798 cu.yds. = \$14,495.00
Load Dump Truck:	\$0.70 /cu.yd. x 5798 cu.yds. = \$4,058.60

Subtotal \$46,834.10

Move In/Set-up Crusher	1	@	\$3,000.00	=	\$3,000.00
Move In and set up Drill and Compressor	1	@	\$709.81	=	\$709.81
Move in Roller and Compactor	0	@	\$709.81	=	\$0.00
Move in Grader	0	@	\$209.27	=	\$0.00
Move in D-8	1	@	\$1,093.85	=	\$1,093.85
Move in Loader	1	@	\$931.34	=	\$931.34
Move in Excavator	1	@	\$1,209.80	=	\$1,209.80
Move in Trucks	4	@	\$237.05	=	\$948.20
Move in Water Truck	1	@	\$278.63	=	\$278.63
					Subtotal \$8,171.63

TOTAL PRODUCTION COSTS \$55,005.73

Base Cost= \$9.49 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 to B	3.99	2.45	9.49	15.93	2253	35,890.29
A to B Energy Dissipator	4.32	1.40	0.70	6.42	5	32.10
C to D	3.35	2.45	9.49	15.29	621	9,495.09
C to D Junction Rock	3.25	2.45	9.49	15.19	40	607.60
E to F	3.98	2.45	9.49	15.92	789	12,560.88
E to F Junction Rock	3.77	0.60	9.49	13.86	80	1,108.80
E to F Landing Rock	4.18	2.45	9.49	16.12	50	806.00
I to J Rolling Dip Rock	5.68	0.75	9.49	15.92	430	6,845.60
I to J Spot Rock	5.68	0.75	9.49	15.92	160	2,547.20
I to J OHV Filters	5.68	1.40	9.49	16.57	60	994.20
K Heliport Heliport	0.93	0.90	9.49	11.32	280	3,169.60
Stockpile	4.41	1.00	9.49	14.90	500	7,450.00
				Total C.Y.	5298	Sub Total
						81,879.96

TOTAL ROCKING COSTS 81,879.96

Move-In Calculations

Sale: Fire Mole

LOWBOY HAUL (Round Trip)		
DIST. (mi)	ROADWAY	AVE SPEED (mph)
20.0	Pavement	45
20.0	Main Lines	7
6.0	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	Grader	\$941.43		\$3.65	0.00	0.00	0	\$0.00	\$941.43
1	Roller (smooth/grid) & Compactor	\$709.81		\$5.00	0.00	0.00	0	\$0.00	\$709.81
1	Excavator (Large)	\$1,220.02	1	\$44.80	0.00	0.00	0	\$0.00	\$1,220.02
1	Tractor (D8)	\$1,114.30	2	\$15.10	0.00	0.00	0	\$0.00	\$1,114.30
2	Dump Truck (10 cy +)	\$582.22		\$2.85	0.00	0.00	0	\$0.00	\$582.22
1	Water Truck (1500 Gal)	\$237.05		\$2.85	0.00	0.00	0	\$0.00	\$237.05
2	Small Equip. (excavator, dump truck)	\$891.63		\$2.85	0.00	0.00	0	\$0.00	\$891.63
TOTAL MOVE-IN COSTS:									\$5,696.46



CRUISE REPORT

Fire Mole

1. **Type of Sale:** Partial Cut – Thin Conifer, Modified Clear-Cut to remove Alder and Douglas-fir– recovery.
2. **Legal Description:** Portions of Sections 32 and 33, T1N, R7W, and Sections 4 and 5, T1S, R7W, W.M., Tillamook County, Oregon.
3. **Sale Acreage:** The sale boundary was plotted on a digital orthophotograph and the acreage was calculated with GIS.

Area	Harvest Type	Sale	Net
1	Partial Cut	140	132
2	Partial Cut	26	26
3	Nonreq. PC.	20	20
4	Clear-Cut	126	122
	Total	312	300

Sale Acres

Area within the Timber Sale Boundary signs

Net acres for calculating the advertised volume

Sale acres, areas of low stocking, less roads, and less riparian areas classified as Special Stewardship in LMCS inside the sale boundary.

4. **Cruising Procedures:**
 - A. **Cruise Method:** A total of 61 plots were taken. Cruise lines and plots were placed to obtain representative sampling intensities throughout the three sale areas on a North/South grid. All trees were recorded by species, merchantable height, form, and diameter class. Diameters were measured to the nearest inch and heights to the nearest foot. Conifers less than 8" DBH and hardwood less than 10" DBH were not sampled.
 - B. **Plot size:** All plots were variable radius full point plots. A BAF of 40 was used in all areas. The point of tree observation was 4.5 feet.
 - C. **Grading System:** Tree heights were measured to a 6" merchantable top for Douglas-fir, 7" for Hemlock, and 8" for hardwoods outside bark. Conifer was graded using Columbia River rules favoring a 40' log. Alder was graded to the top end diameter for determining sort while still favoring a 40' log. Hardwood grades were determined as 2S equals 12" and greater, 3S equals 10" and 11", and 4S equals 8" and 9".

D. **Defect and Breakage:** A 5% defect and breakage reduction was applied to conifers and a 10% reduction to hardwood volumes for hidden defect. This was in addition to visual defect deducted during the cruise.

D. **Cruiser Names / Dates:** Sale Prep. Staff, September 2006

5. **Computation Procedures:** Plot data was entered into SuperAce for computation of stand tables. Take and leave trees were determined by reviewing diameters and defect on each plot and SuperAce was rerun to compute basal area, V-BAR, stand tables and diameters. Each Area individually computed volume the summarized for total sale volume. This data was entered into a volume summary worksheet to compute sale volumes.

The cruise had a coefficient of variation of 65.2% and a standard error of 13.3% for the net board feet/acre in Area 1; and 17.8% and 16.7% in Area 2; and 66.1% and 32.8% in Area 3; and 72.0% and 13.6% in Area 4, respectfully. Since it is an area of non-required thinning, Area 3 is not included in the final "total" volume summary. The statistics for the entire timber sale were 66.2% coefficient of variation and 8.5% standard error.

6. **Timber Description:** The sale is made up of 2 age classes of Douglas-fir dominated conifer. Areas 1 and 4 are primarily 40-50 year old Douglas-fir with a small component of Hemlock. Areas 2 and 3 are primarily older and larger Douglas-fir with some Hemlock present in Area 3. Red alder is scattered throughout the sale with concentration in the riparian areas. Red alder within and adjacent to riparian areas was not sprayed. Alder on the upland portions of the sale area was sprayed in the 1970's. This resulted in short boles and multiple tops.

7. **Revenue Distribution:**

100% FDF

Tax Code: 9-2

Deed No. 179, 181, 188, 189

8. **Appendices:**

- Stand Table
- Log Stock Tables
- Volume Summary
- Logging Plan

TQ		TSTNDSUM															
Stand Table Summary																	
Project FIREMOLE																	
T01N R01W S01 T0001										T01N R01W S01 T0001							
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page:	1								
01N	01W	01	AREA 1	0001	132.00	25	118	Date:	06/05/201								
									Time:	8:44:43AM							
Spc	S T	Sample			Av			Average Log		Net			Totals				
		DBH	Trees	16'	Ht	Trees/	BA/	Logs	Net	Net	Tons/	Cu.Ft.	Net	Tons	Cunits	MBF	
					Acres	Acres	Acres	Cu.Ft.	Bd.Ft.	Acres	Acres	Acres					
DL		11	2	84	42	4.555	3.20	4.55	10.0	35.0	1.26	46	159	166	60	21	
DL		12	2	81	42	4.398	3.20	4.40	11.7	35.0	1.42	51	154	187	68	20	
DL		13	2	82	72	3.317	3.20	6.63	12.3	45.0	2.25	82	299	297	108	39	
DL		14	3	85	73	4.559	4.80	7.53	16.7	49.7	3.46	126	375	457	166	49	
DL		15	1	80	77	1.237	1.60	1.24	31.5	80.0	1.07	39	99	142	51	13	
DL		16	2	82	68	2.250	3.20	3.35	22.8	70.0	2.11	77	235	278	101	31	
DL		17	5	81	71	5.120	8.00	8.19	24.9	90.0	5.63	204	737	743	270	97	
DL		18	8	83	79	7.472	12.80	14.02	26.8	85.9	10.35	376	1,205	1,366	496	159	
DL		19	3	83	88	2.482	4.80	4.96	28.2	94.7	3.85	140	470	509	185	62	
DL		20	4	78	89	2.995	6.40	5.99	34.5	104.9	5.67	206	628	748	272	83	
DL		21	3	83	69	1.971	4.80	2.64	44.3	120.5	3.22	117	318	425	154	42	
DL		22	3	82	79	1.824	4.80	3.65	39.7	126.1	3.98	145	460	526	191	61	
DL		24	3	85	105	1.554	4.80	3.61	50.4	192.4	5.01	182	695	661	240	92	
DL		25	2	87	96	.939	3.20	2.35	48.8	200.0	3.15	115	469	416	151	62	
DL		26	1	84	103	.427	1.60	.85	71.9	275.0	1.69	61	235	223	81	31	
DL		27	2	83	88	.829	3.20	2.07	44.5	168.3	2.53	92	348	334	122	46	
DL		29	2	87	112	.688	3.20	1.72	75.1	333.9	3.56	129	575	469	171	76	
DL		30	3	82	85	.987	4.80	2.30	65.3	245.9	4.13	150	566	545	198	75	
DL		39	1	87	94	.195	1.60	.39	147.4	650.0	1.58	57	253	209	76	33	
DL	Totals		52	83	72	47.800	83.20	80.46	29.8	102.9	65.92	2,396	8,281	8,701	3,163	1,093	
DF		9	2	82	68	7.576	3.20	7.58	7.8	35.0	1.68	59	265	221	78	35	
DF		10	3	84	58	8.642	4.80	8.64	10.4	36.7	2.56	90	317	338	119	42	
DF		11	2	82	70	5.176	3.20	5.18	13.6	40.0	2.01	71	207	266	93	27	
DF		12	5	85	69	10.101	8.00	14.11	12.8	44.2	5.16	181	623	682	239	82	
DF		13	2	84	66	3.394	3.20	3.39	21.7	65.1	2.10	74	221	277	97	29	
DF		14	5	83	69	7.573	8.00	13.56	14.7	52.1	5.70	200	707	752	264	93	
DF		15	1	84	80	1.304	1.60	2.61	16.5	55.0	1.23	43	143	162	57	19	
DF		16	2	85	72	2.278	3.20	4.56	18.3	70.0	2.38	84	319	314	110	42	
DF		17	2	80	71	1.995	3.20	2.99	30.0	83.3	2.55	90	249	337	118	33	
DF		18	1	80	103	.926	1.60	1.85	29.6	95.0	1.56	55	176	206	72	23	
DF		19	2	85	82	1.652	3.20	3.30	29.8	102.8	2.80	98	339	370	130	45	
DF		20	2	86	104	1.445	3.20	3.62	32.8	128.1	3.38	118	463	446	156	61	
DF		21	1	86	102	.659	1.60	1.32	45.2	175.0	1.70	60	231	224	79	30	
DF		22	2	83	80	1.201	3.20	2.40	39.1	125.1	2.68	94	301	353	124	40	
DF		23	1	83	75	.545	1.60	1.09	44.2	130.0	1.37	48	142	181	64	19	
DF		26	2	85	94	.855	3.20	1.71	65.8	250.4	3.21	113	428	423	149	57	
DF	Totals		35	84	70	55.321	56.00	77.90	18.9	65.9	42.07	1,476	5,131	5,553	1,948	677	
RA		10	2	80	21	5.809	3.20	5.81	5.6	20.0	.89	32	116	118	43	15	
RA		11	1	80	30	2.339	1.60	2.34	8.1	30.0	.52	19	70	69	25	9	
RA		13	2	80	45	3.482	3.20	3.48	15.3	45.3	1.46	53	158	193	70	21	
RA		14	3	80	43	4.491	4.80	4.49	17.8	53.3	2.19	80	239	289	105	32	
RA		17	2	83	38	2.091	3.20	2.09	25.5	64.9	1.47	53	136	194	70	18	
RA		18	3	80	54	2.821	4.80	3.73	26.4	85.3	2.70	98	318	357	130	42	
RA		19	1	79	41	.830	1.60	.83	36.0	60.0	.82	30	50	108	39	7	
RA	Totals		14	80	37	21.862	22.40	22.77	16.1	47.7	10.06	366	1,087	1,328	483	143	
RL		13	3	79	43	5.268	4.80	5.27	15.0	46.9	2.17	79	247	286	104	33	
RL		14	2	80	66	2.849	3.20	2.85	29.2	80.1	2.29	83	228	302	110	30	
RL		15	1	80	53	1.270	1.60	1.27	26.0	60.0	.91	33	76	120	44	10	
RL		16	1	80	61	1.118	1.60	1.12	37.5	90.0	1.15	42	101	152	55	13	
RL		18	1	79	42	.895	1.60	.90	32.8	60.0	.81	29	54	107	39	7	

Stand Table Summary

Project **FIREMOLE**

T01N R01W S01 T0001

T01N R01W S01 T0001

Twp Rge Sec Tract
01N 01W 01 AREA 1

Type Acres Plots Sample Trees
0001 132.00 25 118

Page: 2
 Date: 06/05/20
 Time: 8:44:43AM

S Spc T	Sample DBH	FF Trees	Av Ht 16'	Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals			
								Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF	
RL	19	2	80	51	1.645	3.20	1.64	44.5	93.9	2.01	73	155	265	97	20	
RL	20	1	79	22	.741	1.60	.74	25.2	80.0	.51	19	59	68	25	8	
RL	22	1	79	24	.601	1.60	.60	31.4	40.0	.52	19	24	68	25	3	
RL	Totals		12	79	49	14.386	19.20	14.39	26.2	65.6	10.37	377	943	1,368	498	125
WL	26	1	87	93	.434	1.60	.87	69.5	260.0	1.93	60	226	255	80	30	
WL	27	2	87	86	.820	3.20	1.64	70.5	269.5	3.70	116	442	488	153	58	
WL	Totals		3	87	88	1.254	4.80	2.51	70.1	266.2	5.63	176	668	743	232	88
WH	22	1	87	91	.635	1.60	1.27	45.2	170.0	1.84	57	216	242	76	28	
WH	24	1	87	80	.518	1.60	1.04	50.4	195.0	1.67	52	202	220	69	27	
WH	Totals		2	87	86	1.153	3.20	2.31	47.5	181.2	3.50	110	418	463	145	55
Totals		118	82	64	141.777	188.80	200.33	24.5	82.5	137.54	4901	16,528	18,156	6,469	2,182	

TC TSTNDSUM

Stand Table Summary

Project **FIREMOLE**

T01N R01W S01 T0002

T01N R01W S01 T0002

Twp Rge Sec Tract
01N 01W 01 AREA 2

Type Acres Plots Sample Trees
0002 26.00 2 14

Page: 1
 Date: 06/05/2006
 Time: 8:45:03AM

Spc	T	DBH	Sample Trees	Av FF 16'	Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals			
									Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF	
DL		20	1	84	86	8.898	20.00	17.80	36.6	115.0	17.90	651	2,047	466	169	53	
DL		22	1	86	90	7.508	20.00	15.02	45.3	165.0	18.70	680	2,478	486	177	64	
DL		23	2	84	83	13.747	40.00	27.49	44.5	135.0	33.64	1,224	3,712	875	318	97	
DL		24	1	87	78	6.640	20.00	13.28	47.4	160.0	17.30	629	2,125	450	164	55	
DL		26	1	86	86	5.301	20.00	10.60	60.5	225.0	17.65	642	2,386	459	167	62	
DL		27	1	84	88	4.993	20.00	9.99	66.4	225.0	18.23	663	2,247	474	172	58	
DL		32	1	86	90	3.626	20.00	7.25	95.2	395.0	18.99	691	2,865	494	180	74	
DL		Totals		8	85	85	50.714	160.00	101.43	51.1	176.1	142.42	5,180	17,858	3,703	1,347	464
DF		16	1	83	59	15.068	20.00	15.07	29.9	70.0	12.84	450	1,055	334	117	27	
DF		19	1	86	80	10.158	20.00	20.32	29.0	105.0	16.82	590	2,133	437	153	55	
DF		20	2	84	77	18.435	40.00	27.88	38.9	116.3	30.92	1,086	3,242	804	282	84	
DF		21	1	85	78	8.726	20.00	17.45	35.2	115.0	17.51	614	2,007	455	160	52	
DF		22	1	85	80	7.308	20.00	14.62	42.8	135.0	17.81	625	1,973	463	162	51	
DF		Totals		6	84	74	59.695	120.00	95.33	35.3	109.2	95.89	3,365	10,410	2,493	875	271
Totals				14	85	79	110.409	280.00	196.76	43.4	143.7	238.31	8545	28,268	6,196	2,222	735

Stand Table Summary																
TC TSTNDSUM																
Project FIREMOLE																
T01N R01W S01 T0003										T01N R01W S01 T0003						
Twp Rge Sec Tract				Type		Acres		Plots		Sample Trees		Page: 1				
01N 01W 01 AREA 3				0003		20.00		5		18		Date: 06/05/2006				
Time: 8:45:21AM																
Spc	T	DBH	Sample Trees	FF 16'	Av Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals		
									Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF
DF		11	1	81	66	11.693	8.00	11.69	15.9	40.0	5.31	186	468	106	37	9
DF		14	1	82	67	7.173	8.00	7.17	26.7	70.0	5.46	192	502	109	38	10
DF		19	1	81	91	4.021	8.00	8.04	32.7	105.0	7.48	263	844	150	53	17
DF		21	1	84	96	3.390	8.00	6.78	41.1	130.0	7.94	279	881	159	56	18
DF		22	1	85	73	3.003	8.00	6.01	36.9	110.0	6.29	222	661	126	44	13
DF		24	1	84	105	2.568	8.00	5.14	58.6	215.0	8.58	301	1,104	172	60	22
DF	Totals		6	82	76	31.848	48.00	44.83	32.2	99.5	41.07	1,442	4,460	821	288	89
DL		24	1	85	99	2.484	8.00	4.97	57.9	210.0	7.91	288	1,043	158	58	21
DL		25	1	82	99	2.292	8.00	4.58	60.6	210.0	7.64	278	962	153	56	19
DL		30	1	79	91	1.685	8.00	3.37	80.8	260.0	7.49	272	876	150	54	18
DL		33	1	80	105	1.363	8.00	4.09	75.0	293.3	8.44	307	1,200	169	61	24
DL	Totals		4	82	98	7.824	32.00	17.01	67.3	239.9	31.48	1,145	4,082	630	229	82
RL		10	1	80	26	14.668	8.00	14.67	5.4	20.0	2.16	79	293	43	16	6
RL		12	3	80	46	29.899	24.00	29.90	14.3	42.9	11.77	428	1,282	235	86	26
RL		14	1	79	68	7.930	8.00	7.93	24.9	100.0	5.44	198	793	109	40	16
RL		17	1	80	77	5.075	8.00	10.15	23.7	85.0	6.62	241	863	132	48	17
RL		18	1	79	51	4.477	8.00	4.48	42.9	80.0	5.28	192	358	106	38	7
RL		24	1	79	50	2.656	8.00	2.66	70.0	80.0	5.10	186	212	102	37	4
RL	Totals		8	80	47	64.706	64.00	69.78	19.0	54.5	36.37	1,323	3,801	727	265	76
Totals			18	81	60	104.378	144.00	131.62	29.7	93.8	108.92	3910	12,344	2,178	782	247

TC TSTNDSUM		Stand Table Summary														
Project FIREMOLE																
T01N R01W S01 T0004											T01N R01W S01 T0004					
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees			Page:	1					
01N	01W	01	AREA 4	0004	122.00	29	130			Date:	06/05/201					
										Time:	8:45:38AM					
S Spec	T	Sample		Av	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals			
		DBH	Trees	FF 16'				Ht Tot	Net Cu.Ft.				Net Bd.Ft.	Tons	Cunits	MBF
DF		9	5	82	40	15.571	6.90	15.57	5.8	26.1	2.59	91	406	316	111	50
DF		10	2	85	60	5.217	2.76	5.22	10.1	40.0	1.50	53	209	183	64	25
DF		11	5	83	56	10.672	6.90	12.69	10.8	36.4	3.89	137	462	475	167	56
DF		12	2	85	75	3.551	2.76	5.22	12.6	47.2	1.87	66	246	229	80	30
DF		13	1	88	69	1.544	1.38	3.09	10.9	40.0	.97	34	123	118	41	15
DF		14	5	86	78	6.313	6.90	12.63	15.1	55.8	5.45	191	704	664	233	86
DF		15	3	84	78	3.391	4.14	6.78	17.5	60.0	3.37	119	407	412	145	50
DF		16	6	84	74	5.843	8.28	10.71	20.6	69.0	6.27	220	739	765	269	90
DF		17	3	86	60	2.587	4.14	3.48	23.2	87.6	2.30	81	305	281	99	37
DF		18	3	84	92	2.316	4.14	4.63	29.3	96.7	3.86	136	448	471	165	55
DF		19	1	85	101	.701	1.38	1.40	36.8	120.0	1.47	52	168	179	63	21
DF		20	4	86	94	2.555	5.52	5.11	36.4	131.0	5.31	186	669	647	227	82
DF		21	1	86	80	.568	1.38	1.14	35.7	115.0	1.15	41	131	141	49	16
DF		22	6	85	94	3.108	8.28	6.22	46.4	165.2	8.22	289	1,027	1,003	352	125
DF		23	3	86	83	1.439	4.14	2.41	53.8	186.5	3.70	130	450	451	158	55
DF		24	2	83	79	.897	2.76	1.34	59.9	186.5	2.29	80	251	279	98	31
DF		25	5	86	89	2.011	6.90	4.02	56.4	202.0	6.45	227	812	787	276	99
DF		26	2	90	117	.760	2.76	2.28	50.6	235.2	3.29	115	536	401	141	65
DF		27	1	84	78	.360	1.38	.72	58.3	195.0	1.20	42	140	146	51	17
DF	Totals	60	84	66		69.402	82.76	104.66	21.9	78.7	65.17	2,287	8,234	7,951	2,790	1,005
DL		27	4	87	98	1.370	5.52	2.74	73.3	282.5	5.52	201	774	674	245	94
DL		28	3	86	107	.987	4.14	2.63	61.3	253.9	4.43	161	667	540	196	81
DL		29	1	84	99	.307	1.38	.61	80.8	300.0	1.36	50	184	166	61	22
DL		30	2	86	101	.570	2.76	1.14	91.1	387.0	2.85	104	441	348	127	54
DL		31	4	85	100	1.065	5.52	2.66	75.9	313.8	5.55	202	834	677	246	102
DL		33	2	83	96	.463	2.76	1.16	82.8	330.0	2.64	96	383	322	117	47
DL		35	3	85	80	.625	4.14	1.25	102.8	396.1	3.54	129	495	431	157	60
DL	Totals	19	86	98		5.386	26.21	12.19	77.3	310.0	25.89	942	3,778	3,159	1,149	461
RA		10	3	80	37	7.296	4.14	7.30	5.8	20.0	1.16	42	146	142	52	18
RA		11	8	80	46	17.075	11.03	17.08	8.9	28.2	4.15	151	482	506	184	59
RA		12	6	80	38	10.568	8.28	10.57	11.0	36.6	3.21	117	387	392	142	47
RA		13	1	80	23	1.496	1.38	1.50	11.0	30.0	.44	16	45	54	20	5
RA		14	6	79	66	7.582	8.28	7.53	23.9	75.3	4.95	180	567	604	220	69
RA		15	9	79	51	10.231	12.41	12.48	19.1	60.5	6.55	238	755	799	291	92
RA		16	7	80	61	6.981	9.66	6.98	32.1	94.0	6.16	224	656	752	274	80
RA		17	3	81	51	2.555	4.14	2.55	33.0	79.5	2.31	84	203	282	103	25
RA		18	3	80	49	2.334	4.14	2.33	36.2	86.6	2.33	85	202	284	103	25
RA		19	1	80	47	.686	1.38	.69	44.0	80.0	.84	30	55	102	37	7
RA		20	1	80	56	.620	1.38	.62	55.1	90.0	.94	34	56	115	42	7
RA	Totals	48	80	48		67.424	66.21	69.62	17.3	51.0	33.04	1,202	3,554	4,031	1,467	434
WL		12	1	84	24	1.912	1.38	1.91	8.0	20.0	.49	15	38	59	19	5
WL		20	1	88	73	.645	1.38	1.29	31.7	110.0	1.31	41	142	160	50	17
WL	Totals	2	85	36		2.557	2.76	3.20	17.5	56.3	1.80	56	180	219	68	22
BM		20	1	80	59	.632	1.38	.63	56.9	120.0	.95	36	76	116	44	9
BM	Totals	1	80	59		.632	1.38	.63	56.9	120.0	0.95	36	76	116	44	9
Totals		130	82	58		145.402	179.31	190.30	23.8	83.1	126.85	4523	15,821	15,476	5,518	1,930

Log Stock Table - MBF

T01N R01W S01 Ty0001
THRU
T01N R01W S01 Ty0004

Project: FIREMOLE
Acres 300.00

Spp	S T	So Gr rt de	Log Len	Gross MBF	Def %	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches										
								2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39
DF		DO 2M	32	15		15	.7					15						
DF		DO 2M	40	597		595	29.2					213	246	136				
DF		DO 3M	21	14		14	.7					14						
DF		DO 3M	22	4		4	.2		4									
DF		DO 3M	24	7		7	.3					7						
DF		DO 3M	25	1		1	.1		1									
DF		DO 3M	28	3		3	.1			3								
DF		DO 3M	32	193	2.2	189	9.2			43	92	53						
DF		DO 3M	37	10		10	.5					10						
DF		DO 3M	38	11		11	.5				11							
DF		DO 3M	40	760		755	37.0			143	185	328	99					
DF		DO 4M	15	3		3	.1		3									
DF		DO 4M	16	21		21	1.0		21									
DF		DO 4M	18	14		14	.7		14									
DF		DO 4M	19	27		27	1.3		27									
DF		DO 4M	20	8		8	.4		8									
DF		DO 4M	21	22		22	1.1		19	4								
DF		DO 4M	22	10		10	.5		8	2								
DF		DO 4M	23	3		3	.2		3									
DF		DO 4M	24	59		59	2.9		51	8								
DF		DO 4M	25	15		15	.7		15									
DF		DO 4M	26	15		15	.7		13	2								
DF		DO 4M	27	18		18	.9		18									
DF		DO 4M	29	19		19	.9		19									
DF		DO 4M	30	8		8	.4		8									
DF		DO 4M	31	14		14	.7		14									
DF		DO 4M	32	2		2	.1		2									
DF		DO 4M	33	13		13	.6		13									
DF		DO 4M	34	24		24	1.2		24									
DF		DO 4M	35	4		4	.2		4									
DF		DO 4M	36	6		6	.3		6									
DF		DO 4M	37	28		28	1.4		28									
DF		DO 4M	38	18		18	.9		18									
DF		DO 4M	40	87		87	4.3		87									
DF		Totals		2,053		2,042	40.1		429	197	296	404	334	246	136			
DL		DO 2M	12	10		10	.5							10				
DL		DO 2M	20	9	20.0	7	.3							7				

Log Stock Table - MBF

T01N R01W S01 Ty0001
THRU
T01N R01W S01 Ty0004

Project: FIREMOLE
Acres 300.00

Spp	S T	So Gr rt de	Log Len	Gross MBF	Def %	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches											
								2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
DL		DO 4M	35	15		15	.7		15										
DL		DO 4M	36	3		3	.1		3										
DL		DO 4M	40	40	2.5	39	1.9		22			17							
DL		Totals		2,113		2,100	41.2		158	82	191	326	250	226	569	269	30		
WL		DO 2M	40	16		16	14.3					16							
WL		DO 3M	40	80		80	72.5						80						
WL		DO 4M	17	2		2	1.4			2									
WL		DO 4M	20	5		5	4.2		5										
WL		DO 4M	28	2		2	1.5			2									
WL		DO 4M	38	7		7	6.0			7									
WL		Totals		110		110	2.2		5	10		16		80					
WH		DO 3M	40	49		49	88.7						49						
WH		DO 4M	26	2		2	3.7			2									
WH		DO 4M	33	4		4	7.6			4									
WH		Totals		55		55	1.1			6			49						
RA		DO 3M	19	17		17	2.9				17								
RA		DO 3M	20	10		10	1.7					10							
RA		DO 3M	21	8		8	1.4					8							
RA		DO 3M	25	16		16	2.8				16								
RA		DO 3M	26	11		11	1.8				11								
RA		DO 3M	27	10		10	1.8				10								
RA		DO 3M	28	6		6	1.1				6								
RA		DO 3M	29	18		18	3.1					18							
RA		DO 3M	30	18	5.8	17	2.9				17								
RA		DO 3M	32	33		33	5.6				33								
RA		DO 3M	34	7	14.3	6	1.1				6								
RA		DO 3M	35	20		20	3.5				7	13							
RA		DO 3M	36	30		30	5.3					30							
RA		DO 3M	39	21		21	3.7					21							
RA		DO 3M	40	65		65	11.2				65								
RA		DO 4M	12	14		14	2.4				14								
RA		DO 4M	13	14		14	2.4				14								
RA		DO 4M	14	6		6	1.0				6								
RA		DO 4M	15	28		28	4.8				28								
RA		DO 4M	16	36	10.0	32	5.6				32								

S T	So Gr rt de	Log Len	Gross MBF	Def %	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches											
							2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
RA	DO 4M	17	5		5	.9					5							
RA	DO 4M	18	7		7	1.2					7							
RA	DO 4M	19	9		9	1.5					9							
RA	DO 4M	20	33		33	5.8					24	10						
RA	DO 4M	21	5		5	1.0					5							
RA	DO 4M	22	22		22	3.8					9		13					
RA	DO 4M	23	14		14	2.4					14							
RA	DO 4M	24	5		5	.8					5							
RA	DO 4M	25	12		12	2.1					12							
RA	DO 4M	26	12		12	2.1					12							
RA	DO 4M	28	5		5	.8					5							
RA	DO 4M	29	7	20.0	5	.9					5							
RA	DO 4M	31	7		7	1.1					7							
RA	DO 4M	32	11	14.3	9	1.6					9							
RA	DO 4M	33	20		20	3.4					20							
RA	DO 4M	35	11		11	1.9					11							
RA	DO 4M	40	14		14	2.5					14							
RA	Totals		586	1.5	577	11.3					453	93	31					
RL	DO 2M	17	8		8	3.9							8					
RL	DO 3M	31	7		7	3.5					7							
RL	DO 3M	32	14		14	7.1						14						
RL	DO 3M	33	16		16	7.9					16							
RL	DO 3M	34	13		13	6.5					13							
RL	DO 3M	36	16		16	7.7					16							
RL	DO 3M	40	22	2.4	21	10.6					21							
RL	DO 4M	12	6		6	2.9					6							
RL	DO 4M	17	12		12	5.9					12							
RL	DO 4M	18	12	16.5	10	5.0					10							
RL	DO 4M	21	3		3	1.6					3							
RL	DO 4M	26	24		24	11.9					24							
RL	DO 4M	32	8		8	3.9					8							
RL	DO 4M	33	12	14.3	10	5.0					10							
RL	DO 4M	37	7		7	3.6					7							
RL	DO 4M	39	13		13	6.6					13							
RL	DO 4M	40	12		12	6.2					12							
RL	Totals		205	2.1	201	3.9					179	14	8					

Log Stock Table - MBF

T01N R01W S01 Ty0001
THRU
T01N R01W S01 Ty0004

Project: FIREMOLE
Acres 300.00

Spp	S T	So rt	Gr de	Log Len	Gross MBF	Def %	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches										
									2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39
BM		DO	3M	40	9		9	100.0				9							
BM		Totals			9		9	.2				9							
Total		All Species			5,130		5,094	100.0		591	295	1129	837	638	521	785	269	30	

FIRE MOLE

Area 1 Partial Cut						
132 acres						
SPECIES	Basal Area Per Acre	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	56.00	91.60	5.1	673	5%	639
Alder	22.40	48.50	1.1	145	10%	131
W. Hemlock	3.20	130.50	0.4	53	5%	50
TOTAL			6.6	871		820

Area 2 Partial Cut						
26 acres						
SPECIES	Basal Area Per Acre	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	120.00	86.80	10.4	270	5%	257
TOTAL			10.4	270		257

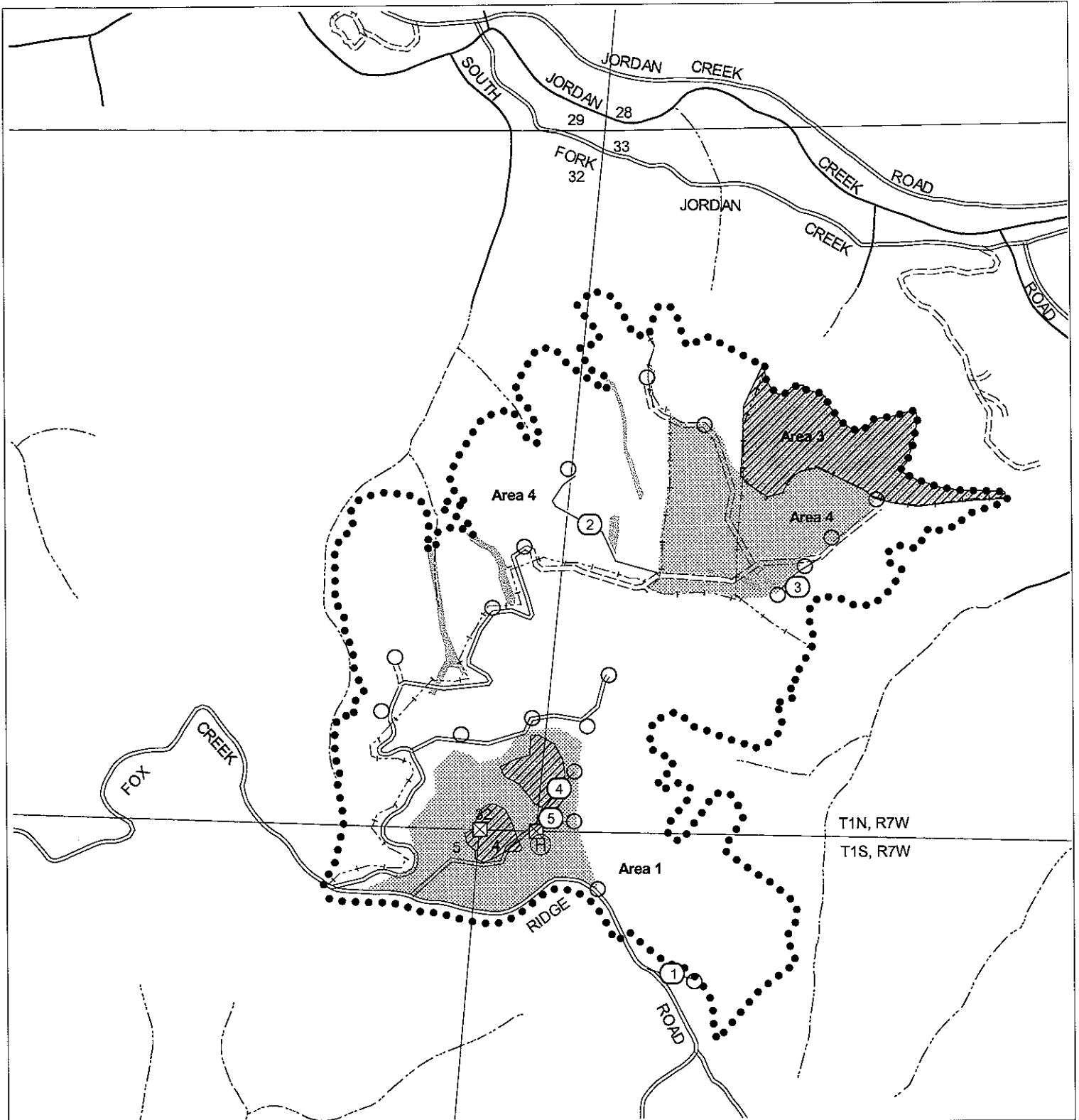
Area 3 NonReq. Partial Cut						
20 acres						
SPECIES	Basal Area Per Acre	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	48.00	92.90	4.5	90	5%	86
TOTAL			4.5	90		86

Area 4 Modified Clear-Cut						
122 acres						
SPECIES	Basal Area Per Acre	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	82.76	99.50	8.2	1000	5%	950
Alder	66.21	53.70	3.6	439	10%	395
TOTAL			11.8	1439		1345

Total acres 300

SPECIES	Gross Vol. (MBF)	Net Vol. (MBF)
Douglas-fir	2033	1846
W. Hemlock	53	50
Alder	584	526
TOTAL	2670	2422

Area 3, Non-Required Volume is not used in the sale total volume



LOGGING PLAN

Timber Sale Contract No. 341-08-40
 Fire Mole
 Portions of Sections 32 and 33,
 T1N, R7W, and portions of sections
 4 and 5, T1S, R7W, W. M.
 Tillamook County, Oregon

Area	Type of Operation	Acres	
		Gross	Net
1	Partial Cut	140	132
2	Partial Cut	26	26
3	Non-required Partial Cut	20	20
4	Modified Clearcut	126	122
Total		312	300

- Landing
- ⓓ Domestic water supply intake
- Ⓜ Helicopter landing zone
- Ⓣ Truck turn-around
- ⊠ Survey corner
- ▭ 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/Federal highway
- County road
- Non-project road
- Swing road
- Legacy road
- xxx Blocked road
- o-o-o OHV trail
- o-o-o Non-motorized trail
- T T Transmission line



Tillamook District GIS
 June 5, 2007

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

