

Timber Sale Appraisal Top Cat Sale 341-09-03

"STEWARDSHIP IN FURESTHT"

District: West Oregon

Date: September 17, 2008

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$770,033.16	\$85,211.34	\$855,244.50
· · · · · · · · · · · · · · · · · · ·		Project Work:	\$(155,820.00)
		Advertised Value:	\$699,424.50



Timber Sale Appraisal Top Cat Sale 341-09-03

"STEWARDSHIP IN FORESTRY"

District: West Oregon

Date:

September 17, 2008

timber description

Location: Portion of Section 26, T11S, R9W, W.M., Lincoln County, Oregon.

Stand Stocking:

80%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	28	0	.98
Alder (Red)	19	0	98

Volume by Grade	2S	3S	48	Camprur	Total
Douglas - Fir	2,078	286	38	0	2,402
Alder (Red)	0	0	0	177	177
Total	2,078	286	38	177	2,579

comments: Pond Values Used: 2nd Quarter Calendar Year 2008

Western Hemlock and Other Conifers Stumpage Price = \$100/MBF

Western Red Cedar Stumpage Price = Pond Value minus Logging Cost \$938/MBF = \$1,075/MBF - \$137/MBF

SCALING COST ALLOWANCE = \$5.00/MBF

FUEL COST ALLOWANCE = \$4.50/Gallon

HAULING COST ALLOWANCE

Hauling costs equivalent to \$700 daily truck cost.

Other Costs (with Profit & Risk to be added):
YUM Yarding of 100 Submerchantable Hardwood Trees = \$1,250

YUM Yarding of 100 Submerchantable Hardwood Trees = \$1,250 TOTAL Other Costs (with Profit and Risk to be added) =\$1,250

Other Costs (No Profit & Risk to be added): Firewood Sorting 4 hrs x \$110/hr = \$440

Fire Trail Construction 9900ft @ \$0.75/ft = \$7,425

Slash Throwback 1000ft@\$0.25/ft = \$250

Wildlife Tree Throwback 50 trees@\$3.50/tree = \$175 TOTAL Other Costs (No Profit & Risk added) = \$8,290



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District: West Oregon

September 17, 2008 Date:

logging conditions

combination#: 1

Douglas - Fir

97.00%

Alder (Red)

97.00%

yarding distance: Medium (800 ft)

downhill varding:

logging system:

Cable: Large Tower >=70

Process: Stroke Delimber

tree size:

Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF

5,000

loads / day:

10.0

bd. ft / load:

cost / mbf:

\$76.53

Log Loader (A) machines:

Stroke Delimber (A) Tower Yarder (Large)

combination#: 2

Douglas - Fir

3.00%

3

Alder (Red)

3.00%

yarding distance: Short (400 ft)

downhill yarding:

logging system: Wheel Skidder

No Process: Manual Falling/Delimbing

Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF

tree size:

10.0

bd. ft / load:

5,000

loads / day: cost / mbf:

\$63.52

machines:

Log Loader (B)

Tire Skidder

9/17/08



"STEWARDSHIP IN FORESTRY"

West Oregon

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Date:

September 17, 2008

logging costs

Operating Seasons:

1.00

Profit Risk:

12.00%

Project Costs:

\$155,820.00

Other Costs (P/R):

\$1,250.00

Slash Disposal:

\$0.00

Other Costs:

\$8,290.00

Miles of Road

District:

Road Maintenance:

\$0.00

Dirt	Rock (Contractor)	Rock (State)	Paved
0.0	4.0	0.0	0.0

Hauling Costs

Species	\$/MBF	Trips/Day	MBF / Load
Douglas - Fir	\$0.00	3.0	5.0
Alder (Red)	\$0.00	3.0	3.5

9/17/08



"STEWARDSHIP IN FORESTRY"

District: West Oregon

Timber Sale Appraisal Top Cat Sale 341-09-03

Date:

September 17, 2008

logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas - \$76.14	Fir \$4.16	\$1.70	\$42.50	\$0.48	\$15.00	\$0.00	\$5.00	\$3.21	\$148.19
Alder (Red	d)	·					·		
\$76.14	\$4.16	\$1.70	\$60.71	\$0.48	\$17.18	\$0.00	\$5.00	\$3.21	\$168.58

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$468.77	\$320.58	\$0.00
Alder (Red)	\$0.00	\$650.00	\$481.42	\$0.00

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"STEWARDSHIP IN FORESTRY"

West Oregon

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Date: September 17, 2008

summary

Amortized

District:

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00
Alder (Red)	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	2,402	\$320.58	\$770,033.16
Alder (Red)	177	\$481.42	\$85,211.34

Gross Timber Sale Value

Recovery:

\$855,244.50

Prepared by: Jennifer Moore

Phone: 541-929-3266

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SUMMARY OF ALL PROJECT COSTS

Sale Name:	Top Cat			Date: Time:	March 2008 14:50	
Project #1 - New	Construction			Tittio.	1-7.00	
Road Segment		<u>Length</u>		Cost		
B1 to B2		16.0 sta		\$53,871		
B3 to B4		6.0 sta		\$17,382		
				. ,		
	TOTALS	22.0 sta			-	\$71,253
Project #2 - Impr	<u>ovements</u>	1 41-		0		
Road Segment		Length		Cost		
A to A1 A1 to B		139.4 sta 22.3 sta		\$25,602		
B to C	·	22.5 sta 62.5 sta		\$1,308 \$4,829		
B to D		140.0 sta		\$8,686		
D to D1		23.0 sta		\$1,829		
<i>D</i> to D1	·	25.0 Sta		Ψ1,029		
	TOTALS	387.2 sta				\$42,254
Project #3 - Salm	on Creek Bridge					\$34,755
Project #4 - Post	Harvest Activities					\$4,225
Turnaround rock						
Install gate						
Move in			Cost	On-site move	€_	
Excavator			\$672	•	_	
Crawler tractor, D			\$488	•		
Crawler tractor, D			\$488			
Grader, Cat 14-G	or equiv.		\$304			
Water Truck			\$199			
Backhoe x 2			\$608	•		
Vibratory roller			\$304	\$50		
	TOTAL				_	\$3,333

GRAND TOTAL

\$155,820

Compiled by

J. Doyal

Date

03/11/2008

SALE ROAD	Top Cat B1 to B2			- Proje	ect #1		LENGTH	const		16.0 sta
CLEARING AND GRUBBING 0.68 acres @ \$992.20 /acre = \$675 road										and
(sta 1+00		@			φ 99 2.20	racre		-	φονο το	au
	2 acres to 16+00)	@			\$902.00	/acre		=	\$649 rd	oad
•	0 acres	@			\$902.00			=	\$90 la	
0.4	6 acres	@			\$902.00	/acre		=	\$415 w	aste area 2
						TOTAL C	LEARING A	AND GR	UBBING =	\$1,829
EXCAVA	TION									
Construct										
(endhaul	•		1560		@	\$3.37		=	\$5,257	
•	W2 & turnou	t)	5460	CY	@	\$4.02		=	\$21,949	
Construct		0 - 0011		sta.	@	\$66.32	/sta	=	\$458	
•	ta. 9+10 to 10	6+00))				#404.0 E	/la_	_	ሱ ፖርር	
Extra drift	: 00 to 16+00)		0	hrs.	@	\$121.25	/nr.	=	\$728	
Construct	•		1	hr.	@	\$121.25	/hr	=	\$121	
(Sta. 9+5)	-				w	Ψ121.20	7110.		ΨΙΖΙ	
Shape su	•		16.0	sta.	@	\$10.31	/sta	=	\$165	
(with road	grader)				_					
Compact			16.0	sta.	@	\$8.31	/sta	=	\$133	
•	atory roller)		00	h		ቀባባ ባባ	И	_	£4.000	
Waste are (dozer D4	ea ⊦@ W1 & W2	2)	20	hr.	@	\$80.00	/nr.	=	\$1,600	
\		_,								
							TOTAL EX	(CAVAT	ION =	\$30,411
SURFAC	ING					Size	Cost/yd			
Base rock				853	cy of	2½-0"	\$20.50	=	\$17,487	
Curve wid					cy of	2½-0"	\$20.50	=	\$2,071	
	ock sta 9+50)			cy of	jaw-run	\$23.10	=	\$624	
	ock Pt. B2				cy of	jaw-run	\$23.10	=	\$1,247	
-	oatch rock				cy of	1½-0"	\$22.46	=	\$202	
							TOTAL RO	оск со	ST=	\$21,631

Compiled by:

J. Doyal Mar 11, 2008 Date:

GRAND TOTAL ====>

\$53,871

SALE ROAD	Top Cat B3 to B4	- Project #1				LENGTH		6.0 sta			
CLEARING AND GRUBBING											
0.7	4 acres	@		\$902.00	/acre		=	\$667 road			
0.5	9 acres	@		\$992.20	/acre		=	\$585 waste	e area 1		
0.1	0 acres	@		\$902.00	/acre		=	\$90 landir	ng		
					TOTAL C	LEARING	AND GF	RUBBING =	\$1,342		
EXCAVA	TION	With D7	dozer	or equivaler	nt						
Construct (endhaul		1690		@	\$3.37	/CY	=	\$5,695			
Construc	t landing	1.5	hr.	@	\$121.25	/hr.	=	\$182			
Shape su	ıbgrade	6.0	sta.	@	\$10.31	/sta		\$62			
(with road	•										
-	subgrade	6.0	sta.	@	\$8.31	/sta	=	\$50			
Waste an	atory roller)	20	hr	@	\$80.00	/br	=	\$1,600			
(dozer D4		20	1111.	w.	ψου.υυ	7111.	_	φ1,000			
		•				TOTAL EX	/C 4\ / A T	TION -	ቀ 7 ፫00		
						TOTAL EX	CAVA	IION =	\$7,589		
SURFAC	ING				Size	Cost/yd					
Base rock	k (10" lift)		303	cy of	2½-0"	\$20.50	=	\$6,212			
Curve wid	dening			cy of	2½-0"	\$20.50	=	\$1,169			
Landing r	ock		54	cy of	jaw-run	\$19.81	=	\$1,070			
						TOTAL RO	OCK CC	OST =	\$8,451		

Compiled by: Date: J. Doyal

Feb 28, 2008

SALE ROAD	Top Cat A to A1	- Proj	ect #2		LENGTH	improv	e	139.4 sta
IMPROVI Shape su (with road	ırface	139.4 sta.	@	\$12.28	/sta	=	\$1,712	
SURFAC	ING			Size	TOTAL IM	IPROVE	EMENT	\$1,712
	ock 4" lift 00 to 126+70)	898	cy of	1½-0"	\$19.80	=	\$17,780	
-	dening rock	70	cy of	1½-0"	\$19.80	=	\$1,386	
Turnout	rock	22	cy of	1½-0"	\$19.80	=	\$436	
Spot rock	(198	cy of	1½-0"	\$18.30	=	\$3,623	
				,	TOTAL RO	оск со	OST =	\$23,225
SPECIAL	PROJECTS							
Clean out (inlets and		29	culverts	@	\$22.92	ea. =	\$665	
	•			TOTAL S	PECIAL PR	ROJECT	S COST =	\$665

Compiled by:

J. Doyal

Date: Feb 28, 2008

SALE ROAD	Top Cat A1 to B	- Projed	et #2		LENGTH	improve		22.3 sta
IMPROV Shape su (with road	ırface	22.3 sta.	@	\$12.28	/sta	=	\$274	
					TOTAL IM	PROVEN	MENT	\$274
SURFAC Spot rock		. 54 (cy of	Size 1½-0"	Cost/yd \$18.30	=	\$988	
					TOTAL RO	оск соя	ST =	\$988
SPECIAL Clean ou (inlets an		2 c	ulverts	@	\$22.92	ea. =	\$46	
				TOTAL S	PECIAL PR	OJECTS	COST =	\$46

Compiled by:

J. Doyal

Date:

Feb 28, 2008

GRAND TOTAL ====>

\$1,308

SALE ROAD	Top Cat B to C	- Projec	ct #2		LENGTH	improv	e	62.5 sta
IMPROVI Shape su (with road	ırface	62.5 sta.	@	\$12.28	/sta	=	\$768	
					TOTAL IM	IPROVE	EMENT	\$768
SURFAC Culvert be Culvert se			cy of cy of	Size 2½-0" 1½-0"	Cost/yd \$19.80 \$19.32 TOTAL Re	= = OCK CC	\$713 \$696 DST =	\$1,409
	PROJECTS	00.0			400.00	16.	A.	
· · · · · · · · · · · · · · · · · · ·	stream x-ing 0 24" x 80')	80 fi	i.	@	\$29.69	/ft. =	\$2,375	
Clean out	culverts	11 c	ulverts	@	\$22.92	ea. =	\$252	
Culvert di	•					=	\$25	
				TOTAL SI	PECIAL PF	ROJECT	S COST =	\$2,652

Compiled by:

J. Doyal Feb 28, 2008 Date:

SALE ROAD	Top Cat B to D	- Projec	ct #2		LENGTH	improve)	140.0 sta
IMPROVE	MENT							
Shape sur (with road		140.0 sta.	@	\$12.28	/sta	=	\$1,719	
Spread tu (dozer D4	rnout	1 hr.	@	\$80.00	/hr.	=	\$80	
Compact (with vibra	turnout atory roller sta	1 hr. a 113+20)	@	\$73.14	/hr.	=	\$73	
					TOTAL IM	PROVE	MENT	\$1,872
SURFACI	NG			Size	Cost/yd			
Turnout ro	ock	36	cy of	2½-0"	\$20.50	=	\$738	
Spot rock		270	-	1½-0"	\$19.48	=	\$5,260	
Endhaul w (Pt. B1 to		36	cy of	1½-0"	\$19.48	=	\$701	
					TOTAL RO	оск со	ST =	\$6,699
SPECIAL	PROJECTS							
Clean out (inlets and		5 c	ulverts	@	\$22.92	ea. =	\$115	
				TOTAL S	PECIAL PR	OJECT	S COST =	\$115

Compiled by:

J. Doyal

Date:

Feb 28, 2008

GRAND TOTAL ====>

\$8,686

SALE ROAD	Top Cat D to D1	- Proje	ct #2		LENGTH	improve	3	23.0 sta
IMPROVE Shape sur (with road	face	23.0 sta.	@	\$12.28	/sta	=	\$282	
					TOTAL IM	/PROVE	MENT	\$282
SURFACI Culvert ba Culvert su Endhaul w	se rock rface rock	18	cy of cy of cy of	Size 2½-0" 1½-0" 1½-0"	Cost/yd \$23.96 \$24.44 \$19.48	= = =	\$431 \$440 \$175	
					TOTAL R	оск со	ST=	\$1,046
Replace of (18" x 30' p Clean out	oolyethylene) culverts	30 t	ft. culverts	@	\$12.79 \$22.92		\$384 \$92	
(inlets and Culvert dis	,					=	\$25	
				TOTAL SI	PECIAL PE	ROJECTS	S COST =	\$501

Compiled by: Date: J. Doyal Feb 28, 2008

Project No. 3

SUMMARY OF CONSTRUCTION COST

Lower Salmon Creek Bridge

Materials	:01 _					c	10.000		
Wingwalls, backwalls, and si Slabs	ilis 168 LF	@	¢	195.00	/I E	\$ \$	10,000 32,760		
Surface rock 1 1/2-0"	52 cy	@		\$19.80		\$	1,030		
Base rock 2 1/2-0"	52 cy	@		\$19.32	-	\$	1,005		
Sill level rock 1 1/2-0"	18 cy	@		\$18.30	-	\$	329		
	144 cy	@		\$24.06	_	\$	3,465		
		_		•	•	·	•		
						TOTAL MATERIA	LS	\$	48,589
Equipment	•								
Equipment 35 ton crane	12 hrs.	@	\$	140.00	/hr	\$	1,680		
Excavator	20 hrs.	@		114.00		\$	2,280		
Dozer (D4)	20 hrs. 8 hrs.	@	\$	80.00		\$	640		
Dump truck (endhaul)	52 cy	@	\$			\$	118		
Vibratory roller	6 hrs.	@	\$	73.14		\$	439		
Vibratory roller	0 1113.	w	Ψ	70.14	, t III .	. •	700		
						TOTAL EQUIPME	ENT	\$	5,157
Labor									
General labor x 2	60 hrs.	@	\$	43.33	/hr.	\$	2,600		
		_					-		
•						TOTAL LABOR		\$	2,600
Proffesional Services									
Bridge design and site plans						TOTAL SERVICE	S	\$	4,000
Move-In									
35 ton crane						\$	2,500		
Excavator						\$	672		
Dozer [,]						\$	488		
Vibratory roller						\$	304		
						TOTAL MOVE-IN		\$	3 064
						TOTAL MOVE-IN		Φ	3,964
Misc Exspenses									
Culvert disposal								\$	200
Profit and Risk								\$	5,000
						GRAND TOTAL		\$	69,510
						ODF		c	24 755
						ODF ODF&W		\$ \$	34,755 34,755
						02.011		7	J .,. J

SALE Top Cat ROAD	- Project #4 Pos	st Harvest			
SURFACING		Size	Cost/CY		
Turnaround rock Pt. B2	27 cy of	2½-0"	\$23.96	=	\$ 647
Turnaround rock Pt. B4	27 cy of	2½-0"	\$23.96	=	\$ 647
Landing patch rock (B1 to B2 9+50)	18 cy of	2½-0"	\$23.96	=	\$ 431

TOTAL SURFACING COST = \$1,725

MISCELLANEOUS PROJECTS

Install gate Pt. B1 \$2,500

> \$2,500 TOTAL MISCELLANEOUS PROJECTS =

Compiled by:

J. Doyal Feb 28, 2008 Date:

GRAND TOTAL =====>

\$4,225

TIMBER SALE SUMMARY

Sale Name: Top Cat 341-09-03

Sale Type: Modified clearcut harvest: 69 net acres; 100% BOF.

Sale Area: Portion of Section 26, T11S, R9W, W.M., Lincoln County, Oregon.

Access: From Philomath take Highway 20 west approx. 23 miles to Salmon Creek road. Turn left and travel approx. 2.6 miles to Wolf Creek road. Turn right and drive approx. 0.3 miles to Baber Ridge road. Turn right and travel approx. 1.5 miles to arrive at the timber sale area.

Boundaries: The timber sale boundary is posted with "Timber Sale Boundary" signs, fluorescent pink flagging, and fluorescent red paint. Type N stream buffers in the unit are posted with fluorescent pink flagging, fluorescent red paint, and "Buffer Zone" signs. Road right-of-way boundaries are posted with "R/W Boundary" signs, and fluorescent pink ribbon.

<u>Timber Description:</u> The timber sale consists of one area. This area is a modified clearcut leaving 8-10 trees per acre after harvest. This area contains 90-year-old Douglas-fir and red alder. The average DBH of Douglas-fir is 28 inches and red alder is 19 inches.

Topography: The sale area has a north/south ridgetop located in the middle of the unit. Slopes range from 60-85% and the aspect is predominately southwest.

<u>Streams</u>: There are three small type N streams within the unit. The streams have a posted buffer, which extends an average of 75 feet horizontal distance from each side of the stream's edge. There is a small Type F stream south of the timber sale area. The timber sale boundary has been posted an average of 100 feet horizontal distance from the edge of the Type F stream. All timber in these areas is reserved from harvest.

Reserve Trees: All trees marked with fluorescent red paint are reserved from cutting. Reserve tree species include Douglas-fir, red alder, and bigleaf maple. All trees within the posted buffer zones are reserved from harvest.

<u>T & E Surveys:</u> The sale area contains suitable habitat for northern spotted owls and potential habitat for marbled murrelets. The sale was surveyed for northern spotted owls and marbled murrelets in 2006 and 2007 with no detections. Owl surveys will be conducted in 2008.

<u>Logging Methods:</u> Approximately 97% of the sale volume will require cable yarding; the remaining 3% can be ground yarded.

Projects: No. 1 – Road Construction 0.4 miles

No. 2 – Road Improvement and Maintenance 7.3 miles

No. 4 – Post Harvest Activities

<u>Other Requirements:</u> There is a requirement of (4) hours of firewood sorting. Yarding Unmerchantable Material (YUM) is required on approximately 10 acres of the sale area.

Cruise Summary:

MBF Volume										
Gross Acres	Net Acres*	Species	Gross Volume	Net Volume	% Hidden D&B	Final Adjusted Volume				
75	69	Douglas-fir	2563	2555	6	2402				
	i i	Red Alder	190	188	6	177				

^{*} Net acres represent a reduction of gross acres to account for existing roads, and streams. Acres were determined using GIS and orthophotos.

Grade by %										
Species	2 Saw	3 Saw	4 Saw	Camp Run						
Douglas-fir	87%	12%	1%							
Red alder				100%						

<u>Cruise Methods:</u> The cruise design consisted of a combination of both "count" and "measure" plots. The area was cruised using variable radius plots and a 40 BAF prism along with a Big BAF of 160. A 2.25 x 2.25 chain grid was laid out in order to sample the area. On each measure plot, all Douglas-fir trees were counted and "take" trees were defined as those not marked with fluorescent red paint. The DBH of all "take" trees was measured, and take trees that were determined to be "in" using Big BAF were measured for volume and grade. The DBH and height were taken for every red alder in with a 40 BAF on the measure plots. On each count plot, all trees were counted using a 40 BAF.

<u>Tree form:</u> Form point was at 16 feet. Form factor for each measured conifer was determined using a relaskop and the formula of number of bars at form point divided by number of bars at DBH.

<u>Measurement Standards:</u> Heights for Douglas-fir were measured to the nearest foot to a top cruise diameter of 6 inches inside bark or 40% of form point. Diameters were measured at breast height to the nearest inch.

<u>Grading System:</u> All trees were graded in a maximum of 40 foot segments unless defect or length to top cruise diameter warranted otherwise.

<u>Utilization Standards:</u> For Douglas-fir a minimum log segment of 6 inches in diameter (inside bark) by 13 feet in length was used. Only trees 7 inches DBH and 13 feet in length and larger were cruised.

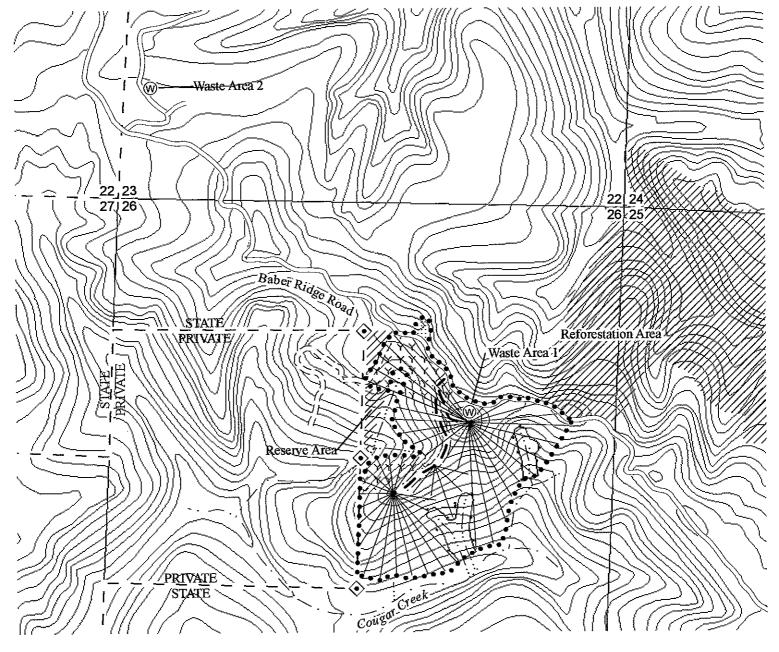
<u>Hidden Defect and Breakage:</u> A hidden D & B of 6% was applied to the net cruised volumes.

Computation Procedures: All cruise data was entered into the SuperAce program and calculated at the district office.

Cruisers/ Dates: The sale area was cruised by D. Borg, B. McKinley, and J. Moore, in December 2007 and January 2008.

Signatures:

Cruise Specialist January Marie Royal Roya



LOGGING PLAN

Legend

Timber Sale Boundary

State Forest Property Boundary

Surfaced Road

= Unsurfaced Road

New Road Construction

Posted Right of Way Boundary

- Type F Stream

- Type N Stream

Stream Buffer Boundary (Posted)

Diomin Bandi Boundary (1 obtob

:::::: Tractor Yarding Area
——— Cable Corridors

Y Yum Area

/// Harvest Restricted Area

- 40 Foot Contours

Land Survey Monument

(w) Waste Area

OF TIMBER SALE # 341-09-03 TOP CAT

PORTIONS OF SECTION 26, T11S, R9W, W.M. LINCOLN COUNTY, OREGON

This product is for informational use and may not have been prepared for or be suitable for legal, engineering or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information.

Scale 1:12,000 1 inch = 1,000 feet

0 250 500 1,000 1,500 2,000



2 NET ACRES TRACTOR 67 NET ACRES CABLE