

District:

Forest Grove

Date:

January 11, 2012

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$1,092,696.96	\$9,322.04	\$1,102,019.00
		Project Work:	\$(127,525.00)
		Advertised Value:	\$974,494.00

1/11/12



"STEWARDSHIP IN FORESTRY"

District: Forest Grove

Date:

January 11, 2012

timber description

Location: Portions of Sections 4, 9, & 10, T1N, R6W, W.M., Tillamook County, Oregon.

Stand Stocking: 20%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)	
Douglas - Fir	17	0	98	
Alder (Red)	12	0	98	

Volume by Grade	28	38	48	Camprur	Total
Douglas - Fir	1,844	1,288	264	0	3,396
Alder (Red)	0	0	0	26	26
Total	1,844	1,288	264	26	3,422

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"STEWARDSHIP IN FORESTRY"

District: Forest Grove

Date: January 11, 2012

comments: Pond Values Used: 4th Quarter Calendar Year 2011.

Western hemlock and Other Conifers Stumpage Price = Pond Value minus Logging Cost: \$236.64/MBF = \$415/MBF - \$178.36/MBF

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost: \$621.64/MBF = \$800/MBF - \$178.36/MBF

SCALING COST ALLOWANCE = \$5.00/MBF

FUEL COST ALLOWANCE = \$4.00/Gallon

HAULING COST ALLOWANCE
Hauling costs equivalent to \$740 daily truck cost.

Other Costs (with Profit & Risk to be added):
Brand and Paint: 3,422 MBF x \$1/MBF = \$3,422
Intermediate Supports: 20 each x \$100/support = \$2,000
Total Other Costs (with Profit & Risk to be added) = \$5,422

Other Costs (No Profit & Risk added):
Machine time to block/waterbar roads and skid trails:
10 hours x \$110/hr. = \$1,100
Machine time to pile landing slash:
10 hours x \$110/hr. = \$1,100
Slash Treatment: 20 acres x \$150/acre = \$3,000
Equipment Cleaning: 2 machines x \$1,000/machine = \$2,000
TOTAL Other Costs (No Profit & Risk added) = \$7,200

ROAD MAINTENANCE
Move-in: \$1,000
General Road Maintenance: 10.2 miles x \$1,000/mile = \$10,200
Total = \$11,200
Cost per MBF = \$11,200/3,422 MBF = \$3.27/MBF

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"STEWARDSHIP IN FORESTRY"

District: **Forest Grove** Date:

January 11, 2012

logging conditions

combination#: 1

Douglas - Fir

69.00%

Alder (Red)

69.00%

yarding distance: Short (400 ft)

logging system: Cable: Medium Tower >40 - <70 Process: Stroke Delimber

downhill yarding: No

Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF

loads / day:

tree size:

8.0

bd. ft / load:

cost / mbf:

\$104.50

machines:

Log Loader (A)

Stroke Delimber (A) Tower Yarder (Medium)

combination#: 2

Douglas - Fir

31.00%

Alder (Red)

31.00%

yarding distance: Short (400 ft)

downhill yarding:

logging system: Shovel

Process: Stroke Delimber

tree size:

Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF bd. ft / load:

loads / day: cost / mbf:

\$51.37

machines:

Stroke Delimber (B)

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"STEWARDSHIP IN FORESTRY"

District: Forest Grove

Date:

January 11, 2012

logging costs

Operating Seasons:

1.00

Profit Risk:

15.00%

Project Costs:

\$127,525.00

Other Costs (P/R):

\$5,422.00

Slash Disposal:

\$0.00

Other Costs:

\$7,200.00

Miles of Road

Road Maintenance:

\$3.27

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	4.0
Alder (Red)	\$0.00	2.0	3.4

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"STEWARDSHIP IN FORESTRY"

District: Forest Grove

Date:

January 11, 2012

logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas -	Fir								
\$88.03	\$3.34	\$1.28	\$54.69	\$1.58	\$22.34	\$0.00	\$5.00	\$2.10	\$178.36
Alder (Red	i) '								
\$88.03	\$3.34	\$1.28	\$96.52	\$1.58	\$28.61	\$0.00	\$5.00	\$2.10	\$226.46

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$500.12	\$321.76	\$0.00
Alder (Red)	\$0.00	\$585.00	\$358.54	\$0.00

1/11/12



"STEWARDSHIP IN FORESTRY"

District: Fore

Forest Grove

Date:

January 11, 2012

summary

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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	3,396	\$321.76	\$1,092,696.96
Alder (Red)	26	\$358.54	\$9,322.04

Gross Timber Sale Value

Recovery:

\$1,102,019.00

Prepared by: Eric Foucht

Phone: 503-359-7473

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TIMBER SALE SUMMARY Blackjack 341-12-07

1. Type of Sale: Modified clear cut, recovery, sealed bid auction

2. Revenue Distribution: 100% BOF, Tillamook County, Tax Codes 56 (2%) & 9-2 (98%)

3. <u>Sale Acreage</u>: Approximately 104 acres of modified clearcut. Acres were determined using ESRI Arcmap GIS software.

4. <u>Cruise</u>: The Timber Sale was cruised by ODF cruisers using variable radius plots. Volume estimates and plot data statistics were computed using SuperACE timber cruise software. For more information see the Cruise Report

5. Volume:

		2	3	4		
SPECIES		SAW	SAW	SAW	CAMPRUN	TOTAL
Douglas-fir	Cruise Volume	1,882	1,314	269		3,465
	Hidden D&B	(38)	(26)	(5)	()	(69)
	Total	1,844	1,288	264		3,396
	% Total	54	38	8		100

SPECIES		2 SAW	3 SAW	4 SAW	CAMPRUN	TOTAL
Red alder	Cruise Volume				27	27
	Hidden D&B	()	()	()	(1)	(1)
	Total				26	26
	% Total				100	100

- **6.** <u>Timber Description</u>: The Sale Area is 60 year old stand of Douglas-fir with minor amounts of alder, grand fir and western hemlock. The DBH averages approximately 17 inches for Douglas-fir and 12 inches for red alder. Grand fir and western hemlock are reserved. The average net volume per acre is approximately 33 MBF.
- **7.** <u>Topography and Logging Method</u>: This sale area is 31% ground based yarding and 69% cable yarding. The maximum yarding distance is approximately 1,000 feet horizontal distance, with an average yarding distance of about 400 feet. Slopes range from 10% to 55%.
- **8.** <u>Access</u>: The access route consists of paved or gravel all-weather roads. From Forest Grove, proceed north on Highway 8 to its junction with Highway 6. Turn left, continue west approximately 9½ miles to the Beaverdam road and turn left. Continue approximately ¾ miles on Beaverdam road to its junction with University Falls Road and turn right. Proceed 2¼ miles on the University Falls Road to the Beaverdam Road, turn right and continue ½ miles to the BD-5 road. Turn right and continue 1¾ miles to the Beaverjack Road. Turn right and proceed ½ mile to the southeast corner of the Sale Area. To

access the western portion of the Sale Area, continue west on Highway 6 from the University Falls Road to the South Fork Wilson Road and turn left. Continue 2¾ miles to the Stage Road and turn left. Proceed approximately 1 mile to the southwest corner of the Sale Area. See Exhibit A "Vicinity Map" for additional access and haul route information.

9. Projects:

Project No. 1: 1.1 miles of road construction and 3 miles of road improvement:	\$54,107.50
Project No. 2: 4.1 miles of road surfacing:	\$44,795.62
Project No. 3: Fill Removal:	\$14,854.93
Project No. 4: Grass seed, fertilize, and mulch:	\$1,108.10
Project No. 5: Road vacating and trail restoration:	\$6,625.00
Move in and equipment cleaning:	\$6,031.49
Total Credit for all Projects (rounded)	\$127,525.00
10. Other Costs: Other Costs with (P/R) Brand and Paint: 3,422 MBF @ \$1.00/MBF Intermediate Supports: 20 @ \$100.00 Total Other Costs with (P/R):	\$3,422.00 \$2,000.00 \$5,422.00
Other Costs (no P/R) Blocking/Waterbarring skid roads: 10 Hours @ \$110.00/hour Piling Landing Slash: 10 hours @ \$110.00/hour Slash Treatment: 20 acres @ \$150.00/ acre Equipment Cleaning: 2 machines @1000/machine Total Other Costs (no P/R):	\$1,100.00 \$1,100.00 \$3,000.00 \$2,000.00 \$7,200.00
Total Other Costs:	\$12,622.00

PROJECT COST SUMMARY SHEET

Timber Sale: __

Black Jack

Sale Number: ___

341-12-07

PROJECT NO. 1: ROAD CONSTRUCTION AND IMPROVEMENT

CONSTRUCTION

Road Segment	Length	Cost					
B to C	12+40	\$2,999.28					
D to E	38+00	\$32,828.49					
F to G	2+90	\$884.03					
H to I	3+55	\$1,104.79					
K to L	2+00	\$793.40					
	56+85	stations					
	1.08 miles						

SUBTOTAL CONSTRUCTION

\$38,609.99

IMPROVEMENTS

Road Segment	Length	Cost					
A to B	33+30	\$3,055.11					
Z to A	96+00	\$622.20					
J to K	28+34	\$11,820.20					
,	157+64	stations					
	2.00 miles						

2.99 miles

SUBTOTAL IMPROVEMENTS

\$15,497.51

TOTAL PROJECT NO. 1 COST =

\$54,107.50

PROJECT NO. 2: SURFACING

Road Segment	Amount	Туре	Cost	
A to B	500 cy	3" - 0	\$4,355.00	
B to C	679 cy	3" - 0	\$6,287.54	
D to E	1,749 cy	3" - 0	\$16,580.52	
D to E	100 cy	36" - 24"	\$918.00	
F to G	272 cy	3" - 0	\$2,537.76	
H to I	303 cy	3" - 0	\$2,826.99	
J to K	711 cy	3" - 0	\$5,851.53	
K to L	228 cy	3" - 0	\$1,876.44	
Z to A	366 cy	1.5" -0	\$2,239.92	
Z to A	216 cy	3" - 0	\$1,321.92	
Total	366 cy	1 1/2" - 0		
	4,658 cy	3" - 0		
	100 cy	36" - 24		

TOTAL PROJECT NO. 2 COST =

\$44,795.62

PROJECT NO. 3: FILL REMOVAL

Fill removal at Point X

\$14,854.93

TOTAL PROJECT NO. 3 COST =

\$14,854.93

PROJECT NO. 4: GRASS SEED, FERTILIZE, & MULCH

Grass seed and fertilize areas of disturbed soil.

TOTAL PROJECT NO. 4 COST =

\$1,108.10

PROJECT NO. 5: VACATING AND TRAIL RESTORATION

Vacate V1 to V2

\$2,840.00

Vacate V2 to V3

\$3,785.00

TOTAL PROJECT NO. 5 COST =

\$6,625.00

MOVE IN & EQUIPMENT CLEANING

\$6,031.49

TOTAL ALL PROJECTS
TOTAL CREDITS

\$127,522.64 \$127,525.00

Timber Sale:	Black Ja	ck		Timber Sale N	o.: 341-	12-07
Road Segment:	A to B			Improveme	nt: 33+30 stations	
					0.63 miles	
PROJECT NO.	1					
EXCAVATION						
Install a gate at 2+00 ac	cording to specificatio	ns in Exhibit J.			\$600.00	
Clearing and Grubbing	(Scatter)	1.53	acres @	\$980.00 per acre		
Grade, Ditch, and Roll		33.30	sta @	\$28.70 persta = TOTAL	\$955.71 EXCAVATION COSTS=	\$3,055.11
			PR	OJECT NO. 1	TOTAL COST =	\$3,055.11
PROJECT NO.	2:					
SURFACING						
A to B (spot rock) Total =	500 cy of	3" - 0	@	\$8.71 percy=	\$4,355.00	
1000	500 cy of	3" - 0				
			PR	OJECT NO. 2	TOTAL COST =	\$4,355.00
PROJECT NO.	4:					
Grass seed and fertilize	areas of disturbed so	oil. 0.75	acres @	\$220.00 per acre	= \$165.00	
			PR	OJECT NO. 4	TOTAL COST =	\$165.00
				TC	DTAL COST =	\$7,575.11

			00111	1.16.21.6.1	01 00	NOTITOOL	1011 00.	51	
Timber Sale:		Black Jac	ck			Timbe	r Sale No	o.: 341-	-12-07
Road Segment:		B to C				Co	nstructio	n: 12+40 stations	
٠ .		-y						0.23 miles	
PROJECT NO.	1								
EXCAVATION									
Clearing and Grubbing	(Scatter)			1.13	acres @	\$980.00	per acre	= \$1,107.40	
Balanced Road Constru	uction			12.40	sta @	\$90.00	per sta =	\$1,116.00	
Construct Turnouts (1)				1	ea @	5 6	per ea =	\$60.00	
Construct Turnaround (1)			1	ea @		per ea =	\$75.00	
Landing				1	ea @		per ea =	\$285.00	
Grade, Ditch, and Roll				12.40	sta @	\$28.70	per sta =	\$355.88	- Constant Contraction Section
							TOTAL	EXCAVATION COSTS=	\$2,999.28
					PF	ROJECT	NO. 1	TOTAL COST =	\$2,999.28
PROJECT NO.	2:	" deep =	42 cy	/eta					
B to C	521	cy of	3" - 0		@	\$9.26	per cy =	\$4,824.46	
Curve Widening	10	cy of	3"-0		@		percy =	\$92.60	
Turnaround	14	cy of	3" - 0		<u> </u>		per cy =	\$129.64	
Turnout	14	cy of	3"-0		<u>.</u>		percy=	\$129.64	
Landing (1)	120	cy of	3" - 0		@		percy=	\$1,111.20	
Total =									•
	679	cy of	3" - 0						
					PF	ROJECT	NO. 2	TOTAL COST =	\$6,287.54
PROJECT NO.	4:								
Grass seed and fertilize	areas of c	listurbed soi	il.	0.57	acres @	\$220.00	per acre	= \$124.30	
								TOTAL COST =	- \$124.30
							тс	TAL COST =	\$9,411.12
							i C	TAL COST -	$\psi \Im, 4 \sqcap \Gamma \Gamma \Gamma$

Timber Sale No. 341-12-07 Timber Sale: Black Jack D to E Construction: 38+00 stations Road Segment: 0.72 miles PROJECT NO. 1 **EXCAVATION** Clearing and Grubbing (Scatter) 3.49 acres @ \$1,176.00 per acre = \$4,104.24 **Balanced Road Construction** 29.70 sta@ \$90.00 per sta = \$2,673.00 2.70 \$150.00 per sta = \$405.00 sta@ Road Widening (Drift) 5.60 sta@ \$90.00 per sta = \$504.00 FILL CONSTRUCTION (25+25) \$3,467.25 Excavate & Drift 1,541 \$2.25 per cy = cy@ \$2.25 per cy = \$470.25 Haul in fill Material (from fill vacate) 209 cy@ Place Fill 3,010 cy@ 2.12 per cy =\$6,381.20 3,010 \$0.45 per cy = \$1,354.50 Compact Fill cy@ Endhaul (26+80 to 31+50) \$1,764.00 Excavate & Load 1,260 cy@ \$1.40 per cy =\$2,835.00 Haul (to 25+25) 1.260 cy@ \$2.25 per cy = 5 \$60.00 per ea = \$300.00 Construct Turnouts (5) ea@ Construct Turnaround (1) ea@ \$75.00 per ea = \$75.00 \$285.00 \$285.00 Landing ea@ per ea = Grade, Ditch, and Roll 32.30 sta@ \$28.70 per sta = \$927.01 Grade and Roll (Outslope) \$27.20 \$155.04 5.70 sta@ per sta = TOTAL EXCAVATION COSTS= \$25,700.49 CULVERTS - MATERIALS & INSTALLATION Culverts LF of 18" \$3,276.00 182 LF of 36" \$3,698.00 86 \$6.974.00 **Culvert Markers** 5 markers \$50.00 **Bands** 2 ea of 36" @ \$52.00 per ea = 104.00 104.00 TOTAL CULVERT COSTS = \$7,128.00 PROJECT NO. 1 TOTAL COST = \$32,828.49 PROJECT NO. 2: 8" depth = 42 cy/sta. SURFACING 6" depth = 31 cy/sta. D to E (0+00 to 25+00, 8") 1,050 3" - 0 \$9.48 per cy = \$9,954.00 cy of \$3,820.44 D to E (25+00 to 38+00, 6") 403 3" - 0 @ \$9.48 per cy =cy of Curve Widening 40 3" - 0 \$9.48 per cy = \$379.20 @ cy of Turnouts (3) (8") 42 cy of 3" - 0 @ \$9.48 per cy = \$398.16 20 \$9.48 per cy = \$189.60 Turnouts (2) (6") cy of 3" - 0 @ 120 \$1,137.60 Landing (1) cy of 3" - 0 @ \$9.48 per cy = **Culvert Bedding** 40 cy of 3" - 0 @ \$9.48 per cy = \$379.20 \$9.48 per cy = \$132.72 Turnaround 14 cy of 3" - 0 @ 20 \$9.48 per cy = \$189.60 Fill Widening 3" - 0 @ cy of Place Fill Armor 100 cy of 36" - 24" (a) \$9.18 per cy = \$918.00 Total = 3" - 0 1749 cy of 100 36" - 24" cy of PROJECT NO. 2 TOTAL COST = \$17,498.52 PROJECT NO. 4: Grass seed and fertilize areas of disturbed soil. 1.75 acres @ \$220.00 per acre = \$383.90 Mulch 0.25 acres @ \$600.00 per acre = \$150.00 PROJECT NO. 4 TOTAL COST = \$533.90

TOTAL COST =

\$50,860.91

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Timber Sale:	ı	Black Jac	k				Timber	Sale No	. :	341-1	2-07
Road Segment:		F to G					Cor	nstruction	0.05		
PROJECT NO. 1											
EXCAVATION Clearing and Grubbing (Sc Balanced Road Constructi Landing Grade, Ditch, and Roll				0.26 2.90 1 2.90	е	a @	\$90.00 \$285.00	per acre : per sta = per ea = per sta = TOTAL		\$254.80 \$261.00 \$285.00 \$83.23 FION COSTS=	\$884.03
						PRO	JECT	NO. 1	TOTAL	. COST =	\$884.03
PROJECT NO. 2:	8	" deep =	12 c.il	cta							
F to G Junction Landing (1) Total =	122 30 120	cy of cy of cy of	42 cy/ 3" - 0 3" - 0 3" - 0		@ @ @		\$9.33	per cy = per cy = per cy =		\$1,138.26 \$279.90 \$1,119.60	
, 3.3	272	cy of	3"-0			PRO	JECT	NO. 2	TOTAL	COST =	\$2,537.76
PROJECT NO. 4:	6										
Grass seed and fertilize a	reas of di	sturbed soi	l.	0.13	acres			per acre NO. 4		\$28.60 _ COST =	\$28.60
								ТС	TAL	COST =	\$3,450.39

				ARI	OF CON	SIKUCII	ON COS) [
Timber Sale:		Black Jac	k			Timbe	r Sale No	o.: 34	1-12-	07
Road Segment:		H to I				Coi	nstructio	n : 3+55 stations 0.07 miles		
PROJECT NO. 1										
EXCAVATION										
Clearing and Grubbing (Sc	catter)			0.33	acres @	\$980.00	per acre	= \$323.	40	
Balanced Road Constructi				3.55	sta.@		persta =	\$319.	50	
Construct Turnaround (1)				1	ea @		perea=	\$75.	00	
Landing				1	ea@		perea=	\$285.	00	
Grade, Ditch, and Roll				3.55	sta @	\$28.70	per sta =	\$101.		
							TOTAL	EXCAVATION COST	S=	\$1,104.79
					PF	ROJECT	NO. 1	TOTAL COST	=	\$1,104.79
PROJECT NO. 2: SURFACING	8	" deep =	42 cy/	'sta						
H to I	149	cy of	3" - 0		@	\$9.33	per cy =	\$1,390.	17	
Junction	20	cy of	3" - 0	1	@	\$9.33	per cy =	\$186.	60	
Turnaround	14	cy of	3" - 0		@	\$9.33	per cy =	\$130.	62	
Landing (1)	120	_ cy of	3" - 0	1	@	\$9.33	per cy =	<u>\$1,119.</u>	60	
Total =	303	cy of	3"-0							
					PF	ROJECT	NO. 2	TOTAL COST	= _	\$2,826.99
PROJECT NO. 4:										
Grass seed and fertilize a	reas of c	listurbed soi	I.	0.17	acres @	\$220.00	per acre	= \$36.	.30	
					PF		1	TOTAL COST	= _	\$36.30
					ē		TC	OTAL COST	= 9	3,968.08

			1 01 00	INSTRUCT					
Timber Sale:	Black Jack		Timbe	r Sale No. :		341-12-07			
Road Segment:	J to K			Imp	rovement:	28+34	stations		
						0.54	miles		
PROJECT NO. 1									
EXCAVATION									
Clearing and Grubbing (Sca	atter)	1.30	acres (\$980.00	per acre =		\$1,274.00		
Road Widening (Drift)		20.75	sta 🤅	\$90.00	per sta =		\$1,867.50		
Corner construction (18+42	to 21+13)								
Excavate		1,200	cy (per cy =		\$2,940.00		
Push		800	cy (per cy =		\$600.00		
End-haul to Waste Area		400	cy (per cy =		\$1,040.00		
Place Fill		800	cy (per cy =		\$1,696.00		
Compact Fill		800	hr (per cy =		\$600.00		
Compact Waste Area Grade, Ditch, and Roll		400 21.00	cy (per cy = per sta =		\$100.00		
Grade, Ditch, and Roll		21.00	sta 🤄	3 \$26.7U			\$602.70 N COSTS=	#10 720 20	
CULVERTS - MATER	IAI C & INICTALL	ATION			TOTAL EX	CAVATIC	IN CO212=	\$10,720.20	
	IALS & INSTALL	AHUN							
Culverts									
60 I	LF of 18" <u>\$1,080.00</u>								
	\$1,080.00								
Culvert Markers									
2 ma	rkers \$20.00								
					TOTAL	CULVER	T COSTS =	\$1,100.00	
			Р	ROJECT	NO. 1 TO	OTAL (COST =	\$11,820.20	
							-		
PROJECT NO. 2:									
SURFACING	Charles and the second	31 cy/sta	_						
J to K (2+00 to 23+00)		3"-0	@		per cy =		\$5,357.73		
Curve Widening		3"-0	@		per cy =		\$329.20		
Junction	20 cy of	3" - 0	@	\$8.23	per cy =		<u>\$164.60</u>		
Total =	711 cy of	3"-0							
	711 cy of	3 - 0							
			Р	ROJECT	NO. 2 TO	DTAL (COST = .	\$5,851.53	
PROJECT NO. 4:									
Grass seed and fertilize are	eas of disturbed soil.	0.65	acres @	\$220.00	per acre =		\$143.00		
		2,30				TAL (A1 10 00	
			Р	ROJECT	NO. 4 10	OTAL (COST =	\$143.00	
					ТОТ	AL C	OST =	\$17,814.73	

Timber Sale:		Black Jac	k			Timbe	r Sale No. :		341-1:	2-07
Road Segment:		K to L				Cor	nstruction :	2+00 0.04	stations — miles	
								0.01		
PROJECT NO.	1									
EXCAVATION										
Clearing and Grubbing	(Scatter)			0.20	acre	s@ \$980.00	per acre =		\$196.00	
Balanced Road Constru				2.00	st	a@ \$90.00	per sta =		\$180.00	
Construct Turnaround (1)			1	е	a.@ \$75.00	per ea =		\$75.00	
Landing	,			1	е		per ea =		\$285.00	
Grade, Ditch, and Roll				2.00	st	a.@ \$28.70	per sta =		\$57.40	
							TOTAL EX	CAVATI	ON COSTS=	\$793.40
						PROJECT	NO. 1 TO	DTAL	COST =	\$793.40
PROJECT NO.	2:									
SURFACING	8	" deep =	42 cy/	sta						
K to L	84	cy of	3" - 0		@	\$8.23	percy=		\$691.32	
Curve Widening	10	cy of	3" - 0		@		percy=		\$82.30	
Turnaround	14	cy of	3" - 0		@	\$8.23	percy=		\$115.22	
Landing (1)	120	cy of	3" - 0		@	\$8.23	percy=		\$987.60_	
Total =										
	228	cy of	3" - 0							
						PROJECT	NO. 2 TO	OTAL	COST =	\$1,876.44
PROJECT NO.									100.00	
Grass seed and fertilize	e areas of o	disturbed so	il.	0.10	acres	@ \$220.00) per acre =		\$22.00	
						PROJECT	NO. 4 T	OTAL	COST =	\$22.00
							TOI		COST =	\$2 691 84

Timber Sale:	Black Jack				Timber Sale No.	12-07		
Road Segment: _	Ž	Z to A (BD 5)		-		Improvement	96+00 stations 1.82 miles	
PROJECT NO. 1								
Grade, Ditch, and Roll Construct/improve turnouts			6.00 6.00		sta @ ea @	\$28.70 persta = \$75.00 persta = TOTA	\$172.20 \$450.00 L EXCAVATION COSTS=	_
					Р	ROJECT NO. 1	TOTAL COST =	\$622.20
PROJECT NO. 2:								
SURFACING Base Rock (0+00 to 6+00) Spot Rock Turnouts (6) Total =	6 216 300 66 366 216	" deep = cy of cy of cy of cy of cy of	31 cy/sta 3" - 0 1 1/2" - 0 1 1/2" - 0 1 1/2" - 0 3" - 0	_ @ @		\$6.12 percy= \$6.12 percy= \$6.12 percy=	\$1,321.92 \$1,836.00 \$403.92	
					Р	ROJECT NO. 2	2 TOTAL COST =	\$3,561.84
PROJECT NO. 4:								
Grass seed and fertilize area	as of distu	rbed soil.	0.2!	5 a.cr	es @ P	\$220.00 per acre = ROJECT NO. 4	\$55.00 4 TOTAL COST =	_
						Т	OTAL COST =	\$4,239.04

Timber Sale: Black Jack			Timber	Sale No.:	341-12-07
Road Segment: Point X					
PROJECT NO. 3					
FILL REMOVAL			7		
Clearing and Grubbing (Scatter) Endhaul grubbing material	0.30 300	acres @ cy @	2 - 40 5 5	per acre = per yd. =	\$352.80 \$732.00
FILL EXCAVATION Excavate existing fill Endhaul fill material Place waste Compact waste Pump culvert installation Grade & Ditch (waste area) w/ excavator Grass seed and fertilize areas of disturbed soil. Mulch		cy @ cy @ cy @ cy @ day @ hr @ acres @ acres @	\$1.21 \$1.95 \$0.75 \$75.00 \$165.00 \$220.00	per cy = per cy = per cy = per cy = per hr = per hr = per acre = per acre =	\$3,455.40 \$2,786.63 \$4,490.85 \$1,727.25 \$75.00 \$825.00 \$110.00 \$300.00

TOTAL COST PROJECT NO. 3 = \$14,854.93

Timber Sale:	Black Jack			Timbe	Sale No.	341-12-07
Road Segment:	V1 to V2				Vacate	10+10 stations
_						0.19 miles
PROJECT NO. 5	5					
Road Vacating						
Construct Waterbars		9.00	ea. @	\$25.00	per ea. =	\$225.00
Construct Tanktrap		1.00	ea. @	\$75.00	per ea. =	\$75.00
Remove culverts		2.00	ea. @	\$75.00	per ea. =	\$150.00
Prism obliteration and ou	itslope road	8.00	hr. @	\$165.00	per hr. =	\$1,320.00
Fill narrowing		4.00	hr. @	\$165.00	per hr. =	\$660.00
Grass seed and fertilize	areas of disturbed soil.	0.50 a	cres @	\$220.00	per acre =	\$110.00
Mulch		0.50 a	cres @	\$600.00	per acre =	\$300.00

PROJECT NO. 4 TOTAL COST = \$2,840.00

Timber Sale:	Black Jack			Timber Sale	No.:	341-12-07
Road Segment:	V2 to V3			Vac	ate: 12+10) stations
					0.23	miles
PROJECT NO.	5					
Vacating & Trail Res	storation					
Road Narrowing to 55" v	vidth	9.00	sta.@	\$250.00 persta	=	\$2,250.00
Restore trail junctions		5.00	hr. @	\$165.00 per hr.	=	\$825.00
Construct Waterbars		9.00	ea. @	\$25.00 perea	. =	\$225.00
Construct Tanktrap		1.00	ea. @	\$75.00 perea	. =	\$75.00
Grass seed and fertilize	areas of disturbed soil.	0.50 a	cres @	\$220.00 peraci	re =	\$110.00
Mulch		0.50 a	cres @	\$600.00 perac	re =	\$300.00_

PROJECT NO. 5 TOTAL COST = \$3,785.00

Move-In & Equipment Cleaning

Timber Sale: Black Jack Sale Number: 341-12-07

	e-way)	AVE SPEED	(mph)	7	,	(1
041-170	LOWBOY HAUL (One-way)		NOAD .	Main	Lines	Steep	Cracker
Iadilidei	LOWE	DIST.	(mi)	6		ć))

						Within				Within	
	EQUIPMENT	-quipment	Base	Woods	Pilot	Area	Begin	End	Total	Area	Total
8	DESCRIPTION	Cleaning	Cost	Cost (Cars	Move	Mileage I	Mileage	Miles	Cost	Cost
0	Drill & Compressor		\$0.00	\$0.00		\$46.00	0.00	0.00	0.00	\$0.00	\$0.00
0	Brush Cutter		\$0.00	\$0.00		\$4.00	0.00	0.00	0.00	\$0.00	\$0.00
. 	Graders		\$300.00	\$180.00		\$3.65	0.00	4.00	4.00	\$14.60	\$494.60
0	Loader (Small)		\$0.00	\$0.00	\vdash	\$3.55	0.00	0.00	0.00	\$0.00	\$0.00
1	Loader (Med. & Large)		\$414.39	\$258.75	\vdash	\$9.00	0.00	0.00	0.00	\$0.00	\$673.14
H	Rollers (smooth/grid) & Compactor	S	\$308.59	\$201.25		\$5.00	0.00	4.00	4.00	\$20.00	\$529.84
0	Excavators (Small)	\$0	\$0.00	\$0.00		\$22.00	0.00	0.00	0.00	\$0.00	\$0.00
0	Excavators (Med.)	\$	\$0.00	\$0.00		\$35.50	0.00	0.00	0.00	\$0.00	\$0.00
1	Excavators (Large)	\$1,000	\$466.14	\$289.80	Н	\$44.80	0.00	1.00	1.00	\$44.80	\$1,800.74
0	Tired Backhoes/Skidders	\$0	\$0.00	\$0.00		\$3.00	0.00	0.00	0.00	\$0.00	\$0.00
0	fractors (D6)	\$	\$0.00	\$0.00	7	\$7.10	0.00	0.00	0.00	\$0.00	\$0.00
0	Fractors (D7)	\$0	\$0.00	\$0.00	7	\$11.30	0.00	0.00	0.00	\$0.00	\$0.00
1	Fractor (D8)	\$1,000	\$473.80	\$271.40	7	\$15.10	0.00	1.00	1.00	\$15.10	\$1,760.30
<u>ო</u>	Dump Truck (10 cy +)		\$350.00	\$210.00		\$2.85	0.00	4.00	4.00	\$34.20	\$594.20
0	Dump Truck (Off Hiway)		\$0.00	\$0.00	_	\$4.75	0.00	0.00	0.00	\$0.00	\$0.00
0	Water Truck (1500 Gal)		\$0.00	\$0.00		\$2.85	0.00	0.00	0.00	\$0.00	\$0.00
7	Water Truck (2500 Gal)		\$111.67	\$67.00		\$2.85	0.00	0.00	0.00	\$0.00	\$178.67

\$6,031.49

TOTAL MOVE-IN COSTS:

CRUISE REPORT Blackjack 341-12-07

1. CRUISE DESIGN AND SAMPLING INTENSITY:

The cruise design assumed a Coefficient of Variation (CV%) of 50%, an average stand diameter of 12 inches, a desired sampling error (SE%) of 11% and a minimum sample size of 100 grade trees. Pre-cruise plots indicated that 5 to 6 grade trees per plot, and the desired minimum sample size could be realized with 21 variable radius measure plots using a 40 BAF prism.

2. SAMPLING METHOD AND SAMPLE SIZE:. 23 Plots were laid out on a 5 chain x 7.5 chain grid. Plots falling on or near existing roads or no-harvest areas were offset 1 chain. 121 trees were measured and graded. This produced an acceptable cumulative sampling error of 9.2%.on the Douglas-fir volume

3. TREE MEASUREMENT AND GRADING:

All (grade plot) sample trees were measured and graded following Columbia River Log Scale grade rules and favoring 40 foot segments.

All plot trees were measured and graded following Columbia River Log Scale grade rules and favoring 40 foot segments.

a) Height Standards:

Total tree heights were measured to the nearest foot. Bole heights were calculated to a six inch top.

- b) **Diameter Standards:** Diameters were measured outside bark at breast height to the nearest inch.
- c) **Form Factors** were measured for each grade tree using a form point of 16 feet.

4. DATA PROCESSING

Prepared by:

- a) **Volumes and Statistics**, Cruise and grown forward volume estimates, and sampling statistics, were derived from Super Ace 2008 cruise software.
- b) **Deductions:** Two percent of the volume was subtracted from the computed volumes to account for hidden defect and breakage.

5. Cruisers:	The sale	was cruise	ed by ODF	cruisers N.	Agalzoff an	d M. Savag	e on
September 24	4, 2011					_	

TC PS	TATS				JECT OJECT		STICS CKJACK			PAGE DATE	1 10/24/2011
TWP	RGE	SC TRAC	T	TYPE		AC	CRES	PLOTS	TREES	CuFt	BdFt
01N	06	09 01		0001			104.00	23	121	S	W
					TREES		ESTIMATED TOTAL		PERCENT SAMPLE		
		PLOTS	TREES		PER PLOT		TREES		TREES		
TOT	AL	23	121		5.3						
	COUNT OREST NT NKS	23	121		5.3		14,540		.8		
				STA	ND SUM	MARY					
		SAMPLE	TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
		TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
DOU	IG FIR	116	131.7	16.8	101	49.3	201.7	33,654	33,314	7,749	7,749
WHE	EMLOCK	2	3.0	14.5	94	0.9	3.5	499	499	123	123
R AL	LDER	2	4.6	11.8	47	1.0	3.5	263	263	84	84
GR F		1	.5	26.0	138	0.3	1.7	368	307	86	86
TOT	AL	121	139.8	16.6	99	51.6	210.4	34,784	34,383	8,042	8,042
CON		CE LIMITS OF 1.1 TIMES O	F THE SAMP OUT OF 100 T		ME WILL	BE WIT	HIN THE SAI	MPLE ERRO	OR		
CL	68.1	COEF	F		SAMPL	E TREE	S - BF	#	OF TREES	REQ.	INF. POP.
SD:	1.0	VAR.	% S.E.%	L	OW	AVG	HIGH		5	10	15
DOU	IG FIR	82.7	7.7		408	442	476				
WHE	EMLOCK	12.9	12.0		145	165	185				
	LDER	122.6	114.8			150	322				
GR F		02.4	7.		(0.1	12.1	167		270	<i>(</i> 0	2.1
ТОТ	AL	83.4	7.6		401	434	467		278	69	31
CL	68.1	COEF	F		SAMPL	E TREE	S - CF	#	OF TREES	REQ.	INF. POP.
SD:	1.0	VAR.		L	OW	AVG	HIGH		5	10	15
	JG FIR	75.5			94	101	108				
	EMLOCK				34	41	48				
	LDER	125.0	117.0			49	107				
GR F		76.0	6.9		93	99	106		231	58	26
		***************************************				100000	100				
	68.1	COEF			TREES		шон	7	F OF PLOTS		INF. POP.
SD:	1.0	VAR.9		L	OW	AVG	HIGH		5	10	15
	IG FIR	86.2			108 1	132	156 5				
	EMLOCK LDER	332.2 413.4			1	5	9				
GR F		479.6			•	0	1				
TOT		87.2	18.6		114	140	166		317	79	35
CI	68.1	COEF	F		BASAL	AREA/A	CRE		# OF PLOTS	REO	INF. POP.
SD:	1.0	VAR.		I	OW	AVG	HIGH	,	5	10	15
	JG FIR	44.9			182	202	221			77:3	
	EMLOCK				1	3	6				
	LDER	331.3			1	3	6				
GR I		479.6				2	4			21	p.
ТОТ	TAL	44.5	9.5		190	210	230		83	21	9
	68.1	COEF			NET BI			1	# OF PLOTS		INF. POP.
SD:	210	VAR.			OW	AVG	HIGH		5	10	15
	JG FIR	43.2		3	30,249	33,314	36,379				
	EMLOCK				147	499	851 465				
	LDER	359.4 479.6			62	263	465 620				
GR I	1K	479.6	102.2			307	020				

TC PS	ГАТS				PROJEC' PROJEC		TISTICS CKJACK			PAGE DATE	2 10/24/2011
TWP	RGE	SC	TRACT	TYP	E	A	CRES	PLOTS	TREES	CuFt	BdFt
01N	06	09	01	0001			104.00	23	121	S	W
CL	68.1		COEFF		NET	BF/ACRE			# OF PLOT	ΓS REQ.	INF. POP.
SD:	1.00		VAR.	S.E.%	LOW	AVG	. HIGH		5	10	15
тот	AL		41.7	8.9	31,332	34,383	37,434		72	18	8

TC	PSPCSTGR		Sı	pecies,	Sort G	rade - Boar	d Fo	ot Vo	olume	es (P	roject	:)							
T01	IN R06W S09	Ту000	01 10	04.00		Project: Acres		CKJ 104.(ACK							Page Date Time		1 /24/2 :34:4	011
Spp	S So Gr T rt ad	% Net BdFt	Bd. Ft	. per Acre	: Net	Total Net MBF	L	og Sca	Net Boale Dia.		oot Volu	Log Log 21-30		36-99	Ln Ft	Avera Dia In	Bd	g CF/ Lf	Logs Per /Acre
DF DF DF DF	CU 2M 3M 4M	54 38 8	1.5	18,360 12,704 2,591 33,654	18,092 12,631 2,591	1,882 1,314 269 3,465	0	92 100 42	59 7	41 2 23	28	2 1 45	1 1 19	97 98 7		13 15 8 6		0.00 1.88 0.70 0.33	4.7 52.0 115.9 89.1 261.8
WH WH	3M 4M	81 19		408 91	408	42 9		100	800 N			100		100	40 27 33	9 6		0.78 0.34 0.60	3.0 3.0 6.1
GF GF	Totals 2M 3M Totals	61 39	24.5	250 118 368	189 118 307	20 12 32		20	80	100		16	20	100 80	40	18 9	400 125	2.87 0.92	.5
RA RA	2M 4M	60 40	10.7	158 105 263	158 105 263	16 11 27		100	100	02	75	25 10	0	100	40 20 22		240 23	1.90 0.37 0.72	.7 4.6 5.3
Tota		700	1.2	34,784	34,383	3,576	0	43	34	23	2	5	3	90	33	9	125	0.89	274.5

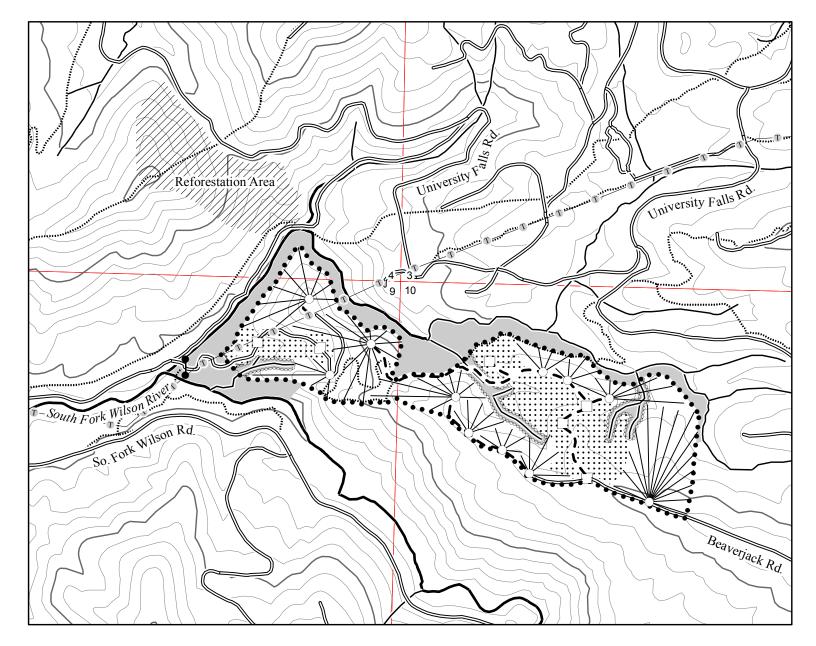
TC PLOGSTVB Log Stock Table - MBF Page 1 104.00 T01N R06W S09 Ty0001 Project: **BLCKJACK** Date 10/24/2011 Acres 104.00 Time 2:34:41PM % So Gr Log Def Net Volume by Scaling Diameter in Inches Gross Net rt de Len T **MBF MBF** 10-11 12-13 14-15 16-19 20-23 24-29 30-39 40+ % Spc 2-3 4-5 8-9 Spp 18 18 DF 2M 24 18 .5 21 21 DF 2M 28 21 .6 22 DF 2M 32 22 22 .6 57 DF 2M 40 1,849 1.5 1,821 52.6 394 503 637 231 .3 11 11 DF 3M 26 12 10.5 2 2 2 DF 30 3M .1 32 18 18 .5 9 9 DF 3M 3.2 35 1.0 35 DF 3M 36 36 38 13 13 .4 13 DF 3M 231 443 470 53 13 24

40 1,240 1,235 35.6 DF 3M 10 .3 10 12 10 DF 4M 8 .2 8 DF 14 8 4M 17 17 .5 17 DF 16 4M 23 .7 23 DF 4M 18 23 17 .5 17 17 DF 4M 20 DF 28 .8 23 5 22 28 4M 1 DF 4M 23 1 .0 DF 24 14 14 .4 14 4M .7 DF 24 24 26 24 4M 9 9 DF 28 9 .3 4M 47 1.3 47 DF 30 47 4M DF 32 14 .4 14 4M 14 39 DF 4M 34 39 1.1 39 19 .5 19 DF 4M 36 19 252 57 DF Totals 3,500 1.0 3,465 96.9 1 544 452 475 478 526 679 20 42 42 81.7 22 WH 3M 40 5 9.8 5 WH 4M 26 5 WH 8.5 4 4M 28 4 52 9 20 22 Totals WH 52 1.5 20 GF 24.5 20 61.5 2M 40 26 7.7 2 2 GF 3M 34 2 10 GF 10 30.8 3M 40 10 32 .9 10 20 GF Totals 16.7 2 38 16 16 60.1 RA 40 16 2M

TC PLO	GSTVB					Log	Stock Tal	ole	- MBI	7								
T01N R	R06W S09	Ту000	01 104	4.00		Proj Acre		LC	CKJAC 104.						Page Date Time	10/	2 /24/20 34:411	
S	So Gr	Log	Gross	Def	Net	%		ľ	Net Volu	me by	Scaling	Diam	eter in I	nches				
Spp T	rt de	Len	MBF	%	MBF	Spc	2-3 4-5		6-7	8-9	10-11 12	2-13	14-15	16-19	20-23	24-29	30-39	40+
RA	4M	18	8	(8	29.9			8									
RA	4M	1 30	3		3	10.0			3									
RA	Total	s	27		27	.8			11			16						
Total	All Speci	es	3,618	1.2	3,576	100.0		1	567	472	497	504	526	698	252	57		

TC PSTNDSUM		Stand Table Summary	Page Date:	1 10/24/2011
T01N R06W S09 Ty0001	104.00	Project BLCKJACK	Time:	2:34:42PM
		Acres 104.00	Grown Year:	

DF																
DF		DBH			Av	080.031.0000.000.			Net	Net	100.000.000	Cu.Ft.	Bd.Ft.	Tons		MBF
DF 10 3 85 86 9.566 5.22 9.57 13.0 60.0 3.55 125 574 369 130 6 DF 11 3 85 70 7.906 5.22 7.91 14.5 60.0 3.27 115 474 340 119 4 DF 12 2 85 86 40.29 3.48 6.64 14.1 50.0 2.67 94 332 278 98 3 DF 13 5 86 99 9.434 8.70 18.7 5.0 7.60 8.37 294 12.26 18.37 294 12.2 4.00 4.00 2.07 1.469 515 2.1 DF 16 5 89 111 6.288 12.17 16.73 29.4 118.8 14.00 401 1.988 1.456 511 20 DF 17 6 8.8 11.2 15.73<	DF	8	2	83	68	9.964	3.48	9.96	4.0	15.0	1.12		149	117	41	16
DF 11 3 85 70 7.906 5.22 7.91 14.5 60.0 3.27 115 474 340 119 4 DF 12 2 85 86 99 9.434 8.70 18.87 14.7 59.0 7.93 278 1,113 825 289 11 DF 14 5 86 102 8.134 8.70 16.27 18.0 76.0 8.37 294 1,236 870 305 12 DF 16 5 86 102 8.70 13.70 24.4 106.4 9.53 334 1,457 991 348 15 DF 16 5 89 111 6.228 8.70 12.7 16.04 9.53 334 1,457 991 348 15 DF 17 6 8.81 122 6.620 10.43 15.45 270 11.29 11.87 416 <td< td=""><td>DF</td><td>9</td><td>3</td><td>84</td><td>72</td><td>11.810</td><td>5.22</td><td></td><td>7.7</td><td>36.7</td><td>2.60</td><td>91</td><td>433</td><td>271</td><td>95</td><td>45</td></td<>	DF	9	3	84	72	11.810	5.22		7.7	36.7	2.60	91	433	271	95	45
DF	DF	10	3	85	86	9.566	5.22	9.57	13.0	60.0	3.55	125	574			60
DF	DF	11	3	85	70	7.906	5.22	7.91	14.5	60.0	3.27					49
Decoration	DF	12		85	10000000	4.429	3.48		14.1	100 100 100 100 100 100 100 100 100 100				18.8		35
DF 15 8 8 7 106 11.337 13.91 22.67 21.9 92.5 14.12 496 2.097 1,469 515 21 DF 16 5 89 111 6.228 8.70 13.70 24.4 106.4 9.53 334 1,457 991 348 115 DF 17 6 88 112 6.620 10.43 15.45 27.0 112.9 11.87 14.16 1,743 33.3 18 1,456 511 20 DF 19 7 88 116 6.183 12.17 16.73 29.4 118.8 14.00 491 1,988 1,456 511 20 DF 20 8 8.71 16.73 13.91 18.33 32.4 134.3 16.95 595 2,463 1,763 619 29 2.46 1,763 619 29.7 21.6 8.87 116 3.933 10.43<	DF	13		86	99	9.434			20%		1			1		116
DF 16 5 89 111 6.228 8.70 13.70 24.4 106.4 9.53 334 1,457 991 348 15 DF 17 6 88 112 6.620 10.43 15.45 27.0 112.9 11.87 416 1,743 1,234 433 18 DF 18 7 89 119 6.689 12.17 16.73 29.4 11.88 14.00 491 1,988 1,456 511 20 DF 19 7 88 116 6.889 12.17 16.90 31.2 121.7 14.12 496 1,934 1,469 515 20 DF 20 8 87 122 6.377 13.91 18.33 32.4 13.02 437 1,996 1,534 475 20 DF 21 6 87 115 3.617 10.43 10.54 41.5 136.9 12.48	DF	14	5	86	102	8.134	8.70	16.27	18.0		ı			l		129
DF 17 6 88 112 6.620 10.43 15.45 27.0 112.9 11.87 416 1,743 1,234 433 18 DF 18 7 89 119 6.889 12.17 16.73 29.4 118.8 14.00 491 1,988 1,456 511 20 DF 19 7 88 116 6.183 12.17 16.73 29.4 118.8 14.40 491 1,984 1,469 515 20 DF 20 8 87 122 6.377 13.91 18.33 32.4 134.3 16.95 595 2,463 1,763 619 25 DF 21 6 88 124 4,338 10.43 10.54 41.5 1769 12.248 438 1,461 1,354 475 190 DF 23 6 87 115 3.617 10.43 9.64 43.2 190.6	DF	15			106				110.000.000.000		100 100 100 100					218
DF 18 7 89 119 6.889 12.17 16.73 29.4 118.8 14.00 491 1,988 1,456 511 20 DF 19 7 88 116 6.183 12.17 15.90 31.2 121.7 14.12 496 1,934 1,469 515 20 DF 20 8 87 122 6.377 13.91 18.33 32.4 13.02 457 1,996 1,354 475 20 DF 21 6 87 116 3.953 10.43 10.54 41.5 176,9 12.48 438 1,864 1,298 455 19 DF 22 6 87 116 3.953 10.43 10.64 41.5 176,9 12.48 438 1,284 435 199 DF 24 7 8.8 122 3.571 12.17 10.20 49.1 214.0 14.29 501	DF	16	5	89	111	6.228	8.70	13.70	24.4							
DF 19 7 88 116 6.183 12.17 15.90 31.2 121.7 14.12 496 1,934 1,469 515 20 DF 20 8 87 122 6.377 13.91 18.33 32.4 134.3 16.95 595 2,463 1,763 619 25 DF 21 6 87 116 3.953 10.43 12.29 37.2 162.4 13.02 457 1,996 1,354 475 20 DF 22 6 87 116 3.953 10.43 10.54 41.5 1769 12.48 438 1,864 1,298 455 19 DF 23 6 87 115 3.617 10.43 9.64 43.2 190.6 11.87 416 1,838 1,234 433 19 DF 24 7 8 122 3.571 12.17 10.00 49.11 11.81	DF					200-01										181
DF 20 8 87 122 6.377 13.91 18.33 32.4 134.3 16.95 595 2,463 1,763 619 255 DF 21 6 88 124 4.338 10.43 12.29 37.2 162.4 13.02 457 1,996 1,354 475 20 DF 22 6 87 116 3.953 10.43 10.54 41.5 176.9 12.48 438 1,864 1,298 455 19 DF 24 7 88 122 3.875 12.17 9.41 53.3 240.6 14.30 502 2,264 1,488 522 233 DF 25 7 87 122 3.571 12.17 10.20 49.1 214.0 14.29 501 2,184 1,486 521 22 35 DF 265.5 8.68 305 1,377 903 317 14 14 60	DF	18		89	119	l			29.4							207
DF 21 6 88 124 4.338 10.43 12.29 37.2 162.4 13.02 457 1,996 1,354 475 20 DF 22 6 87 116 3.953 10.43 10.54 41.5 176,9 12.48 438 1,864 1,298 455 19 DF 23 6 87 115 3.617 10.43 9.64 43.2 190.6 11.87 416 1,838 1,234 433 19 DF 24 7 88 122 3.875 12.17 941 53.3 240.6 11.87 416 1,888 522 223 DF 25 7 87 122 3.571 12.17 10.20 49.1 214.0 14.29 501 2,184 1,486 521 222 23 DF 25 7 87 122 3.571 12.17 10.20 49.1 214.0 14.29	DF	19		88	116	6.183	12.17				400 10000000000					201
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DF 23 6 87 115 3.617 10.43 9.64 43.2 190.6 11.87 416 1,838 1,234 433 19 DF 24 7 88 122 3.875 12.17 9.41 53.3 240.6 14.30 502 2,264 1,488 522 23 DF 26 4 87 122 3.571 12.17 10.20 49.1 214.0 14.29 501 2,184 1,486 521 22 DF 26 4 87 125 1.887 6.96 5.19 58.7 265.5 8.68 305 1,377 903 317 14 DF 26 4 87 122 3.50 67.1 297.5 6.69 235 1,041 696 244 10 DF 28 1 88 122 .758 3.48 2.27 61.1 261.7 3.96 139 595 <td>DF</td> <td></td> <td></td> <td></td> <td></td> <td>l</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>a</td> <td></td> <td>208</td>	DF					l								a		208
DF 24 7 88 122 3.875 12.17 9.41 53.3 240.6 14.30 502 2,264 1,488 522 23 DF 25 7 87 122 3.571 12.17 10.20 49.1 214.0 14.29 501 2,184 1,486 521 22 DF 26 4 87 125 1.887 6,96 5.19 58.7 265.5 8.68 305 1,377 903 317 14 DF 27 3 86 128 1.312 5.22 3.50 67.1 297.5 66.69 235 1,041 696 244 10 DF 28 1 88 122 .758 3.48 2.27 61.1 261.7 3.96 139 595 412 145 6 DF 30 4 87 136 1.417 6.96 4.25 78.4 373.3 9.50	DF												-			194
DF 25 7 87 122 3.571 12.17 10.20 49.1 214.0 14.29 501 2,184 1,486 521 222 DF 26 4 87 125 1.887 6.96 5.19 58.7 265.5 8.68 305 1,377 903 317 144 DF 27 3 86 128 1,312 5.22 3.50 66.1 297.5 6.69 235 1,041 696 244 10 DF 28 1 88 122 .407 1.74 1.22 61.6 276.7 2.14 75 338 223 778 48 160 139 595 412 145 6 DF 30 4 87 136 1.417 6.96 4.25 78.4 373.3 9.50 333 1,587 988 347 166 DF 31 2 86 115 .623 3.48	DF				100000000000000000000000000000000000000	0.000 0.000 0.000			100000000000000000000000000000000000000		080/38020034 1/1					191
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DF 31 2 84 143 .664 3.48 1.99 84.7 386.7 4.80 169 770 500 175 8 DF 32 2 86 115 .623 3.48 1.56 91.8 396.0 4.07 143 617 424 149 66 DF 40 2 84 144 .399 3.48 1.20 144.4 708.3 4.92 173 847 512 180 8 DF Totals 116 86 101 131.697 201.74 257.08 30.1 129.6 220.85 7,749 33,314 22,968 8,059 3,46 WH 14 1 91 93 1.627 1.74 3.25 17.8 75.0 1.85 58 244 193 60 2 WH Totals 2 89 94 3.044 3.48 6.09 20.2 82.0 3.93 <td>DF</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>that common a second</td> <td></td> <td></td> <td>1000000</td> <td></td> <td>62</td>	DF										that common a second			1000000		62
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WH 14 1 91 93 1.627 1.74 3.25 17.8 75.0 1.85 58 244 193 60 2 WH 15 1 87 95 1.417 1.74 2.83 22.9 90.0 2.08 65 255 216 68 2 WH Totals 2 89 94 3.044 3.48 6.09 20.2 82.0 3.93 123 499 409 128 5 GF 26 1 82 138 .472 1.74 1.42 60.9 216.7 1.89 86 307 197 90 3 GF Totals 1 82 138 .472 1.74 1.42 60.9 216.7 1.89 86 307 197 90 3 RA 9 1 78 40 3.937 1.74 3.94 5.7 20.0 .62 23 79	DF	40	2	84	144	.399	3.48	1.20	144.4	708.3	4.92	173	847	512	100.0	88
WH 15 1 87 95 1.417 1.74 2.83 22.9 90.0 2.08 65 255 216 68 22 WH Totals 2 89 94 3.044 3.48 6.09 20.2 82.0 3.93 123 499 409 128 5 GF 26 1 82 138 .472 1.74 1.42 60.9 216.7 1.89 86 307 197 90 3 GF Totals 1 82 138 .472 1.74 1.42 60.9 216.7 1.89 86 307 197 90 3 RA 9 1 78 40 3.937 1.74 3.94 5.7 20.0 .62 23 79 65 24 RA 22 1 82 86 .659 1.74 1.32 46.5 140.0 1.68 61 184 1	DF	Totals	116	86	101	131.697	201.74	257.08	30.1	129.6	220.85	7,749	33,314	22,968	8,059	3,465
WH Totals 2 89 94 3.044 3.48 6.09 20.2 82.0 3.93 123 499 409 128 5 GF 26 1 82 138 .472 1.74 1.42 60.9 216.7 1.89 86 307 197 90 3 GF Totals 1 82 138 .472 1.74 1.42 60.9 216.7 1.89 86 307 197 90 3 RA 9 1 78 40 3.937 1.74 3.94 5.7 20.0 .62 23 79 65 24 RA 22 1 82 86 .659 1.74 1.32 46.5 140.0 1.68 61 184 175 64 1 RA Totals 2 79 47 4.595 3.48 5.25 16.0 50.1 2.31 84 263 240 87 2	WH	14	1	91	93	1.627	1.74	3.25	17.8	75.0	1.85	58	244	193	60	25
GF 26 1 82 138 .472 1.74 1.42 60.9 216.7 1.89 86 307 197 90 3 GF Totals 1 82 138 .472 1.74 1.42 60.9 216.7 1.89 86 307 197 90 3 RA 9 1 78 40 3.937 1.74 3.94 5.7 20.0 .62 23 79 65 24 RA 22 1 82 86 .659 1.74 1.32 46.5 140.0 1.68 61 184 175 64 1 RA Totals 2 79 47 4.595 3.48 5.25 16.0 50.1 2.31 84 263 240 87 22	WH	15	1	87	95	1.417	1.74	2.83	22.9	90.0	2.08	65	255	216	68	27
GF Totals 1 82 138 .472 1.74 1.42 60.9 216.7 1.89 86 307 197 90 3 RA 9 1 78 40 3.937 1.74 3.94 5.7 20.0 .62 23 79 65 24 RA 22 1 82 86 .659 1.74 1.32 46.5 140.0 1.68 61 184 175 64 1 RA Totals 2 79 47 4.595 3.48 5.25 16.0 50.1 2.31 84 263 240 87 2	WH	Totals	2	89	94	3.044	3.48	6.09	20.2	82.0	3.93	123	499	409	128	52
RA 9 1 78 40 3.937 1.74 3.94 5.7 20.0 .62 23 79 65 24 RA 22 1 82 86 .659 1.74 1.32 46.5 140.0 1.68 61 184 175 64 1 RA Totals 2 79 47 4.595 3.48 5.25 16.0 50.1 2.31 84 263 240 87 2	GF	26	1	82	138	.472	1.74	1.42	60.9	216.7	1.89	86	307	197	90	32
RA 22 1 82 86 .659 1.74 1.32 46.5 140.0 1.68 61 184 175 64 1 RA Totals 2 79 47 4.595 3.48 5.25 16.0 50.1 2.31 84 263 240 87 2	GF	Totals	1	82	138	.472	1.74	1.42	60.9	216.7	1.89	86	307	197	90	32
RA 22 1 82 86 .659 1.74 1.32 46.5 140.0 1.68 61 184 175 64 1 RA Totals 2 79 47 4.595 3.48 5.25 16.0 50.1 2.31 84 263 240 87 2	RA	9	1	78	40	3.937	1.74	3.94	5.7	20.0	.62	23	79	65	24	8
		100	-			0.000 0.000 0.000			10 40 00		72.0		184		64	19
Totals 121 96 00 120 909 210 42 260 94 20 9 127 4 229 00 9 042 24 292 22 914 9 264 2 57	RA	Totals	2	79	47	4.595	3.48	5.25	16.0	50.1	2.31	84	263	240	87	27
Totals 121 86 99 139.808 210.43 269.84 29.8 127.4 228.98 8,042 34,383 23,814 8,364 3,57	Totals		121	86	99	139.808	210.43	269.84	29.8	127.4	228.98	8,042	34,383	23,814	8,364	3,576



LOGGING PLAN

Legend

- • Timber Sale Boundary
- → Roads
- New Construction
- Recreation Trail
- Type F Stream
- Type N Stream
- Unposted Stream Buffer
- Posted Stream Buffer
- Electric Transmission Lines
- Cable Landing
- Tractor Landing
- ::::: Tractor Logging Area
- Cable Logging Area
- 400 Foot Contour Band
- 80 Foot Contour Band
- Sections
- Gate

FOR TIMBER SALE CONTRACT # 341-12-07 **BLACKJACK**

PORTIONS OF SECTIONS 4, 9, & 10, T1N, R6W, W.M. TILLAMOOK COUNTY, OREGON

> Forest Grove District GIS November, 2011

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

APPROXIMATE NET ACRES **CABLE** TRACTOR 72 32

1:12,000

1 inch = 1,000 feet

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