

Timber Sale Appraisal Bale Out Thin

Sale WO-341-2016-23-

District: West Oregon Date: May 27, 2015

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$183,481.74	\$0.00	\$183,481.74
		Project Work:	(\$48,287.00)
		Advertised Value:	\$135,194.74



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District: West Oregon Date: May 27, 2015

Timber Description

Location: Portions of Section 19, T10S, R8W, and portions of Sections 11, 14, and 24, T10S, R9W, W.M., Lincoln County, Oregon.

Stand Stocking: 40%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)	
Douglas - Fir	11	0	95	

Volume by Grade	3S	4S	Total	
Douglas - Fir	1,074	460	1,534	
Total	1,074	460	1,534	

5/27/15

Comments: Pond Values Used: 1st Quarter Calendar Year 2015.

Western Hemlock and Other Conifers Stumpage Price = Douglas-fir bid price.

Western redcedar and Other Cedars Stumpage Price = Douglas-fir bid price.

Red Alder and Other Hardwoods Stumpage Price = Douglas-fir bid price.

SCALING COST ALLOWANCE = \$5.00/MBF

FUEL COST ALLOWANCE = \$3.00/Gallon

LOG HAUL:

Costed to Philomath.

HAULING COST ALLOWANCE:

Hauling costs equivalent to \$780 daily truck cost.

Other Costs (with Profit & Risk to be added): Intermediate Supports/Tail Trees: 20 trees @ \$100/tree = \$2,000 Branding & Painting: 1,534 MBF @ \$1.00/MBF = \$1,534 TOTAL Other Costs (with Profit & Risk to be added) = \$3,534

Other Costs (No Profit & Risk added): Invasive Species Equipment Cleaning: \$2,500 Additional swing yarding cost: 9.25 hours @ \$100/hr = \$925 Firewood Sorting: 5 landings @ \$100/landing = \$500 TOTAL Other Costs (No Profit & Risk added) = \$3,925

SLASH DISPOSAL None.

5/27/15



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District: West Oregon Date: May 27, 2015

Logging Conditions

Combination#: 1 Douglas - Fir 24.38%

Logging System: Track Skidder Process: Stroke Delimber

yarding distance: Short (400 ft) downhill yarding: No

tree size: Small / Thinning 10in (90 Bft/tree), 18-20 logs/MBF

loads / day: 7.5 bd. ft / load: 3500

cost / mbf: \$120.84

machines: Stroke Delimber (B)

Combination#: 2 Douglas - Fir 20.73%

Logging System: Cable: Small Tower <=40 **Process:** Stroke Delimber

yarding distance: Short (400 ft) downhill yarding: No

tree size: Small / Thinning 10in (90 Bft/tree), 18-20 logs/MBF

loads / day: 6.5 bd. ft / load: 3500

cost / mbf: \$246.15

machines: Log Loader (A)

Stroke Delimber (A)
Tower Yarder (Small)

Combination#: 3 Douglas - Fir 35.63%

Logging System: Cable: Small Tower <=40 **Process:** Stroke Delimber

yarding distance: Medium (800 ft) downhill yarding: No

tree size: Small / Thinning 10in (90 Bft/tree), 18-20 logs/MBF

loads / day: 6 bd. ft / load: 3500

cost / mbf: \$266.67

machines: Log Loader (A)

Stroke Delimber (A) Tower Yarder (Small)

Combination#: 4 Douglas - Fir 19.26%

Logging System: Cable: Small Tower <=40 **Process:** Stroke Delimber

yarding distance: Long (1,500 ft) downhill yarding: No

tree size: Small / Thinning 10in (90 Bft/tree), 18-20 logs/MBF

loads / day: 5 bd. ft / load: 3500

cost / mbf: \$320.00

machines: Log Loader (A)

Stroke Delimber (A) Tower Yarder (Small)



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District: West Oregon Date: May 27, 2015

Logging Costs

Operating Seasons: 2.00

Slash Disposal: \$0.00

Profit Risk: 12%

Project Costs: \$48,287.00

Other Costs (P/R): \$3,534.00

Other Costs: \$3,925.00

Miles of Road

Road Maintenance:

\$8.27

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	2.0	3.5	



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District: West Oregon Date: May 27, 2015

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas - Fir									
\$237.13	\$8.68	\$5.72	\$117.00	\$2.30	\$44.50	\$0.00	\$5.00	\$2.56	\$422.89

Specie	Amortization	Pond Value	Stumpage	Amortized	
Douglas - Fir	\$0.00	\$542.50	\$119.61	\$0.00	



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District: West Oregon Date: May 27, 2015

Summary

Amortized

Specie	MBF	Value	Total	
Douglas - Fir	0	\$0.00	\$0.00	

Unamortized

Specie	MBF	Value	Total	
Douglas - Fir	1,534	\$119.61	\$183,481.74	

Gross Timber Sale Value

Recovery: \$183,481.74

Prepared By: Joe Goldsby Phone: 541-929-9168

SUMMARY OF ALL PROJECT COSTS

Sale Name:	Bale Out Thin			Date: Time:	April 2015 15:44	
Project #1 - New	Construction			-	_	
Road Segment		<u>Length</u>		Cost		
B3 to B4		8.3 sta		\$1,551		
B5 to B6		6.3 sta		\$1,755		
C2 to C3		2.0 sta		\$633		
E2 to E3		1.9 sta		\$1,052		
E5 to E6		3.2 sta		\$830		
L1		NA		\$373		
	TOTALS	8.3 sta			_	\$6,194
	IOTALO	0.0 014				ψ0,104
Project #2 - Impro	ovements					
Road Segment		<u>Length</u>		Cost		
A to A1		318.7 sta		\$13,481		
B to B1		3.6 sta		\$409		
B2 to B3		8.7 sta		\$973		
C to C1		78.0 sta		\$2,500		
D to D1		22.6 sta		\$1,284		
D1 to D2		7.4 sta		\$556		
D1 to D3		14.8 sta		\$2,199		
D4 to D5		7.4 sta		\$1,709		
E to E1		2.1 sta		\$501		
E4 to E5		6.7 sta		\$1,071 \$5,064		
E4 to E7 E8 to E9		41.0 sta 12.4 sta		\$5,064 \$1,284		
E10 to E11		12.4 sta 11.2 sta		\$1,284 \$1,186		
EIUIUEII		11.2 Sta		φ1,100		
	TOTALS	534.6 sta			_	\$32,217
Project #3 - Brusl	hing					\$2,325
D :						
·	Harvest Activities k and turnaround rock					\$4,083
Moyo in			Cost	On site may	0	
Move in Excavator			<u>Cost</u> \$753	On-site mov \$121	<u> </u>	
Dump Truck			\$170			
Crawler tractor, D-	7 or equiv		\$547			
Grader, Cat 14-G	•		\$340			
Backhoe	or equiv.		\$681	\$10		
Brusher			\$753			
			Ψ. σσ		<u> </u>	
	TOTAL					\$3,468
			(GRAND TOTA	AL	\$48,287

04/16/2015

Date

Compiled by J. Goldsby

SALE ROAD	Bale Out Thi A to A1	n		Project #	2	LENGTH	improve			318.7 sta
0.33	IG AND GRUE 3 acres	BBING @		\$1,010.24	/acre		=	\$333	road	
0.20	+80 to Pt. A1) O acres	@		\$1,010.24	/acre		=	\$202	landings	
(Sta. 140-	+00 & 314+20))			TOTAL C	LEARING A	AND GRUB	BING =		\$535
IMPROVI										
Slide rem										
(with exca Sta. 264+	•	1	hr	@	\$127.68	/hr	=	\$128		
End-haul			hr	@	\$68.88		=	\$69		
	Naste Area		СУ	@	\$0.38		=	\$15		
Slough re	moval and		•							
sidecast p										
	60 to 290+10	_	hrs	@	\$127.68		=	\$383		
End-haul		_	hrs	@	\$68.88		=	\$207		
	Naste Area	120	су	@	\$0.38	/cy	=	\$46		
Re-open (with doze										
229+40 to		3	hrs	@	\$135.80	/hr	=	\$407		
	318+70 (A1)	11.9		@	\$45.27		=	\$539		
Shape su				<u> </u>	*	,		****		
(with road										
0+00 to 1	11+60	111.6	sta	@	\$17.16	/sta	=	\$1,915		
111+60 to		117.8	sta	@	\$13.75		=	\$1,620		
229+40 to		62.0		@	\$11.55		=	\$716		
291+40 to		15.4		@	\$9.90		=	\$152		
	318+70 (A1)	11.9	sta hr	@ @	\$11.55 \$135.80		=	\$137		
Re-open	ianding/ id @ Pt. A1	1	Ш	w	φ133.60	/111	=	\$136		
(with doze										
(11111111111111111111111111111111111111	<i>5.</i> 1,					TOTAL IN	IPROVEME	NT =	;	\$6,470
EXCAVA.	TION	With D7	dozor	or oquivolor	\ 4					
Construct	_		hr	or equivaler @	\$135.80	/hr	_	\$407		
	§ 314+20)	3	111	@	φ133.60	/111	=	φ 4 07		
						TOTAL EX	XCAVATION	I =		\$407
SURFAC					Size	Cost/yd				
Spot rock 0+00 to 2			18	cy of	1 1/2-0"	\$24.00	=	\$432		
(50 CY/m	i)									
20+00 to (50 CY/m	i)			cy of	3-0"	\$22.31	=	\$402		
37+20 to (50 CY/m			180	cy of	1 1/2-0"	\$24.00	=	\$4,320		
291+40 to (50 CY/m	306+80		18	cy of	3-0"	\$22.31	=	\$402		
(50 0 17111	'/					TOTAL SI	JRFACING	COST :	= :	\$5,556
SPECIAL	PROJECTS									
Clean out			20	culverts	@	\$25.67	ea =	\$513		
(0+00 to 2			20	34	<u> </u>	Ψ20.01		ΨΟΙΟ		
(inlets and	,									
,	,					TOTAL SE	PECIAL PRO	DJECTS	S =	\$513
Compiled	by:	J. Golds	•							4. 46.
Date:		Apr 16, 2	2015			GRAND T	OTAL ====	=>	\$	13,481

SALE ROAD	Bale Out B to B1	Thin	Project #	2	LENGTH	improve		3.6 sta		
CLEARING AND GRUBBING										
0.10	o acres	@	\$1,010.24	/acre		=	\$101 landing			
				TOTAL C	LEARING A	AND GRUBBI	ING =	\$101		
IMPROVE	EMENT									
Re-open (with doze		1.0 hr	@	\$135.80	/hr	=	\$136			
Re-open I (with doze	•	1.0 hr	@	\$135.80	/hr	=	\$136			
Shape su (with road	rface	3.6 sta	@	\$9.90	/sta	=	\$36			
,	,				TOTAL IM	IPROVEMEN	T =	\$308		
Compiled	bv:	J. Goldsby								
Date:	, -	Apr 16, 2015			GRAND T	OTAL =====	:>	\$409		

SALE ROAD	Bale Out T B2 to B3	hin hin	Project #	2	LENGTH	improve		8.7 sta
CLEARIN	G AND GR	UBBING						
	acres	@ @	\$1,010.24 \$1,010.24			= =	\$242 road \$101 landing	
				TOTAL C	LEARING A	AND GRUBBI	NG =	\$343
IMPROVE	MENT							
Re-open re		8.7 sta	@	\$45.27	/sta	=	\$394	
(with doze Shape sur (with road	face	8.7 sta	@	\$11.55	/sta	=	\$100	
					TOTAL IM	IPROVEMEN	T =	\$494
EXCAVAT Construct (Sta. 5+30	landing	With D7 dozer 1 hr	or equivalen @	st \$135.80	/hr	=	\$136	
(018. 0100	,				TOTAL EX	KCAVATION	=	\$136
Compiled Date:	by:	J. Goldsby Apr 16, 2015			GRAND T	OTAL ====	:>	\$973

SALE ROAD	Bale Out B3 to B4	Thin	Project #	1	LENGTH	const		8.3 sta
CLEARIN	G AND GR	UBBING						
0.46	acres	@	\$1,010.24	/acre		=	\$465 road	
0.10	acres	@	\$1,010.24	/acre		=	\$101 landing	
				TOTAL C	LEARING /	AND GRUBBI	NG =	\$566
EXCAVAT	TION	With D7 dozer	or equivaler	nt				
Construct	road	8.3 sta	@	\$74.28	/sta	=	\$617	
Construct	landing	2 hr	@	\$135.80	/hr	=	\$272	
Shape sub (with road	•	8.3 sta	@	\$11.55	/sta	=	\$96	
					TOTAL EX	XCAVATION =	=	\$985

GRAND TOTAL ====>

\$1,551

Compiled by: J. Goldsby Date: Apr 16, 2015

SALE ROAD	Bale Out B5 to B6	Thin	Project #	1	LENGTH	const		6.3 sta
CLEARIN	G AND GR	UBBING						
0.43	3 acres	@	\$1,010.24	/acre		=	\$434 road	
0.10	acres	@	\$1,010.24	/acre		=	\$101 landing	
				TOTAL C	LEARING	AND GRUBBI	NG =	\$535
EXCAVA ⁻	ΓΙΟΝ	With D7 dozer	or equivaler	nt				
Construct	road	6.3 sta	@	\$74.28	/sta	=	\$468	
Construct	landing	2 hr	@	\$135.80	/hr	=	\$272	
Extra drift (with doze		3 hr	@	\$135.80	/hr	=	\$407	
Shape su (with road		6.3 sta	@	\$11.55	/sta	=	\$73	
•	,				TOTAL E	XCAVATION =	=	\$1,220
Compiled	by:	J. Goldsby						04 7 55
Date:		Apr 16, 2015			GRAND 1	TOTAL =====	>	\$1,755

SALE ROAD	Bale Out 7 C to C1	Γhin	Project #	2	LENGTH	improve	9	78.0 sta
IMPROVI Shape su (with road	ırface	78.0 sta	@	\$9.90	/sta	=	\$772	
					TOTAL IN	1PROVE	MENT =	\$772
SURFAC Spot rock (50 CY/m	ζ	72	cy of	Size 1 1/2-0"	Cost/yd \$24.00 TOTAL S	= URFACII	\$1,728 NG COST =	\$1,728
Compiled Date:	l by:	J. Goldsby Apr 16, 2015			GRAND 1	OTAL =	===>	\$2,500

SALE Bale Out Thin Project # 1 LENGTH const 2.0 sta ROAD C2 to C3 **CLEARING AND GRUBBING** 0.11 acres @ \$1,010.24 /acre \$111 road 0.10 acres @ \$1,010.24 /acre \$101 landing = TOTAL CLEARING AND GRUBBING = \$212 **EXCAVATION** With D7 dozer or equivalent 2.0 sta @ Construct road \$74.28 /sta \$149 2 hr Construct landing @ \$135.80 /hr \$272 = TOTAL EXCAVATION = \$421

GRAND TOTAL =====>

\$633

J. Goldsby

Apr 16, 2015

Compiled by:

Date:

Compiled Date:	d by:	J. Goldsby Apr 16, 2015			GRAND 1	ΓΟΤAL =	===>	\$1,284
					TOTAL IN	MPROVE	MENT =	\$1,284
Shape s	,	22.6 sta	@	\$11.55	/sta	=	\$261	
Re-open (with doz	road	22.6 sta	@	\$45.27	/sta	=	\$1,023	
SALE ROAD	Bale Out D to D1	Thin	Project #	2	LENGTH	improve	9	22.6 sta

SALE ROAD	Bale Out 1 D1 to D2	-hin	Project #	2		LENGT	H improve	9		7.4 sta
IMPROVE	MENT									
Re-open re (with doze		7.4 sta	@		\$45.27	/sta	=	\$335		
Re-open la (with doze	•	1 hrs	@	\$	135.80	/hr	=	\$136		
Shape sur (with road		7.4 sta	@		\$11.55	/sta	=	\$85		
						TOTAL	MPROVE	MENT =	\$	556
Compiled Date:	by:	J. Goldsby Apr 16, 2015				GRAND	TOTAL =	===>	\$:	556

SALE ROAD		Bale Out Thin D1 to D3		2	LENGTH	improve			14.8 sta
CLEARIN	IG AND GF	RUBBING							
0.4	1 acres	@	\$1,010.24	/acre		=	\$414	road	
0.2	0 acres	@	\$1,010.24	/acre		=	\$202	landings	
					\$616				
IMPROVI	EMENT								
Re-open (with doze		14.8 sta	@	\$67.90	/sta	=	\$1,005		
Re-open	,	3 hrs	@	\$ 135.80	/hr	=	\$407		
Shape su (with road	ırface	14.8 sta	@	\$11.55	i /sta	=	\$171		
					TOTAL IN	MPROVEME	ENT =	;	\$1,583
Compiled Date:	l by:	J. Goldsby Apr 16, 2015			GRAND 1	ΓΟΤΑL ===	==>	:	\$2,199

SALE ROAD	Bale Out T D4 to D5	hin	Project #	2	LENGTH	improve		7.4 sta
CLEARIN	IG AND GRU	JBBING						
0.1	8 acres	@	\$1,010.24	/acre		=	\$182 road	
0.1	0 acres	@	\$1,010.24	/acre		=	\$101 landing	
			TOTAL CLEARING AND GRUBBING =					\$283
IMPROVI	EMENT							
Re-open	road	7.4 sta	@	\$74.28	/sta	=	\$550	
(with doze	•		_					
Re-open (with exca		3 hrs	@	\$127.68	/hr	=	\$383	
Extra drift	•	2 hrs	@	\$135.80	/hr	=	\$272	
	loading area	_	@	\$ 135.80		=	\$136	
at Point D)5							
(with doze Shape su	•	7.4 sta	@	\$11.55	/sta	=	\$85	
(with road		777 0.0	O	ψσ	7010		ΨΟΟ	
					TOTAL IM	IPROVEMEN	т_	¢1 426
					TOTAL IIV	II NOVLIVIEIN	1 -	\$1,426
Compiled	l by:	I Coldoby						
Compiled Date:	ι by.	J. Goldsby Apr 16, 2015			GRAND T	OTAL ====	>	\$1,709

SALE ROAD	Bale Out E to E1	Thin	Project #	2	LENGTH	improve		2.1 sta	
_	G AND GR		•						
	2 acres) acres	@ @	\$1,010.24 \$1,010.24			=	\$121 road \$101 landing		
		_	* ,			ND ODLIDDI		\$222	
				TOTAL C	OTAL CLEARING AND GRUBBING =				
IMPROVE	MENT								
Re-open (with doze		2.1 sta	@	\$67.90	/sta	=	\$143		
Re-open I (with doze	anding	1 hrs	@	\$ 135.80	/hr	=	\$136		
(With GOZO	,, ,				TOTAL IM	IPROVEMEN	IT =	\$279	
Compiled Date:	by:	J. Goldsby Apr 16, 2015			GRAND T	OTAL ====	:>	\$501	

SALE ROAD	Bale Out E2 to E3	Thin	Project #	1	LENGTH	const		1.9 sta
CLEARIN	G AND GR	UBBING						
0.13	acres	@	\$1,010.24	/acres		=	\$131 road	
0.10	acres	@	\$1,010.24	/acre		=	\$101 landing	
				TOTAL C	LEARING A	AND GRUBBI	NG =	\$232
EXCAVAT	ION	With D7 dozer	or equivalen	nt				
Construct	road	1.9 sta	@	\$74.28	/sta	=	\$141	
Construct	landing	2 hr	@	\$135.80	/hr	=	\$272	
Extra drift/ clear & gru		3 hr	@	\$135.80	/hr	=	\$407	
					TOTAL EX	KCAVATION =	=	\$820
Compiled Date:	by:	J. Goldsby Apr 16, 2015			GRAND T	OTAL =====	>	\$1,052

SALE ROAD	Bale Out Th E4 to E5	nin	Project #	2		LENGTH	improve		6.7 sta	
0.18	G AND GRU acres acres	BBING @ @	\$1,010.24 \$1,010.24				= =	\$182 road \$101 landing		
				TOTAL CLEARING AND GRUBBING =						
IMPROVE	MENT									
Re-open re (with doze		6.7 sta	@		\$45.27	/sta	=	\$303		
Re-open la (with doze	anding	1 hrs	@	\$	135.80	/hr	=	\$136		
Shape sur (with road		6.7 sta	@		\$11.55	/sta	=	\$77		
						TOTAL IM	PROVEMENT	Γ=	\$516	
EXCAVAT	ION '	With D7 dozer	or equivaler	nt						
Construct (Sta. 4+90	•	2 hr.	@	;	\$135.80	/hr.	=	\$272		
`	,					TOTAL EX	(CAVATION =	:	\$272	
Compiled	-	J. Goldsby				65 4115 —			A 4 A7 4	
Date:	1	Apr 16, 2015				GRAND T	OTAL =====	•	\$1,071	

SALE ROAD	Bale Out Thin E5 to E6		Project #	1	LENGTH	const		3.2 sta	
CLEARIN	G AND GF	RUBBING							
	3 acres	@	\$1,010.24			=	\$182 road		
0.10	acres	@	\$1,010.24	/acre		=	\$101 landing		
TO				TOTAL C	TAL CLEARING AND GRUBBING =				
EXCAVA	ΓΙΟΝ	With D7 dozer	or equivaler	nt					
Construct	road	3.2 sta	@	\$74.28	/sta	=	\$238		
Construct	landing	2 hr	@	\$135.80	/hr	=	\$272		
					TOTAL EX	XCAVATION =	=	\$510	
IMPROVE	MENT								
Shape sur (with road		3.2 sta	@	\$11.55	/sta	=	\$37		
					TOTAL IM	IPROVEMEN ⁻	Γ=	\$37	
Compiled Date:	by:	J. Goldsby Apr 16, 2015			GRAND T	OTAL =====	>	\$830	

SALE ROAD	Bale Out Thi E4 to E7	n	Project #	2	LENGTH	improve			41.0 sta
CLEARIN	G AND GRUB	BING							
	acres	@	\$1,010.24	/acre		=	\$212	road	
	acres	@	\$1,010.24			=		landing	
		-	. ,				·	J	
				TOTAL CI	LEARING A	AND GRUBE	BING =		\$313
IMPROVE	MENT								
Excavate	250 CY	4 hrs	@	\$127.68	/hr	=	\$511		
(Sta. 20+6	60 to 21+90)								
(with exca	vator)								
End-haul (50 CY	2 hrs	@	\$68.88		=	\$138		
Drift 200 C		4 hrs	@	\$135.80	/hr	=	\$543		
(with doze	•								
Re-open r									
(with doze	•	33.3 sta	@	\$45.27	/cto	_	¢1 507		
(Pt. E4 to	33+30) 30 to Pt. E7)	7.7 sta	@ @	\$67.90		=	\$1,507 \$523		
Re-open la	,	2 hrs	@	\$135.80		=	\$272		
(with doze	_	2 1110	O	ψ100.00	7111	_	Ψ2.72		
Shape sur	•								
(with road									
(Pt. E4 to	33+30)	33.3 sta	@	\$18.17	/sta	=	\$605		
(Sta. 33+3	30 to Pt. E7)	7.7 sta	@	\$11.55	/sta	=	\$89		
					TOTAL IM	IPROVEMEN	NT =		\$4,188
									¥ 1,122
SURFACI	NG			Size	Cost/yd				
Patch rock	<	18	cy of	jaw run	\$21.30	=	\$383		
					TOTAL SI	JRFACING (- T20°		\$383
					TOTAL	JINI ACING (5031 =		ψυσυ
SPECIAL	PROJECTS								
Clean out		7	culverts	@	\$25.67	ea =	\$180		
(inlets and	l outlets)								
					TOTAL SE	PECIAL PRO	JECTS	=	\$180
Compiled	bv:	J. Goldsby							

SALE ROAD	Bale Out E8 to E9	Thin	Project #	2	LENGTH	improve		12.4 sta
CLEARIN	IG AND GR	UBBING						
0.3	4 acres	@	\$1,010.24	/acre		=	\$343 road	
0.1	0 acres	@	\$1,010.24	/acre		=	\$101 landing	
				TOTAL CL	EARING A	ND GRUBBI	NG =	\$444
IMPROVI	EMENT							
Re-open (with doze		12.4 sta	@	\$45.27	/sta	=	\$561	
Re-open	landing	1 hrs	@	\$135.80	/hr	=	\$136	
Shape su (with road		12.4 sta	@	\$11.55	/sta	=	\$143	
					TOTAL IM	1PROVEMEN	NT =	\$840
Compiled Date:	by:	J. Goldsby Apr 16, 2015			GRAND T	OTAL ====	=>	\$1,284

SALE ROAD	Bale Out ⁻ E10 to E1		Project #	2	LENGTH	improve			11.2 sta
CLEARIN	G AND GR	UBBING							
0.31	acres	@	\$1,010.24	/acre		=	\$313	road	
0.10) acres	@	\$1,010.24	/acre		=	\$101	landing	
				TOTAL CI	EARING A	ND GRUBBI	NG =		\$414
IMPROVE	MENT								
Re-open r (with doze		11.2 sta	@	\$45.27	/sta	=	\$507	•	
Re-open I	anding	1 hrs	@	\$ 135.80	/hr	=	\$136	;	
Shape sur (with road		11.2 sta	@	\$11.55	/sta	=	\$129		
					TOTAL IM	IPROVEMEN	IT =		\$772
Compiled Date:	by:	J. Goldsby Apr 16, 2015			GRAND T	OTAL ====	=>		\$1,186

SALE Bale Out Thin Project # 1 LENGTH const

ROAD L1

MAY BE CONSTRUCTED BY LOGGER

CLEARING AND GRUBBING

0.10 acres @ \$1,010.24 /acre = \$101 landing

TOTAL CLEARING AND GRUBBING = \$101

IMPROVEMENT

Construct swing landing 2 hrs @ \$ 135.80 /hr = \$272

(with dozer)

TOTAL IMPROVEMENT = \$272

Compiled by: J. Goldsby

Date: Apr 16, 2015 **GRAND TOTAL =====> \$373**

SALE ROAD Bale Out Thin

Project # 3 Roadside Brushing

\$2,325

Light Moderate Moderate

Road Segment	Stations	Cost/sta.	Total
A to A1 (Sta. 37+20 to 111+60)	74.4	\$11.36	\$845
A to A1 (Point C to 197+50)	40.2	\$15.15	\$609
C to C2	57.5	\$15.15	\$871
TOTAL	97.7 sta		\$2,325

Compiled by: Date:

J. Goldsby Apr 16, 2015

GRAND TOTAL =====>

SALE ROAD	Bale Out Thin	- Pro	oject #4 P	ost Harvest					
SURFACI				Size	Cost/CY				
Landing F	atch Rock A to A1 (Sta. 140+		cy of	1½-0"	\$24.00	=	\$	432	
	C to C1 (15 landing	135	cy of	1½-0"	\$24.00	=	\$	3,240	
Junction F	Patch Rock								
	Point B	9	cy of	1½-0"	\$24.00	=	\$	216	
					TOTAL SUR	FACIN	IG CO	ST =	\$3,888
MISCELL Tank Trap	ANEOUS PRO	JECTS							
Tank Trap	A to A1	0.5	hr	@	\$77.00 /	/hr =		\$39	
	(Sta. 229+40)								
	Point B2	0.5	hr	@	\$77.00 /	/hr =		\$39	
	Point B5	0.5		@	\$77.00 /			\$39	
	Point C2	0.5		@	\$77.00 /			\$39	
	Point D	0.5	hr	@	\$77.00 /	/hr =		\$39	
				TOTAL MIS	CELLANEOU	S PRC)JECT:	S =	\$195
Compiled	by:	J. Goldsby							
Date:		Apr 16, 201	5		GRAND TOT	TAL ==	===>		\$4,083

SUMMARY OF MAINTENANCE COST

SALE Bale Out Thin - Final Maintenance Cost Estimate
ROAD (Costed in appraisal, not in project costs)

Grading Move-in \$ 681

Road Segment	Length	Cost/Sta	Cost	Mileage
A to A1 (interim grading)				
Sta. 0+00 to 111+60	111.6	\$17.16	\$1,915	2.11
A to A1				
Sta. 0+00 to 111+60	111.6	\$17.16	\$1,915	2.11
Sta. 111+60 to 229+40	117.8	\$13.75	\$1,620	2.23
Sta.229+40 to 291+40	62.00	\$11.55	\$716	1.17
Sta. 291+40 to 306+80	15.4	\$9.90	\$152	0.29
C to C1	78.0	\$9.90	\$772	1.48
Totals	496.4		\$7,090	9.40

Maintenance Rock:

	Volume	Cost/CY	Cost
1½-0" 3-0"	180 27	\$24.00 \$22.31	\$4,320 \$602
Grand Total			\$12,693
TS Volume	1,534	MBF	
Cost / MBF =			\$8.27

NOTES:

Rock Haul Cost Computation

SALE NAME: ROAD NAME: ROCK SOURCE: Route:			CLASS: 9 CY tr	ruck	015	
TIME Computation:						
Road speed time fac	ctors:					
1. 55 M		MRT		13.7	minutes	
2. 50 M		MRT			minutes	
3. 45 M		MRT			minutes	
4. 40 M	MPH 26.2	MRT		39.3	minutes	
5. 35 M	1PH	MRT		0.0	minutes	
6. 30 M	1PH	MRT		0.0	minutes	
7. 25 M	1PH 2.4	MRT		5.8	minutes	
8. 20 M	1PH 6.0	MRT		18.0	minutes	
9. 15 M	1PH	MRT		0.0	minutes	
10. 10 M	1PH	MRT		0.0	minutes	
11. 05 M	1PH	MRT		0.0	minutes	
Dump or spread time per RT Total hauling cycle time for this setting (100% efficiency) 77.30 minutes						
Operator efficiency	correction	0.85		90.94	minutes	
Job efficiency corr		0.90			minutes	
Truck capacity (CY)		9.00		11.23	min/CY	
Loading time, delay	time per CY			0.25	min/CY	
TIME (minutes) per	cubic yard			11.48	min/CY	
COST per CY computa Cost of truck an		hour	I	\$68.88	/hr.	
Cost of truck an				\$1.15	/min	
Cost per CY		\$13.20	/CY			
Spread and compact	Water truck,	Grader & Rolle	er	\$1.50	/CY	
	С	ost Delivered		Cost Deliv	ered	
Size Cost/Yd	(Pit) w	/o processing		with proce		
1½ - 0" \$ 10.8	30	\$24.00		\$25.50		
3 - 0" \$ 9.1	.1	\$22.31		\$23.81		
Jaw Run \$ 8.1	.0	\$21.30		\$22.80		
Pit-Run 7.4	13	\$20.63		\$22.13		

Note: Pit costs November 28, 2012 Rickard Rock Quarry

TIMBER CRUISE REPORT

- 1. Sale Area Location: Portions of Section 19, T10S, R8W, and Sections 11, 14, & 24, T10S, R9W, W.M., Lincoln County, Oregon.
- 2. Fund Distribution:

a. Fund BOF 43%; CSL 57%

b. Tax Code

3. Sale Acreage by Area:

Area	Treatment	Gross Acres	Acreage Adjustment	Net Sale Acres	Acreage Comp. Method	Closure
1	Partial Cut	52	Cruise	48	Ortho photo, GIS, GPS	n/a
2	Partial Cut	66	Cruise	52	Ortho photo, GIS, GPS	n/a
3	Partial Cut	29	Cruise	24	Ortho photo, GIS, GPS	n/a
4	Partial Cut	127	Cruise	109	Ortho photo, GIS, GPS	n/a

- **4.** Cruisers and Cruise Dates: The sale area was cruised by Joe Goldsby in August and October of 2013.
- 5. Cruise Method and Computation: The sale consists of four partial cut areas that were cruised using variable plot sampling. All areas were cruised using a 20 BAF. Plots were located randomly throughout the sale areas with 12 plots sampled in Area 1, 11 plots sampled in Area 2, 8 plots sampled in Area 3, and 12 plots sampled in Area 4. Trees contributing to excess basal area on each plot (above the residual basal area target of 120 ft²/acre) were measured for DBH, height, and defect. A total of 32 trees on Area 1, 38 trees on Area 2. 37 trees on Area 3, and 45 trees on Area 4 were measured. Data was entered into a variable plot density management worksheet to determine removal volumes. A standard log grade percentage was applied to the net volumes.

The pulp volumes provided in the following table represents logs over 5 inches inside bark diameter that did not meet saw log grade due to sinuosity. Pulp volumes have been provided for informational purposes and were not included in the timber sale appraisal.

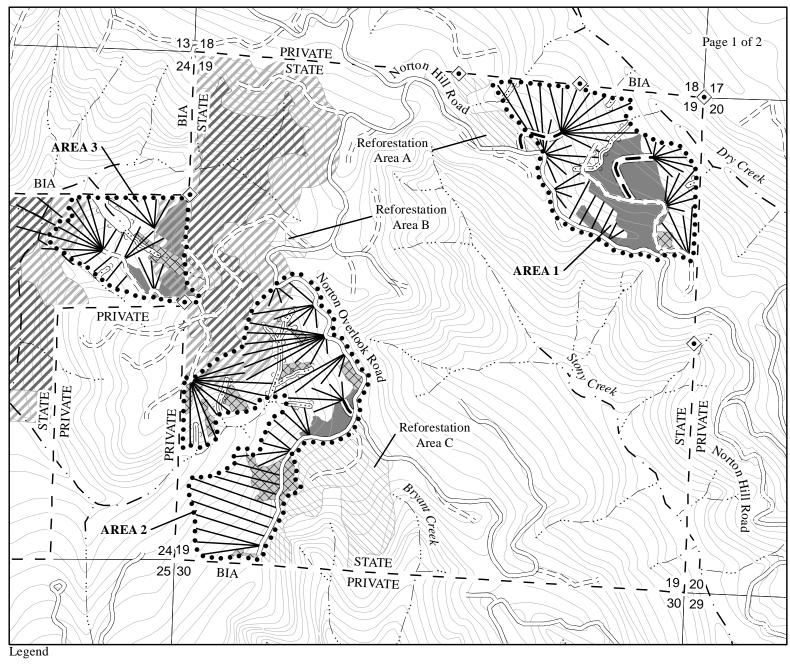
Stereo photos, digital ortho photos, LiDar data, and GPS data from a Garmin GPSmap 62s were used to map the boundaries for the sale, and ArcMap 10.1 was used to determine gross acreage.

6. Timber Description: Timber in Areas 1 and 4 is 35 year-old planted Douglas-fir. Areas 2 and 3 contain 34 year-old planted Douglas-fir. Reserved tree species detected in the unit include red alder, bigleaf maple, and western hemlock. Reserved trees were found in small amounts throughout all sale areas.

7. Total Volume (MBF) by Species and Grade:

Species	Gross Cruise Volume	D & B (Including Pulp)	D & B (MBF)	Pulp (MBF)	Net Sale Volume
Area 1					
Douglas- fir	299	9%	9	18	272
Area 2					
Douglas- fir	319	5%	3	13	303
Area 3					
Douglas- fir	152	3%	2	2	148
Area 4					
Douglas- fir	854	5%	34	9	811
Total					
Douglas- fir	1624	6%	48	42	1534

Species	DBH	Net Vol.	2-Saw	3-Saw	4-Saw	% D & B
Area 1	Grade P	ercentages		70%	30%	
Douglas-fir	11.8	272	-	190	82	9%
Area 2	Grade P	ercentages		70%	30%	
Douglas-fir	11.9	303		212	91	5%
Area 3	Grade P	Grade Percentages		70%	30%	
Douglas-fir	12.7	148		104	44	3%
Area 4	Grade P	ercentages		70%	30%	
Douglas-fir	10.5	811	1	568	243	5%
Total	Grade P	ercentages		70%	30%	
Douglas-fir	11.2	1534		1074	460	6%



Boundaries

• • • • • Timber Sale Boundary

State Forest Property Boundary

☐☐ Right of Way (Posted)

Roads

Surfaced Road

= Unsurfaced Road

New Construction

Streams

- · Type F Stream

· · · Type N Stream

Unposted Stream Buffer

Yarding Method

Tractor Yarding Area

- Cable Corridors

Marbled Murrelet Management Area

Occupied Habitat

Seasonally Restricted Buffer

Low Stocked Area Reforestation Area

Land Survey Monument

LOGGING PLAN

OF TIMBER SALE CONTRACT NO. 341-16-23 BALE OUT THIN PORTIONS OF SECTION 19, T10S, R8W,

& SECTIONS 11, 14 & 24, T10S, R9W, W.M., LINCOLN COUNTY, OREGON

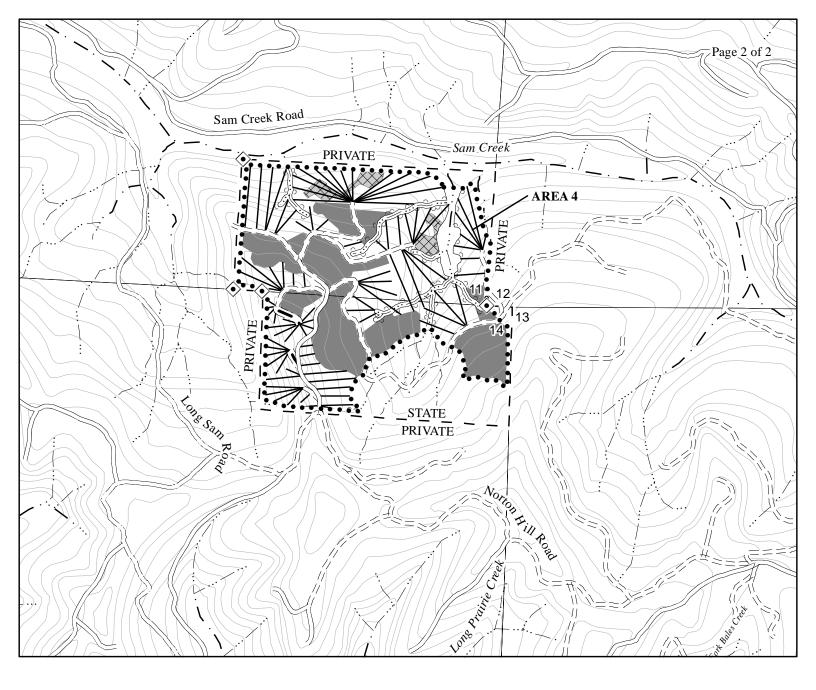
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> Scale 1:12,000

1,000 1.000 2,000 0

AREA	NET ACRES TRACTOR	
1 (PC) 2 (PC) 3 (PC) 4 (PC)	14 3 6 35	34 49 18 74
TOTAL	58	175
	Z	

Created By: Blake McKinley blake.mckinley@oregon.gov Date: 04/16/2015



Legend

Boundaries

• • • • • Timber Sale Boundary

State Forest Property Boundary

___ Right of Way (Posted)

Roads

Surfaced Road

=== Unsurfaced Road

— New Construction

Streams

· — · Type F Stream

··· — · · Type N Stream

Unposted Stream Buffer

Yarding Method

Tractor Yarding Area

Cable Corridors

Low Stocked Area

Land Survey Monument

LOGGING PLAN

OF TIMBER SALE CONTRACT NO. 341-16-23 BALE OUT THIN PORTIONS OF SECTION 19, T10S, R8W,

& SECTIONS OF SECTION 19, T10S, R8W, & SECTIONS 11, 14 & 24, T10S, R9W, W.M., LINCOLN COUNTY, OREGON

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Scale 1:12,000

1:12,000 1,000 0 1,000 2,000

AREA	NET ACRES TRACTOR	
1 (PC) 2 (PC) 3 (PC) 4 (PC)	14 3 6 35	34 49 18 74
TOTAL	58	175
	N	

Created By: Blake McKinley blake.mckinley@oregon.gov Date: 04/16/2015