

District: West Oregon Date: August 08, 2012

# cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$159,667.87	\$0.00	\$159,667.87
		Project Work:	\$(79,677.00)
		Advertised Value:	\$79,990.87

8/8/12



"STEWARDSHIP IN FORESTRY"

District: West Oregon Date: August 08, 2012

# timber description

Location: Portions of Section 34, T9S, R8W, W.M., and portions of Sections 1, 2, 12, 13, and

24, T10S, R8W, W.M., and portions of Sections 6, 18, and 19, T10S, R7W, W.M.,

Benton, Lincoln, and Polk Counties, Oregon.

Stand Stocking: 40%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)	
Douglas - Fir	11	0	96	

Volume by Grade	2S	3S	4S	Total
Douglas - Fir	17	845	537	1,399
Total	17	845	537	1,399



"STEWARDSHIP IN FORESTRY"

District: West Oregon Date: August 08, 2012

comments: Pond Values Used: 2nd Quarter Calender Year 2012.

WEIGHT SCALE CONVERSION = 8 TONS/MBF

Western Hemlock and Other conifers Stumpage Price: Use Douglas-fir bid price.

Western redcedar and Other Cedars Stumpage Price: Price per MBF divided by coversion factor (8 tons per MBF). \$25/Ton = \$200/MBF divided by 8.

Red Alder and Other Hardwoods Stumpage Price: Use Doulgas-fir bid price.

SCALING COST ALLOWANCE = \$5.00/MBF

FUEL COST ALLOWANCE = \$4.00/Gallon

LOG HAUL:

Conifer costed to Philomath.

HAULING COST ALLOWANCE Hauling costs equivalent to \$780 daily truck cost.

Other Costs (with Profit & Risk to be added): None.

Other Costs (No Profit & Risk added):
Invasive Species Equipment Cleaning: \$2,000
Non-project Road Construction: \$647
Additional On-Site Move for Logging Equipment: \$1,380
TOTAL Other Costs (No Profit & Risk added) = \$4,027

SLASH DISPOSAL None.



"STEWARDSHIP IN FORESTRY"

## Timber Sale Appraisal Green Spill Sale 341-13-59

District: West Oregon Date: August 08, 2012

## logging conditions

**combination#: 1** Douglas - Fir 88.27%

yarding distance: Medium (800 ft) downhill yarding: No logging system: Cable: Small Tower <=40 Process: Stroke Delimber

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

loads / day: 3.2 bd. ft / load: 3,500

cost / mbf: \$253.06

machines: Log Loader (A)

Stroke Delimber (A) Tower Yarder (Small)

combination#: 2 Douglas - Fir 11.73%

yarding distance: Short (400 ft) downhill yarding: No logging system: Wheel Skidder Process: Stroke Delimber

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

loads / day: 3.0 bd. ft / load: 3,500

**cost / mbf:** \$136.97

machines: Stroke Delimber (B)



"STEWARDSHIP IN FORESTRY"

District: West Oregon Date: August 08, 2012

# logging costs

Operating Seasons: 2.00 Profit Risk: 14.00%

**Project Costs:** \$79,677.00 **Other Costs (P/R):** \$0.00

**Slash Disposal:** \$0.00 **Other Costs:** \$4,027.00

## Miles of Road

Road Maintenance: \$14.47

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	3.5	

## Local Pond Values

Date	Specie	Grade	Value
8/8/12	Douglas - Fir	28	\$530.00
8/8/12	Douglas - Fir	3S	\$500.00
8/8/12	Douglas - Fir	4S	\$490.00



"STEWARDSHIP IN FORESTRY"

District: West Oregon Date: August 08, 2012

# logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas -	Fir								
\$239.44	\$15.05	\$6.27	\$67.77	\$0.00	\$45.99	\$0.00	\$5.00	\$2.88	\$382.40

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$496.53	\$114.13	\$0.00



"STEWARDSHIP IN FORESTRY"

District: West Oregon Date: August 08, 2012

## summary

## Amortized

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

## Unamortized

Specie	MBF	Value	Total
Douglas - Fir	1,399	\$114.13	\$159,667.87

## **Gross Timber Sale Value**

**Recovery:** \$159,667.87

Prepared by: Dave Wiger Phone: 541-929-3266

## **SUMMARY OF ALL PROJECT COSTS**

Sale Name: Green Spill				Date: Time:	August 9, 2012 9:36
Project #1 - Construction				riirie.	9.30
Road Segment	<u>Length</u>		Cost		
A2 to A3	6.2 sta	\$	2,697		
E3 to E4	4.1 sta	\$	5,261		
F2 to F3 (Sta. 8+20 to 11+40)	3.2 sta	\$	618		
12 10 10 (010. 0120 10 111 10)	0.2 014	Ψ	010		
TOTALS	13.5 sta			\$	8,576
Project #2 - Improvement					
Road Segment	<u>Length</u>		Cost		
A to A1	89.2 sta	\$	1,439		
B to D	239.4 sta	\$	1,917		
B1 to B2	105.4 sta	\$	1,872		
B3 to B4	11.7 sta	\$	103		
C to C1	92.8 sta	\$	17,055		
C2 to C3	8.6 sta	\$	5,349		
D to D1	116.2 sta	\$	17,434		
D2 to D3	3.6 sta	\$	2,942		
D4 to D5	2.0 sta	\$	1,928		
E to E1	311.3 sta	\$	2,170		
E1 to E2	7.6 sta	\$	989		
F to F1	145.6 sta	\$	3,424		
F2 to F3 (Sta. 0+00 to 8+20)	8.2 sta	\$	449		
F4 to F5	32.2 sta	\$	752		
F6 to F7	9.6 sta	\$	524		
TOTALS	1183.4 sta			<u>-</u> \$	58,347
TOTALS	1103.4 Sta			Φ	30,347
Project #3 - Post Harvest Activitie	<u>s</u>				
Turnaround rock				\$	9,220
Landing patch rock					
Remove temp crossing					
Tank trap					
·					
Mayain	^	oot 0-	oito ro		
Move in Excavator, Cat-225 or equiv.			site move	<u>!</u>	
Crawler tractor, D-7 or equiv.		672 \$ 488 \$	200 200		
Grader, Cat 14-G or equiv.		304 \$	80		
Vibratory Roller		304 \$	75		
Water Truck		304 \$ 199	75		
Backhoe x 3	\$ \$	912 \$	100		
Dadkiloo X o	Ψ	<b>∪1</b> Ψ	100		
TOTAL				\$	3,534

GRAND TOTAL \$ 79,677

Compiled by D. Wiger Date 08/09/2012

SALE Green Spill ROAD A to A1		- Project #2 Mixed (Yac		(Yaguina R	LENGTH aguina Road-WOYAQ00; WOYAQ100)			
				( 304)		Su	rfaced surfaced	78.9 sta 10.3 sta
IMPROVE	MENT							
Shape sur (with road	face grader 0+00 to	78.9 sta. 9 78+90)	@	\$12.28	/sta	=	\$969	
Re-open w (78+90 to		3 hrs.	@	\$121.25	/hr	=	\$364	
Shape sur (78+90 to		10.3 sta.	@	\$10.31	/sta	=	\$106	
					TOTAL	. IMPROVE	MENT	\$1,439

Compiled by: D. Wiger Date: Aug 9, 2012

GRAND TOTAL ====>

\$1,439

SALE Green Spil ROAD A2 to A3	-	et #1 itsloped				ENGTH VOYAQ150)	6.2 sta
CLEARING AND GR	JBBING						
0.15 road acre	s @	\$902.00	/acre		=	\$135	
0.10 landing ad	cres @	\$902.00	/acre		=	\$90	
			TOTAL CL	EARING A	ND GRI	JBBING =	\$225
EXCAVATION	With Excavator of	or backhoe	e & D7 doze	er or equiva	alent		
Re-construct road	2.7 sta.	@	\$66.32	/sta.	=	\$179	
(3+50 to 6+20) Reopen landing	0.5 hr.	@	\$121.25	/hr	=	\$61	
Shape subgrade	6.2 sta.	@	\$10.31		=	\$64	
(with road grader)	0.2 0.0		*	, 5 - 5 -		***	
Backfill culvert (4+90)	3 hr.	@	\$121.25	/hr	=	\$364	
				TOTAL E	XCAVA <sup>-</sup>	ΓΙΟΝ =	\$668
CULVERT - temporar	y						
Pipe - provided by ST	ATE transported by	y PURCH	ASER				
Transport, place, labo	r and hand						\$350
Transport, place, labo	i, and band						ψυυυ
SURFACING			Size	Cost/yd			
Patch Rock (2 location	ns) 54 (	cy of	Jaw run	\$26.93	=	\$1,454	
(0+60; 2+40)				TOTAL R	OCK CO	OST =	\$1,454

Compiled by: D. Wiger Date: Aug 9, 201

Date: Aug 9, 2012 **GRAND TOTAL =====> \$2,697** 

SALE Green Spill - Project #2 LENGTH 239.4 sta

ROAD B to D Surfaced, Ditched Green Mountain Road (WOGMT00)

**IMPROVEMENT** 

Shape surface 0.0 sta. @ \$12.28 /hr = \$0

ODF to grade prior to operations, two interim gradings planned in maintenance for 0+00 to 52+80

TOTAL IMPROVEMENT \$0

SURFACING Size Cost/CY

Spot rock 108 cy of  $1\frac{1}{2}$ -0" \$17.75 = \$1,917

(25 CY/Mi)

TOTAL ROCK COST = \$1,917

Compiled by: D. Wiger

Date: Aug 9, 2012 **GRAND TOTAL =====> \$1,917** 

SALE Green Spill - Project #2 LENGTH 105.4 sta
ROAD B1 to B2 Surfaced, Ditched Harmsen Road (WOHARM00)
(WOHARM100)

(WOHARM140)

**IMPROVEMENT** 

Shape surface 105.4 sta @ \$12.28 /sta = \$1,294

(with road grader)

TOTAL IMPROVEMENT \$1,294

SURFACING Size Cost/yd

Landing Rock (B2) 36 cy of Jaw run \$16.06 = \$578

TOTAL ROCK COST = \$578

Compiled by: D. Wiger

Date: Aug 9, 2012 **GRAND TOTAL =====> \$1,872** 

SALE Green Spill - Project #2 LENGTH 11.7 sta

ROAD B3 to B4 Surfaced, Outsloped (WOHARM145)

**IMPROVEMENT** 

Shape surface 11.7 sta. @ \$8.84 /sta = \$103

(with road grader)

TOTAL IMPROVEMENT \$103

Compiled by: D. Wiger

Date: Aug 9, 2012 **GRAND TOTAL =====> \$103** 

SALE ROAD IMPROVE	Green Spill C to C1	- Proje Surfac	ect #2 ced/Ditched		Bradish Bl	vd/Steere		92.8 sta
Shape sur (with road		92.8 sta.	@	\$12.28	/sta	=	\$1,140	
					TOTAL IM	PROVEN	MENT	\$1,140
(25 CY/Mi	(0+00 - 49+30)		cy of	Size 1½-0" 1½-0"	Cost/yd \$19.86 \$21.36	=	\$536 \$15,379	
3 Liit (49-	+30 - 92+60)	720	Cy Oi	1/2-0	TOTAL RO			\$15,915

Compiled by: D. Wiger Date: Aug 9, 2012

Date: Aug 9, 2012 **GRAND TOTAL =====> \$17,055** 

SALE Green Spill - Project #2 LENGTH 8.6 sta

ROAD C2 to C3 Surfaced/Outsloped (WOSTR170)

Rebuild junction and improve grade to junction.

**IMPROVEMENT** 

Shape subgrade 8.6 sta. @ \$8.84 /sta = \$76

(with road grader)

TOTAL IMPROVEMENT = \$76

**SURFACING** Size Cost/yd

4" lift (0+00 to 8+10) 180 cy of 3-0" \$23.08 \$4,154 = Curve widening rock 18 cy of 3-0" \$391 \$21.73 = Landing Rock (C3) \$728 36 cy of Jaw run \$20.23 =

TOTAL ROCK COST = \$5,273

Compiled by: D. Wiger

Date: Aug 9, 2012 **GRAND TOTAL =====> \$5,349** 

SALE ROAD	Green Spill D to D1	Surfac	ect #2 ced/Ditcheced/Outslo	-	Little Gras	s (WO	LENGTH LTG00)	116.2 sta 85.3 sta 30.9 sta
IMPROVE	EMENT					,		
Shape su Shape su (with road	rface	85.3 sta. 30.9 sta.	@	\$12.28 \$8.84	/sta /sta	= =	\$1,047 \$273	
					TOTAL IM	PROV	EMENT	\$1,320
SURFAC	ING							
				Size	Cost/yd			
Spot rock (25 CY/M	(0+00 - 85+30) ile)	45	cy of	1½-0"	\$19.86	=	\$894	
4" Lift (85	+30 - 115+70)	669	cy of	3-0"	\$21.02	=	\$14,062	
Curve wic	dening	24	cy of	3-0"	\$21.02	=	\$504	
Landing r	ock (D1)	36	cy of	Jaw run	\$18.17	=	\$654	

TOTAL ROCK COST = \$16,114

Compiled by: D. Wiger Date: Aug 9, 2012

Date: Aug 9, 2012 **GRAND TOTAL =====> \$17,434** 

SALE ROAD	Green Spill D2 to D3	- Proje Surfac	ect #2 ced/Outslo	oped	(WOLTG4	105)	LENGTH	3.6 sta
IMPROVE	EMENT							
Re-open r		1 hr.	@	\$121.25	/hr	=	\$121	
(with Doze Shape sur (with road	rface	3.6 sta.	@	\$8.84	/sta	=	\$32	
					TOTAL IM	1PRO	VEMENT	\$153
SURFACI	NG			Size	Cost/yd			
6" Lift (0+)	,		cy of cy of	3-0" Jaw run	\$21.02 \$19.67	=	\$2,081 \$708	
					TOTAL RO	OCK (	COST =	\$2,789

Compiled by: D. Wiger Date: Aug 9, 2012

Date: Aug 9, 2012 **GRAND TOTAL =====> \$2,942** 

SALE ROAD	Green Spill D4 to D5	- Proje Surfac	ect #2 ced, Outs	loped	(WOLTG4		LENGTH	2.0 sta
IMPROVE	EMENT		,	•	`	,		
Re-open i		1 hr.	@	\$121.25	/hr	=	\$121	
Shape su (with road	rface	2.0 sta.	@	\$8.84	/sta	=	\$18	
					TOTAL IM	1PROV	EMENT	\$139
SURFACI	ING							
				Size	Cost/yd			
6" Lift (0+	00 - 1+50)	54	cy of	3-0"	\$21.02	=	\$1,135	
Landing re	ock (D5)	36	cy of	Jaw run	\$18.17	=	\$654	
					TOTAL R	оск с	OST =	\$1,789

Compiled by: D. Wiger Date: Aug 9, 2012

Date: Aug 9, 2012 **GRAND TOTAL =====> \$1,928** 

SALE Green Spill - Project #2 LENGTH 311.3 sta
ROAD E to E1 Surfaced, Ditched Beaver Crk (WOBVR00) 147.3 sta
Hatchery-Fall Crk (WOHFC00) 164.0 sta

**IMPROVEMENT** 

Shape surface 0.0 sta. @ \$12.28 /sta = \$0

ODF to grade prior to operations, one interim grading planned in maintenance for 0+00 to 58+00

TOTAL IMPROVEMENT \$0

**SURFACING** 

Size Cost/yd

Spot rock (105+60-311+30) 99 cy of  $1\frac{1}{2}$ -0" \$21.92 = \$2,170

(25 CY/Mile)

TOTAL ROCK COST = \$2,170

Compiled by: D. Wiger

Date: Aug 9, 2012 **GRAND TOTAL =====> \$2,170** 

Green Spill SALE - Project #2 LENGTH 7.6 sta E1 to E2 Surfaced, Outsloped ROAD (WOHFC400) **IMPROVEMENT** Shape surface 7.6 sta. @ \$8.84 /sta = \$67 (with road grader) TOTAL IMPROVEMENT \$67 **SURFACING** Size Cost/yd Spot rock (0+00 - 7+10) 3-0" \$21.58 \$194 9 cy of = (25 CY/Mile) Landing rock (E2) \$728 36 cy of \$20.23 Jaw run

TOTAL ROCK COST =

\$922

Compiled by: D. Wiger
Date: Aug 9, 2013

Date: Aug 9, 2012 **GRAND TOTAL =====>** \$989

SALE ROAD	Green Spill E3 to E4	-	ect #1 ced, Outslop	ped	(WOHFC4		LENGTH	4.1 sta
CLEARI	NG AND GRUBB	ING						
	26 road acres 10 landing acres	@ @	\$902.00 \$902.00			=	\$235 \$90	
				TOTAL C	LEARING A	AND (	GRUBBING =	\$325
EXCAVA	ATION With	n D-7 doze	r or equivale	ent				
Construc	ct road	4.1 sta.	@	\$66.32	/sta.	=	\$272	
Construc	ct landing	1 hr.	@	\$121.25	/hr	=	\$121	
Shape so (with roa	ubgrade d grader)	4.1 sta.	@	\$10.31	/sta	=	\$42	
Compac with a ro	t subgrade ller	4.1 sta.	@	\$8.31	/sta.	=	\$34	
					TOTAL EX	(CAV	ATION =	\$469
SURFAC	CING							
				Size	Cost/yd			
8" Lift			cy of	3-0"	\$23.08	=	\$3,739	
Landing	rock (E4)	36	cy of	Jaw run	\$20.23	=	\$728	
					TOTAL RO	OCK (	COST =	\$4,467

Compiled by: D. Wiger Date:

Aug 9, 2012 GRAND TOTAL =====> \$5,261

SALE Green Spill - Project #2 LENGTH 145.6 sta Surfaced, Mixed F to F1 ROAD South Fork Rock Crk (WOSFR00) **IMPROVEMENT** Shape surface 145.6 sta. @ \$12.28 /sta \$1,788 (with road grader) Clean ditch & road 3.0 hrs. @ \$68.75 /hr \$206 (with backhoe 11+15 to 12+15) **TOTAL IMPROVEMENT** \$1,994 **SURFACING** Size Cost/yd

1½-0"

\$19.86

72 cy of

TOTAL ROCK COST = \$1,430

\$1,430

Compiled by: D. Wiger Date: Aug 9, 2012

Spot rock (0+00 - 145+60)

(25 CY/Mile)

**GRAND TOTAL =====>** \$3,424

SALE ROAD	Green Spill F2 to F3	- Project Unsurfac		sloped	(WOHFC40	00)	LENGTH Improve Construct	11.4 sta 8.2 3.2
<u>Project</u>	<u>: 1</u> :							
_	ING AND GRUBB	_ ( -	+20 to 11	,				
_	.18 road acres .10 landing acres	@ @	\$902.00 \$902.00			=	\$162 \$90	
				TOTAL C	LEARING A	ND (	GRUBBING =	\$252
EXCAV	'ATION Witl	n D-7 dozer or	equivale	ent				
Constru (8+20 to	uct road o 11+40)	3.2 sta.	@	\$66.32	/sta.	=	\$212	
Constru Shape	ict landing subgrade ad grader)	1 hr. 3.2 sta.	@ @	\$121.25 \$10.31	/hr /sta	=	\$121 \$33	
					TOTAL EX	CAV	ATION =	\$366
<u>Project</u>	<u>: 2</u> :							
IMPRO	VEMENT							
Re-ope		3 hr.	@	\$121.25	/hr	=	\$364	
Shape	•	8.2 sta.	@	\$10.31	/sta	=	\$85	
(WILLI TO	au grauer <i>)</i>				TOTAL IMP	PRO'	VEMENT	\$449

Compiled by: D. Wiger Date:

\$1,067 Aug 9, 2012 GRAND TOTAL ====>

SALE Green Spill - Project #2 LENGTH 32.2 sta F4 to F5 Surfaced, Ditched (WOSFR100) ROAD **IMPROVEMENT** Shape surface 32.2 sta. @ \$12.28 /sta \$395 (with road grader) **TOTAL IMPROVEMENT** \$395 **SURFACING** Size Cost/yd Spot rock 18 cy of 3-0" \$19.86 \$357 = (25 CY/Mile)

TOTAL ROCK COST = \$357

Compiled by: D. Wiger

Date: Aug 9, 2012 **GRAND TOTAL =====> \$752** 

SALE ROAD	Green Spill F6 to F7	- Projed Dirt, Ou	ct #2 utsloped			LEI (WOSFF	NGTH R160)	9.6 sta
IMPROVI	EMENT							
Re-open (with doze		3 hr.	@	\$121.25	/hr	=	\$364	
Construct	landing	0.5 hr.	@	\$121.25	/hr	=	\$61	
Shape su (with road		9.6 sta.	@	\$10.31	/sta	=	\$99	
					TOTAL	IMPROVEN	MENT	\$524

Compiled by: D. Wiger Date: Aug 9, 2012

Date: Aug 9, 2012 **GRAND TOTAL =====> \$524** 

SALE ROAD	Green Spill	- Project #3 Po	ost Harvest				
SURFAC	ING		Size	Cost/yd			
Turnarou	nd rock						
A-A1 78+	-50	27 cy of	3-0"	\$17.41	=	\$470	
B2		27 cy of	3-0"	\$17.41	=	\$470	
B4		27 cy of	3-0"	\$17.41	=	\$470	
C3		27 cy of	3-0"	\$19.52	=	\$527	
D1		27 cy of	3-0"	\$19.52	=	\$527	
D3		27 cy of	3-0"	\$19.52	=	\$527	
E2		27 cy of	3-0"	\$21.58	=	\$583	
E4		27 cy of	3-0"	\$21.58	=	\$583	
Landing <sub>I</sub>	oatch rock						
B1-B2 (1	0)	90 cy of	3-0"	\$17.41	=	\$1,567	
C -C1 (5)		45 cy of	1½-0"	\$19.86	=	\$894	
D - D1 (2	)	18 cy of	3-0"	\$19.52	=	\$351	
F-F1 (10)		90 cy of	1½-0"	\$17.75	=	\$1,598	
				TOTAL ROC	K COS	T =	\$8,567
MISCELI	_ANEOUS PROJEC	тѕ					
Tank trap A-A1 sta	os at Pts. F2, F6, 78+90	1.5 hr.	@	\$68.75	/hr. =	\$103	
	temporary culvert Station 4+90	8.0 hr.	@	\$68.75	/hr. =	\$550	
			TOTAL MIS	CELLANEOU	S PRO	JECTS =	\$653

Compiled by: D. Wiger Date: Aug 9, 2012

GRAND TOTAL ====>

\$9,220

### SUMMARY OF CONSTRUCTION COST FOR NON-PROJECT ROAD(S)

SALE Green Spill - Project #1 LENGTH 2.5 sta

ROAD Non-project Unsurfaced, outsloped

2 short spurs to access the west side of Area I

**CLEARING AND GRUBBING** 

0.11 road acres @ \$902.00 /acre = \$99 0.10 landing acres @ \$902.00 /acre = \$90

TOTAL CLEARING AND GRUBBING = \$189

**EXCAVATION** D7 dozer or equivalent

Construct road 2.5 sta. @ \$66.32 /sta. \$166 = Landings (2) 1 hr. @ \$121.25 /hr \$121 = Shape subgrade 6.6 sta. @ \$10.31 /sta \$68

(with road grader) TOTAL EXCAVATION = \$355

POST HARVEST ROAD CLOSURE

Waterbar and block 1.5 hr. @ \$68.75 /hr = \$103 TOTAL ROAD CLOSURE = \$103

If non-project roads are not built, it is assumed that the logging costs increase at least as much as the cost of constructing the roads. These two spurs would access the western half of Area I. Logs would need to be hot decked and swung out to the Hatchery-Fall Creek Road for loading (125' average).

Cost for these roads is included in the Other projects: No P&R portion of the contract

Compiled by: D. Wiger

Date: Aug 9, 2012 **GRAND TOTAL =====> \$647** 

### **SUMMARY OF MAINTENANCE COST**

SALE ROAD Green Spill

- Final Maintenance Cost Estimate

#### Grading

Move-in Grader, plus on-site move

384.00

Road Segment	Length	Cost/Sta	Cost	Mileage
A to A1	78.9	\$12.28	\$968.89	1.49
A to A1	10.3	\$10.31	\$106.19	0.20
A2 to A3	6.2	\$10.31	\$63.92	0.12
B to D	239.4	\$12.28	\$2,939.83	4.53
B-D 0+00 to 52+80	105.6	\$12.28	\$1,296.77	2.00 Two interim gradings
B1 to B2	105.4	\$12.28	\$1,294.31	2.00
B3 to B4	11.7	\$8.84	\$103.43	0.22
C to C1	92.8	\$12.28	\$1,139.58	1.76
C2 to C3	8.6	\$12.28	\$105.61	0.16
D to D1	85.3	\$12.28	\$1,047.48	1.62
D to D1	30.9	\$8.84	\$273.16	0.59
D2 to D3	3.6	\$8.84	\$31.82	0.07
D4 to D5	2.0	\$8.84	\$17.68	0.04
E to E1	311.3	\$12.28	\$3,822.76	5.90
E to E1 0+00 to 15+50	15.5	\$12.28	\$190.34	0.29 One interim grading
E1 to E2	7.6	\$8.84	\$67.18	0.14
F to F1	145.6	\$12.28	\$1,787.97	2.76
F2 to F3	11.4	\$10.31	\$117.53	0.22
F4 to F5	32.2	\$12.28	\$395.42	0.61
F6 to F7	9.6	\$10.31	\$98.98	0.18
Totals	1313.9		\$16,252.85	24.88

#### **Maintenance Rock**

Rock Size	Volume (CY)	Cost/CY	Cost
1½-0"	171	\$19.86	\$3,396.06

Grand Total \$20,032.91

TS Volume 1,424 MBF

Cost / MBF = \$14.07 D. Wiger

#### NOTES:

- 1. Rock to be spread prior to final grading.
- 2. Most rock will be placed on A-A1 or B-B1.
- 3. All culverts within the sale area will be inspected at inlets and outlets and have logging debris within 10' cleared.
- 4 Rock calc. = 2.426mmbf X 25 cy/mile/mmbf X 2.12 miles
- 5. Grading is one grading at completion of haul. Move-in is included.

Compiled by:

D. Wiger

### **TIMBER CRUISE SUMMARY**

Sale Name: Green Spill

341-13-59

Sale Type: Areas I, II, III, IV, and V are automark thinnings.

<u>Sale Area</u>: The sale is located in the Section 34, T9S, R8W, W.M.; Sections 1, 2, 12, 13, and 24, T10S, R8W, W.M.; and Sections 6, 18, and 19, T10S, R7W, WM, Benton, Lincoln, and Polk Counties, Oregon.

<u>Preface:</u> Small wood thins are considered to be a silvacultural treatment. Approximately 96 plots (20 per area for Areas II through V and 16 for Area I) were taken to estimate volume and grade. Half of the plots were basal area only (count) plots. The majority of the take trees were in the 10 to 13" DBH range with bole heights in the 45 to 60 foot range. Pulp grade in the cruise is primary because of sinuosity in the upper portion of the tree bole. Typically trees will have a 32 to 40 foot saw log with a 4 saw or pulp log at the top of the bole.

#### **Cruise Summary:**

MBF Volume									
Area	Gross Acres	Net Acres	Species	Gross Volume	Net Volume	% Hidden D & B	Final Adjusted Volume	Pulp	
1	24	22	Douglas-fir	117	104	. 0	104	10	
	55	52	Douglas-fir	209	174	0	174	28	
111	71	70	Douglas-fir	548	334	0	334	2	
IV	85	81	Douglas-fir	410	386	0	386	20	
V	85	79	Douglas-fir	432	401	0	401	31	
Totals	320	304	t <del>T</del>		1399		1399	91	

Net acres represent a reduction of gross acres to account for roads and stream buffers. Acres were determined using the STATE Geographic Information System and orthographic & aerial photographs.

Grade by Percent					
Area	Species	2-Saw	3-Saw	4-Saw	Pulp
l	Douglas-fir		39%	53%	9%
[]	Douglas-fir		38%	49%	14%
	Douglas-fir		68%	32%	1%
IV	Douglas-fir		54%	41%	5%
V	Douglas-fir	4%	64%	25%	7%
Combined	Douglas-fir	1%	57%	36%	6%

NOTE: Rounding may result in totals being more or less than 100%

<u>Cruise Methods</u>: Timber Sale Area – Data was taken using variable radius plots using a 20 BAF plot factor for basal area. All take trees on measure plots were measured and graded. One-half of the plots were basal area only plots. Volumes are based on a gross acre cruise, biased to miss areas of low stocking, with leave trees and take trees tallied. Gross acres where reduced to net acres for the cruise using a dot grid on aerial photos to estimate ratio of stocked to low stocked areas in the units.

<u>Tree Form</u>: A form point of 16' was used for all species. A district average form factor (89) was used for volume estimates on this sale.

<u>Measurement Standards</u>: Heights were measured to the nearest foot to a top cruise diameter of 5 inches outside bark for Douglas-fir.

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

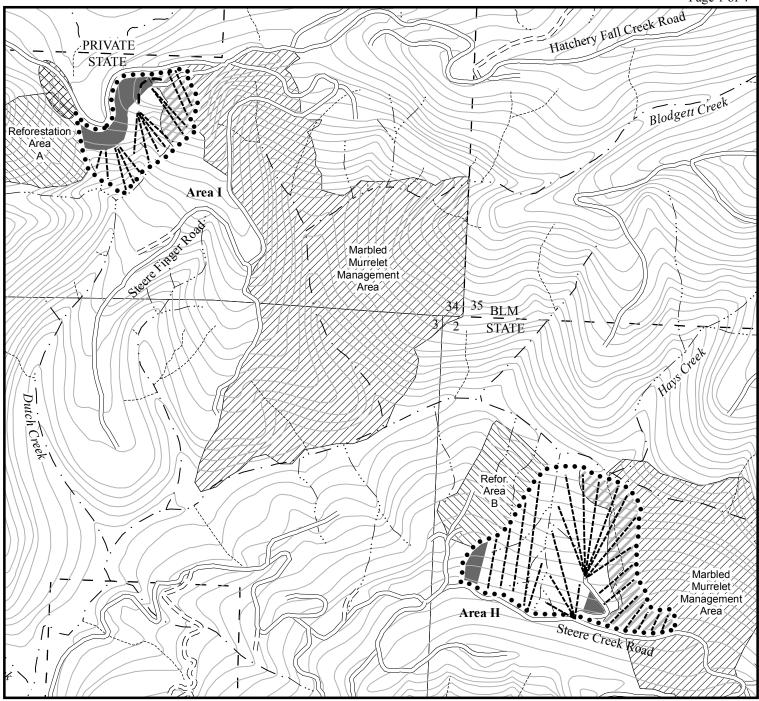
<u>Utilization Standards</u>: The minimum log diameter for Douglas-fir was 5 inches. The minimum segment length was 13 feet (12 feet plus 1 foot of trim).

Hidden Defect and Breakage: No hidden defect and breakage was used.

<u>Computation Procedures</u>: The cruise volumes were computed using SuperAce 2004. The net acreage for the cruise was 304 acres.

Cruisers/Dates: All sale areas were cruised by Wiger. All areas cruised in August-November of 2011.

Signatures:	Cruise Specialist	•		
	Unit Forester:		4A	







Monument

#### Boundaries

● ● ● ■ Timber Sale Boundary

- State Forest Property Boundary

Roads

Highway

Paved Road Surfaced Road Unsurfaced Road New Road Construction

Streams

Type F Stream Type N Stream Unknown Stream

Reforestation Area Marbled Murrelet Management Area Seasonally Restricted Buffer Cultural Resource Site

#### LOGGING PLAN

OF TIMBER SALE CONTRACT NO. 341-13-59 **GREEN SPILL** 

PORTIONS OF SECTION 34, T9S, R8W, W.M.; SECTIONS 1, 2, 12, 13 & 24, T10S, R8W, W.M.; & SECTIONS 6, 18 & 19, T10S, R7W, W.M., BENTON, LINCOLN AND POLK COUNTIES, OREGON

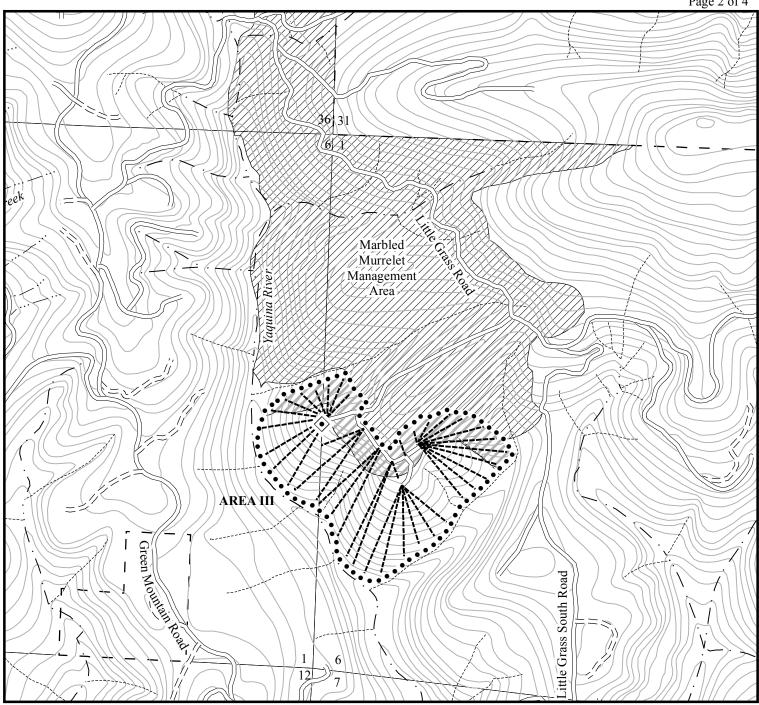
This product is for informational use and may not have been prepared for or be suitable for legal, engineering or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of this information.

1 inch = 1,000 feet

1,000 1,000 2,000



(	GROSS	NET
	ACRES	ACRES
AREA I (PC	) 24	22
AREA II (PC	) 55	52
AREA III (PC	71	70
AREA IV (PC	) 85	81
AREA V (PC	) 85	79
TOTAL	320	304









#### Monument

#### Boundaries

● ● ■ Timber Sale Boundary

- County Line

- State Forest Property Boundary

Roads

Highway I Paved Road Surfaced Road = = Unsurfaced Road New Road Construction

Streams

Type F Stream

Type N Stream Unknown Stream

Marbled Murrelet Management Area Seasonally Restricted Buffer

#### LOGGING PLAN

OF TIMBER SALE CONTRACT NO. 341-13-59 **GREEN SPILL** 

PORTIONS OF SECTION 34, T9S, R8W, W.M.; SECTIONS 1, 2, 12, 13 & 24, T10S, R8W, W.M.; & SECTIONS 6, 18 & 19, T10S, R7W, W.M., BENTON, LINCOLN AND POLK COUNTIES, OREGON

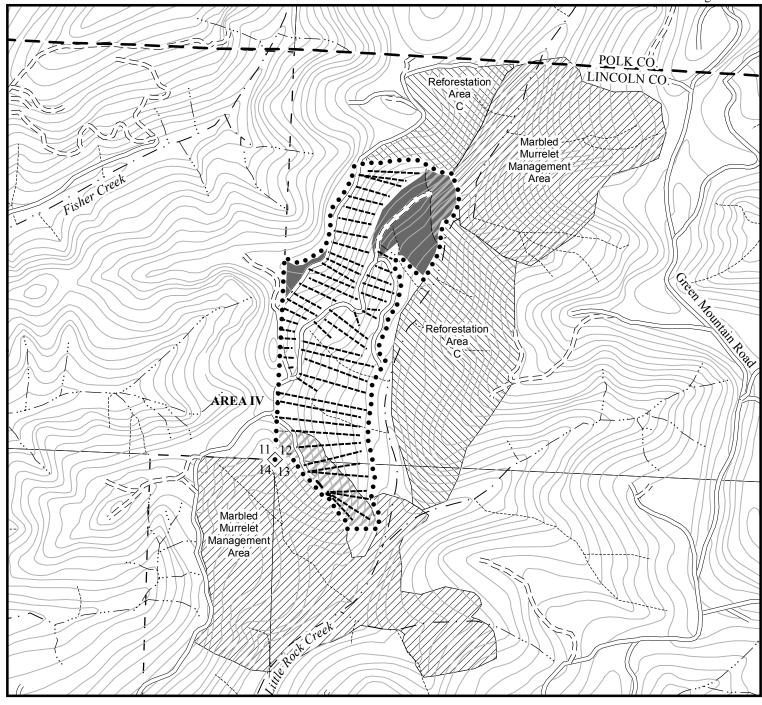
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1  inch = 1,000	feet
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1,000 0 1,000 2,000



	GROSS	NEI
	ACRES	ACRES
AREA I (PO	C) 24	22
AREA II (PO	C) 55	52
AREA III (PO	C) 71	70
AREA IV (Po	C) 85	81
AREA V (PO	C) 85	79
TOTAL	320	304





Cable Corridors
Tractor Yarding Area



Monument

Boundaries

● ● ● ■ Timber Sale Boundary

- County Line

- State Forest Property Boundary

Roads

Highway
Paved Road
Surfaced Road
Unsurfaced Road
New Road Construction

Streams
Type F Stream
Type N Stream
Unknown Stream

Reforestation Area
Marbled Murrelet Management Area
Seasonally Restricted Buffer

#### LOGGING PLAN

OF TIMBER SALE CONTRACT NO. 341-13-59 GREEN SPILL

PORTIONS OF SECTION 34, T9S, R8W, W.M.; SECTIONS 1, 2, 12, 13 & 24, T10S, R8W, W.M.; & SECTIONS 6, 18 & 19, T10S, R7W, W.M., BENTON, LINCOLN AND POLK COUNTIES, OREGON

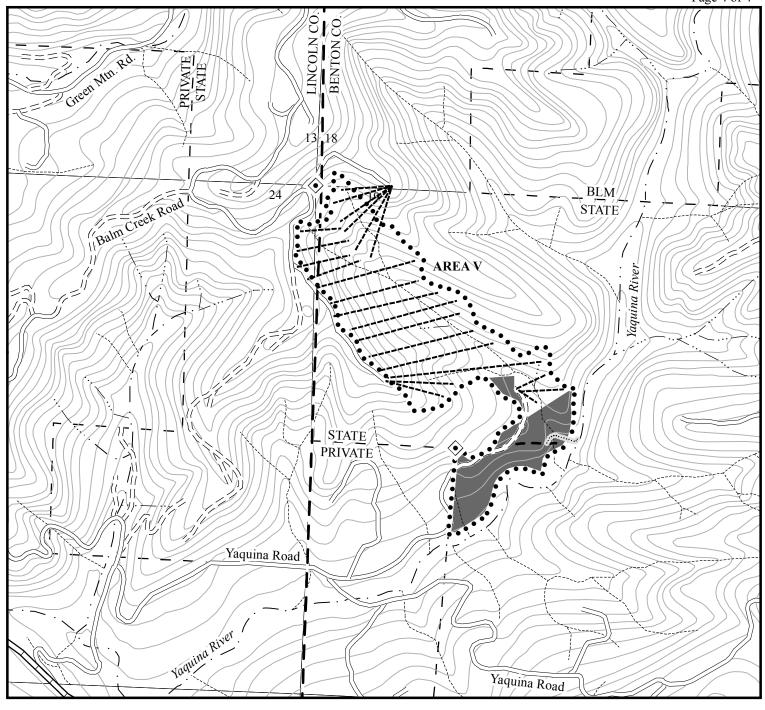
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1 inch = 1,000 feet 0 1,000 2,000

1,000 0 1,000 2,00



	GROSS	NET
Α	CRES	ACRES
AREA I (PC)	24	22
AREA II (PC)	55	52
AREA III (PC)	71	70
AREA IV (PC)	85	81
AREA V (PC)	85	79
TOTAL	320	304



## LEGEND

---- Cable Corridors
Tractor Yarding Area

**⋄** 

Monument

Boundaries

• • • • Timber Sale Boundary

- County Line

- State Forest Property Boundary

New Road Construction

Roads

Highway
Paved Road

Surfaced Road

Unsurfaced Road

Streams

· — Type F Stream
··· — Type N Stream
----- Unknown Stream

## LOGGING PLAN

OF TIMBER SALE CONTRACT NO. 341-13-59 GREEN SPILL

PORTIONS OF SECTION 34, T9S, R8W, W.M.; SECTIONS 1, 2, 12, 13 & 24, T10S, R8W, W.M.; & SECTIONS 6, 18 & 19, T10S, R7W, W.M., BENTON, LINCOLN AND POLK COUNTIES, OREGON

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1 inch = 1,000 feet

1,000 0 1,000 2,000



	GROSS	NET
Α	CRES	ACRES
AREA I (PC)	24	22
AREA II (PC)	55	52
AREA III (PC)	71	70
AREA IV (PC)	85	81
AREA V (PC)	85	79
ΓΟΤΑL	320	304