

District: West Oregon Date: November 17, 2014

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$135,541.72	\$0.00	\$135,541.72
		Project Work:	\$(76,078.00)
		Advertised Value:	\$59,463.72

11/17/14



"STEWARDSHIP IN FORESTRY"

District: West Oregon Date: November 17, 2014

timber description

Location: Area 1, portions of Section 15, T11S, R9W, behind Kessi's farm; Areas 2 & 3 -

portions of Section 20, T11S, R9W, W.M., Lincoln County, Oregon. Areas 4-5, Sugarbowl area; portions of Section 29, T11S, R7W and Section 18, T12S, R7W,

W.M., Benton County, Oregon.

Stand Stocking: 20%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)	
Douglas - Fir	12	0	95	

Volume by Grade	3S	4S	Total
Douglas - Fir	802	396	1,198
Total	802	396	1,198



"STEWARDSHIP IN FORESTRY"

District: West Oregon Date: November 17, 2014

comments: Pond Values Used: 3rd Quarter Calender Year 2014.

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 = \$4.00/Gallon

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

Other Costs (with Profit & Risk to be added):
Brand and Paint: 1,198 MBF @ \$1/MBF = \$1,198
TOTAL Other Costs (with Profit & Risk to be aded) = \$1,198

Other Costs (No Profit & Risk added):
Thompson Timber Road Use Fee = \$872 payable prior to log haul.
Equipment Cleaning (Invasive Species): \$2,000
Firewood Sorting: 10 landings @ \$100 per landing = \$1,000
TOTAL Other Costs (No Profit & Risk added) = \$3,872



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Sweet Eddy Sale 341-15-45

District: West Oregon Date: November 17, 2014

logging conditions

combination#: 1 Douglas - Fir 88.75%

yarding distance: Medium (800 ft) downhill yarding: No logging system: Cable: Medium Tower >40 - <70 Process: Stroke Delimber

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

loads / day: 3.5 bd. ft / load: 3,300

cost / mbf: \$289.53

machines: Log Loader (A)

Stroke Delimber (A)
Tower Yarder (Medium)

combination#: 2 Douglas - Fir 11.25%

yarding distance: Short (400 ft) downhill yarding: No logging system: Shovel Process: Manual Delimbing

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

loads / day: 4.0 bd. ft / load: 3,300

cost / mbf: \$189.74

machines: Shovel Logger



"STEWARDSHIP IN FORESTRY"

District: West Oregon Date: November 17, 2014

logging costs

Operating Seasons: 2.00 Profit Risk: 14.00%

Project Costs: \$76,078.00 **Other Costs (P/R):** \$1,198.00

Slash Disposal: \$0.00 Other Costs: \$3,872.00

Miles of Road

Road Maintenance: \$8.00

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	3.3	



"STEWARDSHIP IN FORESTRY"

District: West Oregon Date: November 17, 2014

logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas -	Fir								
\$278.30	\$8.40	\$7.32	\$108.85	\$1.00	\$56.54	\$0.00	\$5.00	\$3.23	\$468.64

Specie Amortization		Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$581.78	\$113.14	\$0.00



"STEWARDSHIP IN FORESTRY"

District: West Oregon Date: November 17, 2014

summary

Amortized

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

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	1,198	\$113.14	\$135,541.72

Gross Timber Sale Value

Recovery: \$135,541.72

Prepared by: Jim Doyal Phone: 541-929-3266

SUMMARY OF ALL PROJECT COSTS

Sale Name:	Sweet Eddy		Date: Time:	September 2014 14:33	
Project #1 - New	/ Construction				
Road Segment		<u>Length</u>	Cost		
A2 to A3		10.6 sta	\$2,083		
A6 to A7		7.2 sta	\$1,610		
A8 to A9		6.2 sta	\$1,464		
C3 to C4		2.4 sta	\$845		
E2 to E3		6.8 sta	\$1,499		
L2 10 L3		0.0 Sta	Ψ1,499		
	TOTALS	33.2 sta		_	\$7,501
Project #2 - Imp	<u>rovements</u>				
Road Segment		<u>Length</u>	Cost		
A0 to B		265.3 sta	\$12,535		
A to A1		61.6 sta	\$1,901		
A4 to A5		10.0 sta	\$99		
A10 to A11		2.2 sta	\$299		
A12 to A13		7.5 sta	\$780		
B to B1		59.5 sta	\$19,478		
B2 to B3		2.2 sta	\$2,647		
B4 to B5		3.0 sta	\$3,188		
B6 to B7		27.4 sta	\$9,969		
C to C1		128.5 sta	\$4,376		
C1 to C2		24.4 sta	\$242		
C2 to C3		11.0 sta	\$953		
D to E	Pt. D to 101+10	101.1 sta	\$1,390		
E to E1		38.2 sta	\$1,366		
E4 to E5		19.5 sta	\$1,809		
	TOTALS	761.4 sta		_	\$61,032
Project #3 Post	Harvest				\$3,871
Landing patch ro					4-,
•					
Move in			Cost On-site move	<u>e</u>	
Crawler tractor, D			\$1,640		
Grader, Cat 14-G	or equiv.		\$340 \$227		
Water Truck			\$446		
Backhoe			\$340		
Vibratory roller			\$681		
	TOTAL			_	\$3,674
			GRAND TOTA	AL	\$76,078

09/18/2014

Date

Compiled by

J. Doyal

SALE ROAD	Sweet Eddy A0 to B	- Proje	ct #2		LENGTH	improve		265.3 sta
IMPROVE Shape su (with road	rface	265.3 sta.	@	\$13.75	/sta	=	\$3,648	
					TOTAL IM	PROVEM	IENT	\$3,648
Surface re	to 255+00)	230	cy of	Size 1 1/2-0" 1 1/2-0"	Cost/yd \$25.39 \$25.39	=	\$3,047 \$5,840	
					TOTAL RO	OCK COS	T =	\$8,887
Compiled Date:	by:	J. Doyal Sep 18, 2014			GRAND TO	OTAL ===	===>	\$12,535

SALE ROAD	Sweet Eddy A to A1	· - Project	#2		LENGTH	improve		61.6 sta
IMPROVI Shape su (with road	rface	61.6 sta.	@	\$9.90	/sta	=	\$610	
					TOTAL IM	PROVEME	NT	\$610
SURFAC Spot rock (Kessi's F		60 c	cy of	Size 1½-0"	Cost/yd \$21.51	=	\$1,291	
					TOTAL RO	OCK COST	=	\$1,291
Compiled Date:	by:	J. Doyal Sep 18, 2014			GRAND TO	OTAL ====	==>	\$1,901

SALE ROAD	Sweet Eddy A2 to A3	y - Proje	ct #1		LENGTH	const		10.6 sta
CLEARING	AND GRU	BBING						
0.58	acres	@	\$1,010.24	/acre		=	\$586 road	
0.10	acres	@	\$1,010.24	/acre		=	\$101 landing	
				TOTAL C	LEARING A	AND GRUBBII	NG =	\$687
EXCAVAT	ION	With D7 dozer	or equivale	nt				
Construct	road	10.6 sta.	@	\$74.28	/sta.	=	\$787	
Construct	anding	2 hr.	@	\$135.80	/hr.	=	\$272	
Shape sub	•	10.6 sta.	@	\$11.55	/sta.	=	\$122	
(with road	grader)				TOTAL EX	(CAVATION =	:	\$1,181
SURFACI	NG			Size	Cost/yd			
Junction P (Pt. A2)	atch rock	10	cy of	1 1/2-0"	\$21.51	=	\$215	
					TOTAL RO	OCK COST =		\$215

GRAND TOTAL ====>

\$2,083

Compiled by: Date:

J. Doyal Sep 18, 2014

SALE Sweet Eddy - Project #2 LENGTH improve 10.0 sta

ROAD A4 to A5

IMPROVEMENT

Shape surface 10.0 sta. @ \$9.90 /sta = \$99

(with road grader)

TOTAL IMPROVEMENT \$99

Compiled by: J. Doyal

SALE ROAD	Sweet Edd A6 to A7	у	- Projed	ct #1		LENGTH	const		7.2 sta
CLEARING	S AND GRU	JBBING	;						
0.40	acres	@		\$1,010.24	/acre		=	\$404 road	
0.10	acres	@		\$1,010.24	/acre		=	\$101 landing	
					TOTAL C	LEARING /	AND GRUBBI	NG =	\$505
EXCAVAT	ION	With	D7 dozer	or equivale	nt				
Construct		7	.2 sta.	@	\$74.28		=	\$535	
Construct	-	-	2 hr.	@	\$135.80		=	\$272	
Shape sub (with road	-	/	.2 sta.	@	\$11.55	/sta.	=	\$83	
						TOTAL EX	KCAVATION :	=	\$890
SURFACII	NG				Size	Cost/yd			
Junction P (Pt. A6)	atch rock		10	cy of	1 1/2-0"	\$21.51	=	\$215	
						TOTAL RO	OCK COST =		\$215

GRAND TOTAL ====>

\$1,610

Compiled by: Date:

J. Doyal Sep 18, 2014

SALE Sweet Eddy - Project #1 LENGTH const 6.2 sta

ROAD A8 to A9

CLEARING AND GRUBBING

0.34 acres @ \$1,010.24 /acre = \$343 road 0.10 acres @ \$1,010.24 /acre = \$101 landing

TOTAL CLEARING AND GRUBBING = \$444

EXCAVATION With D7 dozer or equivalent

\$74.28 /sta. 6.2 sta. Construct road \$461 2 hr. @ \$135.80 /hr. Construct landing = \$272 Shape subgrade 6.2 sta. @ \$11.55 /sta. \$72 =

(with road grader)

TOTAL EXCAVATION = \$805

SURFACING Size Cost/yd

Junction Patch rock 10 cy of 1 1/2-0" \$21.51 = \$215

(Pt. A8)

TOTAL ROCK COST = \$215

Compiled by: J. Doyal

SALE ROAD	Sweet Eddy A10 to A11	· - Proje	ect #2		LENGTH	improve		2.2 sta
IMPROVE	EMENT							
Re-open (with doze		2.2 sta.	@	\$74.28	/sta	=	\$163	
Re-open	,	1 hrs.	@	\$135.80	/hr.	=	\$136	
					TOTAL IM	1PROVEM	IENT	\$299
Compiled	by:	J. Doyal						

GRAND TOTAL ====>

\$299

Date:

Sep 18, 2014

SALE ROAD	Sweet Eddy A12 to A13	- Project	:#2		LENGTH	improve		7.5 sta
IMPROVE	EMENT							
Re-open (with doze		7.5 sta.	@	\$74.28	/sta	=	\$557	
Re-open I	anding	1 hrs.	@	\$135.80	/hr.	=	\$136	
Shape su (with road		7.5 sta.	@	\$11.55	/sta	=	\$87	
					TOTAL IM	1PROVEME	ENT	\$780
Compiled Date:	by:	J. Doyal Sep 18, 2014			GRAND T	OTAL ===	==>	\$780

SALE ROAD	Sweet Eddy B to B1	- Project	: #2		LENGTH	improve		59.5 sta
IMPROVE	MENT							
Shape sur		47.9 sta.	@	\$9.90	/sta	=	\$474	
(with road Shape sub	grader 0+00	to 47+90) 11.6 sta.	@	\$11.55	/sta	=	\$134	
•	grader 47+90		O	Ψ11.00	, ota	_	Ψ.σ.	
Compact	•	11.6		\$8.31	/sta	=	\$96	
(with vibra	tory roller sta	47+90 to 59+50)						
					TOTAL IMP	ROVEMEN	IT	\$704
SURFACI	NG			Size	Cost/yd			
Spot rock		50	cy of	1½-0"	\$23.89	9 =	\$1,195	
(sta 0+00	•	770	ov. of	m:4 m	<u></u>	2	¢47.570	
Base rock (sta 47+90	(1∠ 1111)) to 59+50)	770	cy of	pit run	\$22.83	3 =	\$17,579	
(0.00.	, ,,							
					TOTAL RO	CK COST =	:	\$18,774
Compiled Date:	by:	J. Doyal Sep 18, 2014			GRAND TO	TAL ====	:>	\$19,478

SALE ROAD	Sweet Eddy B2 to B3	y - Proje	ct #2			LENGTH	improve	•	2.2 sta
IMPROVI	EMENT								
Re-open (with doze		2.2 sta.	@		\$74.28	/sta	=	\$163	
Re-open (with doze	landing	1 hrs.	@	\$	135.80	/hr.	=	\$136	
-	subgrade atory roller)	2.2 sta.	@		\$8.31	/sta	=	\$18	
						TOTAL IM	PROVE	MENT	\$317
SURFAC Base rock	_	60	cy of		Size 3-0"	Cost/yd \$23.70	=	\$1,422	
Landing r			cy of	j	aw-run	\$22.69	=	\$908	
						TOTAL RO	оск со	ST =	\$2,330
0	h	l David							
Compiled Date:	by:	J. Doyal Sep 18, 2014				GRAND T	OTAL =	===>	\$2,647

SALE ROAD	Sweet Eddy B4 to B5	/ - Proje	ct #2		LENGTH	I improve		3.0 sta
IMPROVI	EMENT							
Re-open (with doze		3 sta.	@	\$74.28	s /sta	=	\$223	
Re-open (with doze	landing	1 hrs.	@	\$ 135.80	/hr.	=	\$136	
Compact	subgrade atory roller)	3.0	sta. @	\$8.31	/sta	=	\$25	
					TOTAL II	MPROVE	MENT	\$384
SURFAC Base rock Landing r	k (6" lift)		cy of cy of	Size 3-0" jaw-run	Cost/yd \$23.70 \$22.69) =	\$1,896 \$908	
					TOTAL F	коск со	ST =	\$2,804
Compiled Date:	by:	J. Doyal Sep 18, 2014			GRAND	TOTAL =:	===>	\$3,188

SALE ROAD	Sweet Eddy B6 to B7	- Proje	ct #2			LENGTH LENGTH LENGTH			27.4 sta 21.9 sta 5.5 sta
IMPROVE	EMENT								
Shape su		21.9 sta.	@		\$11.55	/sta	=	\$253	
•	grader 0+00	•	_		•				
Re-open i		5.5 sta.	@		\$74.28	/sta	=	\$409	
•	er sta. 21+90 t	· ·		•	405.00	/1		4070	
Re-open I	•	2 hrs.	@	\$	135.80	/hr.	=	\$272	
`	er sta. 26+90 t	,	@		Φ11 EE	loto		ተ ፍ 4	
Shape su	bgrade I grader 21+90	5.5 sta.	w		\$11.55	/Sta	=	\$64	
•	subgrade	•	sta. @		\$8.31	/sta	=	\$46	
•	•	21+90 to 27+4	_		ψ0.01	/ota	_	Ψίσ	
(**************************************			• ,						
						TOTAL IN	/IPROVE	EMENT	\$1,044
SURFACI	ING				Size	Cost/yd			
Spot rock		20	cy of		1½-0"	\$23.89	=	\$478	
•	to 21+90)		•			·		•	
Base rock	(12" lift)	330	cy of		pit run	\$22.83	=	\$7,534	
•	0 to 26+90)								
Landing r		40	cy of		pit run	\$22.83	=	\$913	
(sta 26+9	0 to 27+40)								
						TOTAL R) OT	¢o 005
						TOTALR	OUN U	JS1 =	\$8,925
Compiled	by:	J. Doyal							
Date:		Sep 18, 2014				GRAND 7	TOTAL =	====>	\$9,969

SALE ROAD	Sweet Eddy C to C1	· - Project	#2			LENGTH	l impr	ove		128.5 sta
IMPROVI Shape su (with road	rface	128.5 sta.	@		\$9.90	/sta	=		\$1,272	
						TOTAL I	MPRO	VEME	ENT	\$1,272
SPECIAL Slough R (24+20 to		16 hrs.	@	\$	194	/hr.	=	\$	3,104	
				TO	TAL S	PECIAL F	ROJE	CTS (COST =	\$3,104
Compiled Date:	by:	J. Doyal Sep 18, 2014				GRAND	тота	L ===	==>	\$4,376

SALE Sweet Eddy - Project #2 LENGTH improve 24.4 sta ROAD C1 to C2

IMPROVEMENT

Shape surface 24.4 sta. @ \$9.90 /sta = \$242

(with road grader)

TOTAL IMPROVEMENT \$242

Compiled by: J. Doyal

SALE ROAD	Sweet Eddy C2 to C3	- Project	#2		LENGTH	improve		11.0 sta
IMPROVE		44.0 -4-	@	Ф 7 4 ОО	/		047	
Re-open r (with doze		11.0 sta.	@	\$74.28	/sta	=	\$817	
Re-open I	,	1 hrs.	@	\$ 135.80	/hr.	=	\$136	
					TOTAL IM	IPROVEMEN	Т	\$953
Compiled Date:	by:	J. Doyal Sep 18, 2014			GRAND T	OTAL ====	>	\$953

SALE Sweet Eddy - Project #1 LENGTH const 2.4 sta ROAD C3 to C4

CLEARING AND GRUBBING

0.13 acres @ \$1,010.24 /acre = \$131 road 0.10 acres @ \$1,010.24 /acre = \$101 landing

TOTAL CLEARING AND GRUBBING = \$232

EXCAVATION With D7 dozer or equivalent

Construct road 2.4 sta. @ \$74.28 /sta. \$178 3 hr. @ \$135.80 /hr. Construct landing = \$407 Shape subgrade 2.4 sta. @ \$11.55 /sta. \$28

(with road grader)

TOTAL EXCAVATION = \$613

Compiled by: J. Doyal

SALE Sweet Eddy - Project #2 LENGTH improve 101.1 sta

ROAD D to E

IMPROVEMENT

Shape surface 101.1 sta. @ \$13.75 /sta = \$1,390

(with road grader Pt. D to 101+10)

TOTAL IMPROVEMENT \$1,390

Compiled by: J. Doyal

SALE Sweet Eddy - Project #2 LENGTH improve 38.2 sta

ROAD E to E1

IMPROVEMENT

Shape surface 38.2 sta. @ \$9.90 /sta = \$378

(with road grader)

TOTAL IMPROVEMENT \$378

SURFACING Size Cost/yd

Spot rock 40 cy of $1 \frac{1}{2}$ -0" \$24.70 = \$988

TOTAL ROCK COST = \$988

Compiled by: J. Doyal

SALE Sweet Eddy - Project #1 LENGTH const 6.8 sta

ROAD E2 to E3

CLEARING AND GRUBBING

0.37 acres @ \$1,010.24 /acre = \$374 road 0.10 acres @ \$1,010.24 /acre = \$101 landing

TOTAL CLEARING AND GRUBBING = \$475

EXCAVATION With D7 dozer or equivalent

Construct road 6.8 sta. @ \$74.28 /sta. = \$505 Construct landing 2 hr. @ \$135.80 /hr. = \$272

TOTAL EXCAVATION = \$777

SURFACING Size Cost/yd

Junction Patch rock 10 cy of 1 1/2-0" \$24.70 = \$247

(Pt. E2)

TOTAL ROCK COST = \$247

Compiled by: J. Doyal

SALE ROAD	Sweet Eddy E4 to E5	- Project	#2		LENGT	H improve		19.5 sta
IMPROVE	EMENT							
Re-open (with doze		19.5 sta.	@	\$74.28	/sta	=	\$1,448	
Re-open (with doze	anding	1 hrs.	@	\$ 135.80	/hr.	=	\$136	
Shape su (with road	bgrade	19.5 sta.	@	\$11.55	/sta	=	\$225	
(. g. a.a.o.,				TOTAL	IMPROVEN	MENT	\$1,809
Compiled	by:	J. Doyal						
Date:	by.	Sep 18, 2014			GRAND	TOTAL ==	===>	\$1,809

SALE Sweet Eddy - Project #3 Post Harvest ROAD

Surfacing

Landing patch rock (6)	60 cy of	1½-0"	\$21.51	=	\$ 1,291
(A to A1)					
Landing patch rock (9)	90 cy of	1½-0"	\$23.89	=	\$ 2,150
(B to B1)					
Landing patch rock (2)	20 cy of	1½-0"	\$21.51	=	\$ 430
(E to E1)					

TOTAL SURFACING = \$ 3,871

Compiled by: J. Doyal

Rock Haul Cost Computation

SALE NAME: Sweet Eddy DATE: Sep 18, 2014

ROAD NAME: CLASS: Medium ROCK SOURCE: Richard Quarry 18 CY truck

Route:

TIME	Comput	tatior	n:
Poad	enaad	t i ma	factore.

Road	speed	CIME	Tactors.	
	1		EE MDII	

1.	55 MPH		MRT	0.0 minutes
2.	50 MPH		MRT	0.0 minutes
3.	45 MPH		MRT	0.0 minutes
4.	40 MPH		MRT	0.0 minutes
5.	35 MPH		MRT	0.0 minutes
6.	30 MPH		MRT	0.0 minutes
7.	25 MPH		MRT	0.0 minutes
8.	20 MPH	24.2	MRT	72.6 minutes
9.	15 MPH		MRT	0.0 minutes
10.	10 MPH		MRT	0.0 minutes
11.	05 MPH		MRT	0.0 minutes

0.50 minutes

73.10 minutes

86.00 minutes

101.18 minutes

Dump or spread time per RT

Total hauling cycle time for this setting (100% efficiency)

Operator efficiency correction	0.85
Job efficiency correction	0.85

Truck capacity (CY)	10.00	10.12	min/CY
Loading time, delay time per CY		0.25	min/CY
TIME (minutes) per cubic yard		10.37	min/CY

COST per CY computation

Cost of truck and operator per hour	\$80.55	/hr.
Cost of truck and operator per minute	\$1.34	/min
Cost non CV	\$13.90	/CV
Cost per CY	913.9U	/ C I

Spread and compact Water truck, Grader & Roller \$1.50 /CY

		Cost Delivered	Cost Delivered
Size	Cost/Yd (Pit)	w/o processing	with processing
1½ - 0"	\$ 10.80	\$24.70	\$26.20
3 - 0"	\$ 9.11	\$23.01	\$24.51
Jaw Run	\$ 8.10	\$22.00	\$23.50
Pit Run	\$ 7.43	\$21.33	\$22.83

Note: Pit costs Nov 2012 Rickard Rock Quarry

Rock Haul Cost Computation

SALE NAME: Sweet Eddy DATE: Sep 18, 2014

ROAD NAME: CLASS: Medium ROCK SOURCE: Richard Quarry 18 CY truck

Route:

TIME Computation:

Road	speed	time	factors:
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	1.	55	MPH		MRT	0.0	minutes
	2.	50	MPH		MRT	0.0	minutes
	3.	45	MPH	44.0	MRT	58.7	minutes
	4.	40	MPH		MRT	0.0	minutes
	5.	35	MPH		MRT	0.0	minutes
	6.	30	MPH		MRT	0.0	minutes
	7.	25	MPH		MRT	0.0	minutes
	8.	20	MPH		MRT	0.0	minutes
	9.	15	MPH		MRT	0.0	minutes
	10.	10	MPH		MRT	0.0	minutes
	11.	05	MPH		MRT	0.0	minutes
0	r spread	tim	e per RT			0.50	minutes

59.20 minutes

69.65 minutes

77.39 minutes

Dump or spread time per RT

Total hauling cycle time for this setting (100% efficiency)

Operator efficiency correction 0.85 Job efficiency correction 0.90

Truck capacity (CY) 10.00 7.74 min/CY 0.25 min/CY Loading time, delay time per CY TIME (minutes) per cubic yard 7.99 min/CY

COST per CY computation

Cost of truck and operator per hour \$80.55 /hr. Cost of truck and operator per minute \$1.34 /min

Cost per CY \$10.71 /CY

Spread and compact Water truck, Grader & Roller \$1.50 /CY

Size	Cost/Yd (Pit)	Cost Delivered w/o processing	Cost Delivered with processing
312e 1⅓ - 0"	\$ 10.80	\$21.51	\$23.01
3 - 0"	\$ 9.11	\$19.82	\$21.32
Jaw Run	\$ 8.10	\$18.81	\$20.31

Note: Pit costs Nov 2012 Rickard Rock Quarry

Rock Haul Cost Computation

SALE NAME: Sweet Eddy DATE: Sep 18, 2014

ROAD NAME: CLASS: Medium ROCK SOURCE: Richard Quarry 18 CY truck

Route:

TIME Computation:

Road speed	time	factors:
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	1.	55	MPH		MRT	0.0	minutes
	2.	50	MPH		MRT	0.0	minutes
	3.	4.5	MPH	54.	2 MRT	72.3	minutes
	4.	40	MPH		MRT	0.0	minutes
	5.	35	MPH		MRT	0.0	minutes
	6.	30	MPH		MRT	0.0	minutes
	7.	25	MPH		MRT	0.0	minutes
	8.	20	MPH		MRT	0.0	minutes
	9.	15	MPH		MRT	0.0	minutes
	10.	10	MPH		MRT	0.0	minutes
	11.	0.5	MPH		MRT	0.0	minutes
mp	or spr	read ti	me pe	r RT		0.50	minutes

10.00

Dum

Total hauling cycle time for this setting (100% efficiency)

Operator efficiency correction 0.85 Job efficiency correction 0.90

Truck capacity (CY) Loading time, delay time per CY TIME (minutes) per cubic yard

COST per CY computation

Cost	of	truck	and	operator	per	hour
Cost	of	truck	and	operator	per	minute

Cost per CY

_	•	_	_		 	٠.	_	_	_

72.80 minutes

85.65 minutes 95.17 minutes

> 9.52 min/CY 0.25 min/CY

9.77 min/CY

\$80.55 /hr.

\$1.34 /min

\$13.09 /CY

Spread and compact Water truck, Grader & Roller \$1.50 /CY

Size	Cost/Yd (Pit)	Cost Delivered w/o processing	Cost Delivered with processing
1½ - 0"	\$ 10.80	\$23.89	\$25.39
3 - 0"	\$ 9.11	\$22.20	\$23.70
Jaw Run	\$ 8.10	\$21.19	\$22.69
Pit Run	\$ 7.43	\$20.52	\$22.02

Note: Pit costs Nov 2012 Rickard Rock Quarry

TIMBER CRUISE SUMMARY

Sale Name: Sweet Eddy, 341-15-45

Sale Type: Areas 1, 2, 3, 4, and 5 are automark thinnings.

Sale Area: Areas 1-3: are located in portions of Sections 15 and 20, T11S, R9W, W.M., Lincoln County, Oregon. Areas 4 and 5 are located in portions of Section 18, T12S, R7W, W.M., Benton County, Oregon.

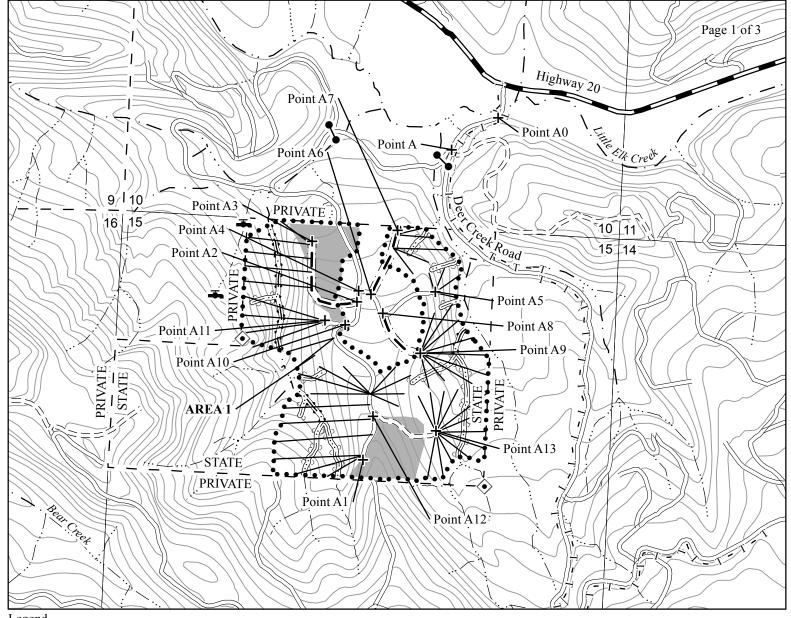
Cruise Summary:

MBF Volume ¹								
Area	Gross Acres	Net Acres ²	Species	Gross Volume	MBF/ Acre	Net Volume	% Hidden D & B	Final Adjusted Volume
1	106	97	Douglas- fir	495	5	485	3	470
2	46	43	Douglas- fir	308	6	258	3	250
3	42	40	Douglas- fir	282	7	280	3	272
4	12	12	Douglas- fir	84	6	72	3	70
5	31	28	Douglas- fir	145	5	140	3	136
Totals	237	220		1,314	•	1,235	•	1,198

¹ Volumes are from measured SLI data, imputed SLI data, or post thinning plots estimated forward.

Grade by Percent						
Area	Species	2-Saw	3-Saw	4-Saw		
1	Douglas-fir	-	67	33		
2	Douglas-fir	=	67	33		
3	Douglas-fir	=	67	33		
4	Douglas-fir	=	67	33		
5	Douglas-fir	-	67	33		

² 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.



Legend

Boundaries

• • • • • Timber Sale Boundary

State Forest Property Boundary

☐☐ Right of Way Boundary (Posted)

T - T - Buried Fiber Optic Line

Roads

Highway

Surfaced Road

=== Unsurfaced Road

New Construction

Streams

· — · Type F

··· — ·· Type N

Stream Buffer

Posted

The Unposted

Yarding Method

Tractor Yarding Area

Cable Corridors

+ Project Point

Land Survey Monument

Gates

➡ Domestic Water Source

LOGGING PLAN

OF TIMBER SALE CONTRACT NO. 341-15-45 SWEET EDDY

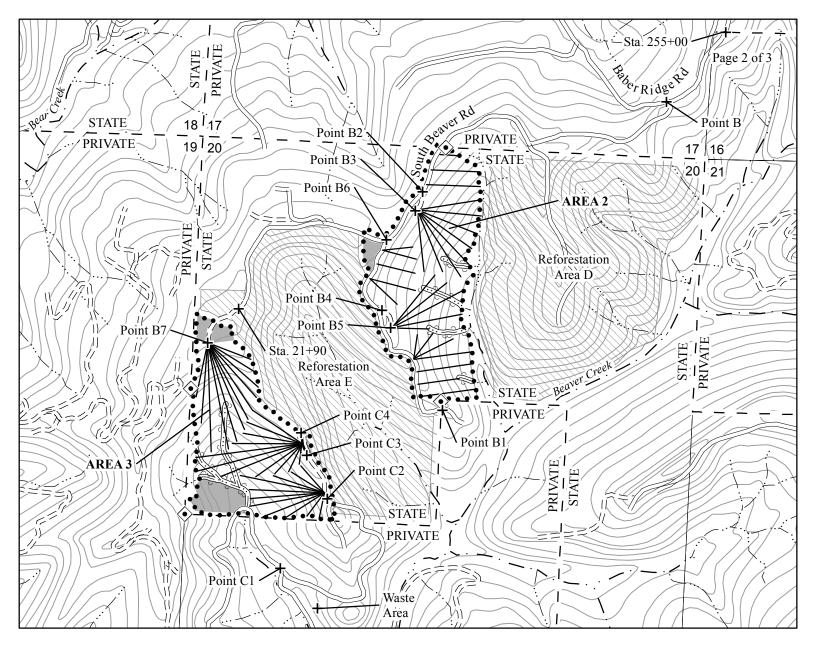
PORTIONS OF SECTIONS 15 & 20, T11S, R09W, AND SECTION 18, T12S, R07W, W.M., BENTON AND LINCOLN COUNTIES, OREGON

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.

Scale 1:12,000 1,000 0 1,000 2,000 Fee

	NET ACRES TRACTOR	NET ACRES CABLE
1 (PC) 2 (PC) 3 (PC) 4 (PC) 5 (PC)	19 0 0 0 8	78 43 40 12 20
TOTAL	27	193
	N	





Legend

Boundaries

• • Timber Sale Boundary

State Forest Property Boundary

Right of Way Boundary (Posted)

Roads

Surfaced Road

Unsurfaced Road

New Construction

Streams

· — · Type F

··· — ·· Type N

Stream Buffer

_____ Unposted

Yarding Method

Tractor Yarding Area

Cable Corridors

Reforestation Area

Project Point

Land Survey Monument

LOGGING PLAN

OF TIMBER SALE CONTRACT NO. 341-15-45 **SWEET EDDY**

PORTIONS OF SECTIONS 15 & 20, T11S, R09W, AND SECTION 18, T12S, R07W, W.M.,

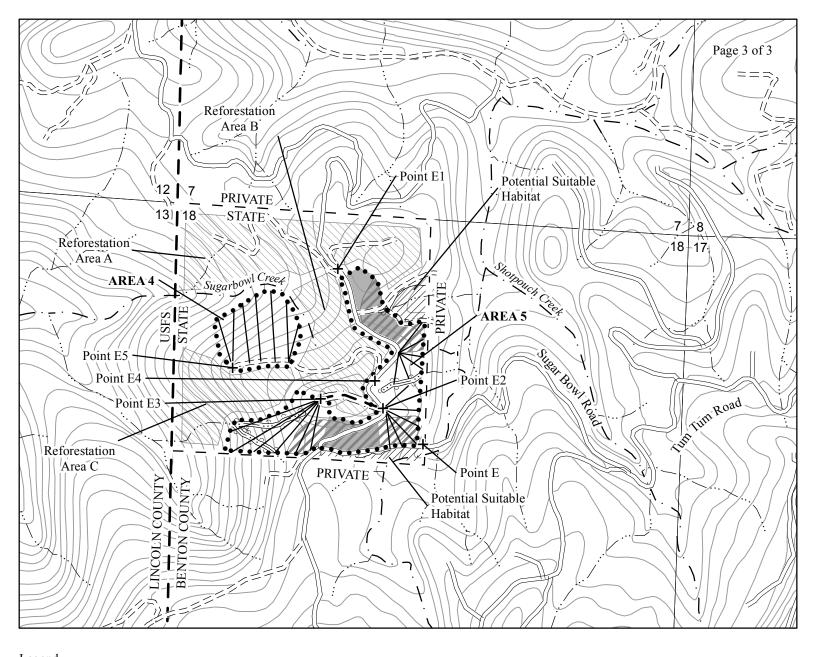
BENTON AND LINCOLN COUNTIES, OREGON

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

	NET ACRES TRACTOR	NET ACRES CABLE
1 (PC) 2 (PC) 3 (PC) 4 (PC) 5 (PC)	19 0 0 0 8	78 43 40 12 20
TOTAL	27	193
	N	

Created By: Blake McKinley bmckinley@odf.state.or.us Date: 06/02/2014



Legend

Boundaries

- • • Timber Sale Boundary
- State Forest Property Boundary
- ☐ ☐ Right of Way Boundary (Posted)
- **—** Countyline

Roads

- Surfaced Road
- = = Unsurfaced Road
- New Construction

Streams

- · · Type F
- ··· ·· Type N

Stream Buffer

- _____ Unposted
- Yarding Method
- Tractor Yarding Area
- Cable Corridors
- Reforestation Area
- Potential Suitable Habitat
 Seasonally Restricted Buffer
 - Project Point

LOGGING PLAN

OF TIMBER SALE CONTRACT NO. 341-15-45 SWEET EDDY

PORTIONS OF SECTIONS 15 & 20, T11S, R09W, AND SECTION 18, T12S, R07W, W.M., BENTON AND LINCOLN COUNTIES, OREGON

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	S	Scale	
	1:3	12,000	
1,000	0	1,000	2,000
			Feet

	NET ACRES TRACTOR	NET ACRES CABLE
1 (PC) 2 (PC) 3 (PC) 4 (PC) 5 (PC)	19 0 0 0 8	78 43 40 12 20
TOTAL	27	193



Created By: Blake McKinley bmckinley@odf.state.or.us Date: 06/02/2014