

District: West Oregon Date: January 08, 2014

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$170,734.20	\$0.00	\$170,734.20
		Project Work:	\$(36,540.00)
		Advertised Value:	\$134,194.20

1/8/14



District: West Oregon Date: January 08, 2014

timber description

Location: Portions of Sections 9, 15, 16, 21, & 22, T10S, R7W, W.M., Benton County, Oregon.

Stand Stocking: 40%

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

Volume by Grade	3S	4S	Total
Douglas - Fir	578	248	826
Total	578	248	826



"STEWARDSHIP IN FORESTRY"

District: West Oregon Date: January 08, 2014

comments: Pond Values Used: 4th Quarter Calendar Year 2013.

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

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: \$500
TOTAL Other Costs (with Profit & Risk to be added) = \$500

Other Costs (No Profit & Risk added):
Invasive Species Equipment Cleaning: \$1,500
Firewood Sorting: 3 hours x \$100/hour = \$300
TOTAL Other Costs (No Profit & Risk added) = \$1,800

SLASH DISPOSAL None.



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Oleman Winter Sale 341-14-73

District: West Oregon Date: January 08, 2014

logging conditions

combination#: 1 Douglas - Fir 35.18%

yarding distance: Short (400 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: 3.0 bd. ft / load: 3,500

cost / mbf: \$269.93

machines: Log Loader (A)

Stroke Delimber (A) Tower Yarder (Small)

combination#: 2 Douglas - Fir 55.62%

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: 2.5 bd. ft / load: 3,500

cost / mbf: \$323.91

machines: Log Loader (A)

Stroke Delimber (A) Tower Yarder (Small)

combination#: 4

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

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

loads / day: 5.0 bd. ft / load: 3,500

cost / mbf: \$82.18

machines: Stroke Delimber (B)



District: West Oregon Date: January 08, 2014

logging costs

Operating Seasons: 1.00 Profit Risk: 14.00%

Project Costs: \$36,540.00 **Other Costs (P/R):** \$500.00

Slash Disposal: \$0.00 Other Costs: \$1,800.00

Miles of Road

Road Maintenance: \$8.04

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	



District: West Oregon

Date: January 08, 2014

logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas -	Fir								
\$282.68	\$8.44	\$5.31	\$68.42	\$0.61	\$51.16	\$0.00	\$5.00	\$2.18	\$423.80

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$630.50	\$206.70	\$0.00



"STEWARDSHIP IN FORESTRY"

District: West Oregon Date: January 08, 2014

summary

Amortized

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

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	826	\$206.70	\$170,734.20

Gross Timber Sale Value

Recovery: \$170,734.20

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

SUMMARY OF ALL PROJECT COSTS

Sale Name:	Oleman Winter		Date: Time:	October 25, 11:17	2013
Project #1 - New C	Construction .				
Road Segment		<u>Length</u>	Cost		
A3 to A5		17.2 sta	\$2,480)	
A7 to A8		4.2 sta	\$715		
B2 to B3		3.2 sta	\$657		
B4 to B5		1.8 sta	\$472		
B6 to B7		1.6 sta	\$447		
C to C1		17.3 sta	\$1,800		
D3 to D4		2.7 sta	\$3,212		
D5 to D6		4.1 sta	\$6,085		
D0 10 D0		4.1 Sta	ψ0,000	,	
	TOTALS	52.1 sta		_	\$15,868
Project #2 - Impro	voments				
Road Segment	<u>venients</u>	<u>Length</u>	Cost		
A to A1		109.9 sta	\$3,729)	
A1 to A6		17.2 sta	\$475		
A2 to A3		17.2 sta	\$815		
A6 to A7		3.7 sta	\$204		
B to B1		17.9 sta	\$951		
D to D1		98.0 sta	\$5,935		
D2 to D3		8.1 sta	\$4,429		
	TOTALS		. ,	_	\$46 F30
	TOTALS	271.9 sta			\$16,538
Project #3 - Post In Tank traps (3) Stream crossing distanding patch rock	tch				\$2,942
Turnaround rock					
Move in Crawler tractor, D-7 Grader, Cat 14-G of Vibratory Roller Backhoe (x2)	-		Cost On-site move \$361 \$130 \$225 \$50 \$225 \$201)	
	TOTAL			_	\$1,192
			GRAND TOTA	AL	\$36,540
Compiled by	J. Goldsby			Date 10/	25/2013

SALE ROAD	Oleman V A to A1	Vinter	- Proje Surfac	ect #2 ed, Ditch	LENGTH	improve		109.9 sta
IMPROVE Shape sur (with road	rface	109.9 st	a. @	\$13.75	/sta	=	\$1,511	
					TOTAL IM	1PROVEM	ENT	\$1,511
SURFACI Spot Rock (50 cy/mi)	(108 cy of	Size 1 1/2-0"	Cost/yd \$16.97 TOTAL R	= OCK COS	\$1,833 T =	\$1,833
SPECIAL Clean out (inlets and		S	15 culvert	s @	\$25.67	ea. =	\$385	
				TOTAL S	PECIAL PF	ROJECTS	COST =	\$385
Compiled Date:	by:	J. Goldsby Oct 25, 2013			GRAND T	OTAL ===	:==>	\$3,729

SALE Oleman Winter - Project #2 LENGTH improve 17.2 sta

ROAD A1 to A6 Unsurfaced, Outsloped

IMPROVEMENT

Re-open road 3.5 hr. @ \$135.80 /hr = \$475

(with D7 dozer or equivalent)

TOTAL IMPROVEMENT \$475

Compiled by: J. Goldsby

SALE Oleman Winter - Project #2 LENGTH improve 17.1 sta

ROAD A2 to A3 Unsurfaced, Outsloped

IMPROVEMENT

Re-open road 6.0 hr. @ \$135.80 /hr = \$815

(with D7 dozer or equivalent)

TOTAL IMPROVEMENT \$815

Compiled by: J. Goldsby

SALE Oleman Winter - Project #1 LENGTH const 17.2 sta

ROAD A3 to A5 Unsurfaced, Outsloped

CLEARING AND GRUBBING

0.95 acres @ \$808.19 /acre = \$768 road 0.20 acres @ \$808.19 /acre = \$162 landings

TOTAL CLEARING AND GRUBBING = \$930

EXCAVATION With D7 dozer or equivalent

Construct road 17.2 sta. @ \$74.28 /sta. = \$1,278 Construct landings 2 hr. @ \$135.80 /hr. = \$272

(Pts. A4 & A5)

TOTAL EXCAVATION = \$1,550

Compiled t 90 J. Goldsby

SALE Oleman Winter - Project #2 LENGTH improve 3.7 sta

ROAD A6 to A7 Unsurfaced, Outsloped

IMPROVEMENT

Re-open road 1.5 hr. @ \$135.80 /hr = \$204

(with D7 dozer or equivalent)

TOTAL IMPROVEMENT \$204

Compiled by: J. Goldsby

SALE Oleman Winter - Project #1 LENGTH const 4.2 sta

ROAD A7 to A8 Unsurfaced, Outsloped

CLEARING AND GRUBBING

0.23 acres @ \$808.19 /acre = \$186 road 0.10 acres @ \$808.19 /acre = \$81 landing

TOTAL CLEARING AND GRUBBING = \$267

EXCAVATION With D7 dozer or equivalent

Construct road 4.2 sta. @ \$74.28 /sta. = \$312 Construct landing 1 hr. @ \$135.80 /hr. = \$136

(Pt. A8)

TOTAL EXCAVATION = \$448

Compiled t 90 J. Goldsby

SALE Oleman Winter - Project #2 LENGTH improve 17.9 sta

ROAD B to B1 Unsurfaced, Outsloped

IMPROVEMENT

Re-open road & landing 7.0 hr. @ \$135.80 /hr. = \$951

(with D7 dozer or equivalent)

TOTAL IMPROVEMENT \$951

Compiled by: J. Goldsby

SALE Oleman Winter - Project #1 LENGTH const 3.2 sta

ROAD B2 to B3 Unsurfaced, Outsloped

CLEARING AND GRUBBING

0.18 acres @ \$1,010.24 /acre = \$182 road 0.10 acres @ \$1,010.24 /acre = \$101 landing

TOTAL CLEARING AND GRUBBING = \$283

EXCAVATION With D7 dozer or equivalent

Construct road 3.2 sta. @ \$74.28 /sta. = \$238 Construct landing 1 hr. @ \$135.80 /hr. = \$136

TOTAL EXCAVATION = \$374

Compiled by: J. Goldsby

SALE Oleman Winter - Project #1 LENGTH const 1.8 sta

ROAD B4 to B5 Unsurfaced, Outsloped

CLEARING AND GRUBBING

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

TOTAL CLEARING AND GRUBBING = \$202

EXCAVATION With D7 dozer or equivalent

Construct road 1.8 sta. @ \$74.28 /sta. = \$134 Construct landing 1 hr. @ \$135.80 /hr. = \$136

TOTAL EXCAVATION = \$270

Compiled by: J. Goldsby

SALE Oleman Winter - Project #1 LENGTH const 1.6 sta

ROAD B6 to B7 Unsurfaced, Outsloped

CLEARING AND GRUBBING

0.09 acres @ \$1,010.24 /acre = \$91 road 0.10 acres @ \$1,010.24 /acre = \$101 landing

TOTAL CLEARING AND GRUBBING = \$192

EXCAVATION With D7 dozer or equivalent

Construct road 1.6 sta. @ \$74.28 /sta. = \$119 Construct landing 1 hr. @ \$135.80 /hr. = \$136

TOTAL EXCAVATION = \$255

Compiled by: J. Goldsby

SALE Oleman Winter - Project #1 LENGTH const 17.3 sta

ROAD C to C1 Unsurfaced, Outsloped

CLEARING AND GRUBBING

0.95 acres @ \$808.19 /acre = \$768 road 0.10 acres @ \$808.19 /acre = \$81 landing

TOTAL CLEARING AND GRUBBING = \$849

EXCAVATION With D7 dozer or equivalent

Construct road 6 hr. @ \$135.80 /hr. = \$815 Construct landing 1 hr. @ \$135.80 /hr. = \$136

TOTAL EXCAVATION = \$951

Compiled by: J. Goldsby

SALE ROAD	Oleman W D to D1	Vinter	- Project # Surfaced,		LENGTH to 50+20),		e ped (50+20 to 98+00)	98.0 sta
IMPROVE	MENT							
Hand brus	sh road to 13+10)	16 hr.	@	\$48.53	/hr	=	\$776	
Slough rer (with back sta.25+20	moval hoe,	80 cy.	@	\$1.27	/cy.	=	\$102	
Haul bank to waste a	slough rea	4 hr.	@	\$68.88	/hr.	=	\$276	
(with dump Shape sur (with road	face grader,	50.2 sta.	@	\$13.75	/sta.	=	\$690	
sta. 0+00 Shape sur (with road	face grader,	47.8 sta.	@	\$9.90	/sta.	=	\$473	
sta. 50+20) to 98+00)				TOTAL IM	PROVE	MENT	\$2,317
SURFACI Spot Rock (100 cy/mi	i, 18YD	9:	5 cy of	Size 1 1/2-0"	Cost/yd \$16.97	=	\$1,612	
sta. 0+00 Spot Rock (100 cy/mi	i, 9YD	9.	4 cy of	1 1/2-0"	\$19.98	=	\$1,878	
Sta. 50+20) to 98+00)				TOTAL RO	OCK CC	OST =	\$3,490
SPECIAL Clean out (inlets and			5 culverts	@	\$25.67	ea. =	\$128	
				TOTAL SF	PECIAL PR	OJECT	S COST =	\$128
Compiled Date:	by:	J. Goldsby Oct 25, 2013			GRAND T	OTAL =	====>	\$5,935

SALE ROAD	Oleman Wir D2 to D3		Project #2 Surfaced, C		LENGTH	improve		8.1 sta
IMPROVI Shape su (with road	rface	8.1 sta.	@	\$9.90	/sta	=	\$80	
					TOTAL IM	PROVEME	NT	\$80
SURFAC 4" lift (0+0 Landing (00 to 7+60)	171 o 36 o	cy of cy of	Size 1 1/2-0" Jaw Run	Cost/yd \$21.48 \$18.78 TOTAL RO	= = DCK COST	\$3,673 \$676 =	\$4,349
Compiled Date:	•	J. Goldsby Oct 25, 2013			GRAND T	OTAL ====	==>	\$4,429

SALE ROAD	Oleman V D3 to D4		- Projec Surface	t #1 d, Outslop	ped	LENGTH	const		2.7 sta
CLEARIN	IG AND GR	UBBING							
0.1	5 acres	@		\$808.19	/acre		=	\$121 road	
0.10	0 acres	@		\$808.19	/acre		=	\$81 landir	ng
					TOTAL C	LEARING /	AND GI	RUBBING =	\$202
EXCAVA [*]	TION	With D7	dozer or	equivaler	nt				
Construct	road	2.7	sta.	@	\$74.28	/sta.	=	\$201	
Construct	•	1	hr.	@	\$121.25		=	\$121	
Shape su (with road	-	2.7	sta.	@	\$11.55	/sta.	=	\$31	
-	subgrade atory roller)	2.7	sta.	@	\$8.31	/sta.	=	\$22	
						TOTAL EX	XCAVA	TION =	\$375
SURFAC	ING				Size	Cost/yd			
8" lift (0+0	00 to 2+20)		99 d	cy of	3-0"	\$19.79	=	\$1,959	
Landing (Pt. D4)		36 c	y of	Jaw Run	\$18.78	=	\$676	
						TOTAL RO	OCK C	OST =	\$2,635
Compiled Date:	by:	J. Goldsb Oct 25, 2	•			GRAND T	OTAL :	====>	\$3,212

SALE ROAD	Oleman V D5 to D6	Vinter	- Projec	ct #1 ed, Outslop	ed	LENGTH	const		4.1 sta
CLEARIN	IG AND GR	UBBING							
0.23	3 acres	@		\$808.19	/acre		=	\$186 road	
0.10	0 acres	@		\$808.19	/acre		=	\$81 landing)
					TOTAL C	LEARING	AND G	RUBBING =	\$267
EXCAVA	TION	With D7	dozer o	r equivalen	t				
Construct	road		sta.	@	\$74.28	/sta.	=	\$305	
Construct	landing	1	hr.	@	\$135.80	/hr.	=	\$136	
Fill approa	ach	8	hr.	@	\$135.80	/hr.	=	\$1,086	
(0+00 to 1	•								
Compact		4	hr.	@	\$81.92	/hr.	=	\$328	
	atory roller)								
Shape su	•	4.1	sta.	@	\$11.55	/sta	=	\$47	
(with road	•	4.4	-4-	@	#0.04	/		ФО.4	
-	subgrade atory roller)	4.1	sta.	@	\$8.31	/sta.	=	\$34	
(WILLI VIDIO	atory roller)								
						TOTAL E	XCAVA	TION =	\$1,936
SURFAC	ING				Size	Cost/yd			
	00 to 3+60)		162	cy of	3-0"	\$19.79	=	\$3,206	
Landing (•		36 0	•	Jaw Run	\$18.78		\$676	
(2 0)			., c.		Ψ.σσ		Ψ0. 0	
						TOTAL R	OCK C	OST =	\$3,882
Compiled	by:	J. Golds	by						
Date:	Бy.	Oct 25, 2	•			GRAND T	TOTAL	====>	\$6,085

SALE ROAD	Oleman Wint	er - Project #3	Post Harvest				
SURFAC	ING		Size	Cost/CY			
• .	patch rock (10)	90 cy of	1 1/2-0"	\$19.98	=	\$1,798	
(D to D1,	sta. 74+80 to 9 nd rock	2+50) 27 cy of	3-0"	\$18.29	=	\$494	
(Pt. D4)		,		·		·	
Turnarou	nd rock	27 cy of	3-0"	\$18.29	=	\$494	
(Pt. D6)							
				TOTAL SUR	FACIN	G COST =	\$2,786
MISCELL	ANEOUS PRO	JECTS					
Tank trap	at Pt. A1	0.5 hr.	@	\$77.00	/hr. =	\$39	
Tank trap	at Pt. B	0.5 hr.	@	\$77.00	/hr. =	\$39	
Tank trap	at Pt. C	0.5 hr.	@	\$77.00	/hr. =	\$39	
	rossing ditch Sta. 13+50)	0.5 hr.	@	\$77.00	/hr. =	\$39	
(2.5 10.00)		TOTAL MIS	SCELLANEOU	IS PRO	JECTS =	\$156
Compiled	by:	J. Goldsby					.
Date:		Oct 25, 2013		GRAND TO	TAL ==	===>	\$2,942

ROAD SEGMENT				POINT TO POINT	O POINT	Sta. to Sta.	Sta.			
			:	A to A1	, A1	0+00 to 109+90	109+90	TOTAL	TOTAL	
Application	Rock Size and Type	Location	Depth of Rock (inches)	Volume (CY) per	(CY) per	Number of	er of	VOLUME (CY)	VOLUME (TONS)	TOTAL COST
Spot Rock	1 1/2-0"	A to A1	ΝΑ	50	mile	2.1	miles	108	146	\$1,833
ROAD SEGMENT				POINT TO	TO POINT	Sta. to Sta.	Sta.			
			:	D to D1	D1	0+00 to 98+00	00+86	TOTAL	TOTAL	
Post Harvest Application	Rock Size and Type	Location	Depth of Rock (inches)	Volume (CY) per	(CY) per	Number of	er of	VOLUME (CY)	VOLUME (TONS)	TOTAL COST
Spot Rock	1 1/2-0"	D to D1	ΨN	100	mile	1.9	miles	189	255	\$3,490
Landing patch rock	1 1/2-0"	landings	NA	6	landing	10	landings	90	122	\$1,798
ROAD SEGMENT				POINT TO POINT	O POINT	Sta. to Sta.	Sta.			
			7	D2 to	D2 to D3	0+00 to 8+10	8+10	TOTAL	TOTAL	
Post Harvest Application	Rock Size and Type	Location	Deptn of Rock (inches)	Volume (CY) per	(CY) per	Number of	er of	VOLUME (CY)	VOLUME (TONS)	TOTAL COST
Base Rock	1 1/2-0"	D2 to D3	4"	22	station	7.6	stations	171	231	\$3,673
Landing	jaw run	D3	ΑN	36	landing	_	landing	36	49	\$676
ROAD SEGMENT				POINT TO POINT	O POINT	Sta. to Sta.	Sta.			
			1	D3 to	D3 to D4	0+00 to 2+70	2+70	TOTAL	TOTAL	
Application	Rock Size and Type	Location	Deptn of Rock (inches)	Volume (CY) per	(CY) per	Number of	er of	VOLUME (CY)	VOLUME (TONS)	TOTAL COST
Base Rock	3-0"	D3 to D4	8	44	station	2.2	stations	66	134	\$1,959
Landing	jaw run	D4	NA	36	landing	1	landing	36	49	\$676
Turnaround	3-0"	D4	NA	27	landing	1	landing	27	36	\$247

ROAD SEGMENT				POINT T	POINT TO POINT	Sta. to Sta.	Sta.			
				D5 t	D5 to D6	0+00 to 4+10	0 4+10	TOTAL	TOTAL	
Application	Rock Size and Type	Location	Depth of Rock (inches)	Volume	Volume (CY) per	Number of	er of	VOLUME (CY)	VOLUME (TONS)	TOTAL COST
Base Rock	3-0"	D5 to D6	8	44	station	3.6	stations	162	219	\$3,206
Landing	jaw run	D6	NA	36	landing	1	landing	36	65	\$676
Turnaround	3-0"	9Q	NA	27	landing	_	landing	27	36	\$247
	ROCK CO	ROCK CONVERSION FACTORS	FACTORS	(0)						
				3		,				
Size	3/4-0"	1 1/2-0"	3-0"	4-0"	jaw run	pit run				
Tons/CY	1.35	1.35	1.35	1.35	1.35	1.35				
		(Conversion	n factors fro	om Rickard I	(Conversion factors from Rickard Rock Quarry)					
			Maintenan	ice Rock Vo	Maintenance Rock Volumes in CY					
Rock Size	3/4 - 0"	1 1/2-0"	3-0"	4-0"	jaw run	pit run	other			
Rock Totals		66	18							
			TOTA	TOTAL ROCK VOLUMES	COMES					
Rock Size	3/4 - 0"	1 1/2-0"	3-0"	4-0"	jaw run	pit run	other			
Rock Totals CY	0	259	333	0	108	0	0			
Rock Totals TONS	0	887	450	0	146	0	0			
Cubic yard volumes have been rounded to the nearest 9 CY truck load.	iave been ro	ounded to th	e nearest 9	CY truck lo	ad.					

SUMMARY OF MAINTENANCE COST

SALE ROAD Oleman Winter

- Final Maintenance Cost Estimate (Costed in appraisal, not in project costs)

Grading

Move-in

\$ 304.00

Road Segment	Length	Cost/Sta	Cost	Mileage
A to A1	109.9	\$13.75	\$1,511.13	2.08
D to D1 (0+00 to 50+20)	50.2	\$13.75	\$690.25	0.95
D to D1 (50+20 to 98+00)	47.8	\$9.90	\$473.22	0.91
D2 to D3	8.1	\$9.90	\$80.19	0.15
D3 to D4	2.7	\$9.90	\$26.73	0.05
D5 to D6	4.1	\$9.90	\$40.59	0.08
Shingle Ck. Rd.	87.7	\$13.75	\$1,205.88	1.66
Totals	310.5	_	\$4,027.99	5.88

Maintenance Rock:

	Volume	Cost/CY	Cost
1½-0"	99	\$19.98	\$1,978.02
3-0"	18	\$18.29	\$329.22
Grand Total			\$6,639.23
T0.1/ 1	000	MDE	
TS Volume	826	MBF	
Cost / MBF =			\$8.04
OO3(/ IVIDI —			ψ0.0 4

NOTES:

Rock Haul Cost Computation

SALE NAME: Oleman Winter DATE: Oct 25, 2013 Filched Gate ROAD NAME: CLASS: Medium ROCK SOURCE: Rickard₁ 9 CY truck Garrett Ln, Hwy 20, Hwy 223, Hoskins Rd, Shingle Creek Route: Time Computation: Road speed time factors: 1. 55 MPH 18.4 MRT 20.1 minutes 2. 50 MPH 0.0 minutes MRT 3. 45 MPH MRT 0.0 minutes 4. 40 MPH 0.0 minutes MRT 35 MPH 5. MRT 0.0 minutes 30 MPH 6. 6.2 MRT 12.4 minutes 25 MPH 7. 8.4 MRT 20.2 minutes 20 MPH 8. MRT 0.0 minutes 15 MPH 0.0 minutes 9. MRT 10 MPH 0.0 minutes 10. MRT 11. 05 MPH MRT 0.0 minutes Dump or spread time per RT 0.50 minutes Total hauling cycle time for this setting (100% efficiency) 53.20 minutes Operator efficiency correction 0.85 62.59 minutes Job efficiency correction 0.90 69.54 minutes 7.73 min/CY Truck capacity (CY) 9.00 0.25 min/CY Loading time, delay time per CY 7.98 min/CY TIME (minutes) per cubic yard COST per CY computation Cost of truck and operator per hour \$68.88 /hr. Cost of truck and operator per minute \$1.15 /min Cost per CY \$9.18 /CY 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	\$19.98	\$21.48
3 - 0"	\$ 9.11	\$18.29	\$19.79
Jaw Run	\$ 8.10	\$17.28	\$18.78

Note: Pit costs November 2012

¹⁾ Rickard or any other ODF approved commercial source may be used

Rock Haul Cost Computation

SALE NAME: Oleman Winter DATE: Oct 25, 2013 Filched Gate ROAD NAME: CLASS: Medium ROCK SOURCE: $Rickard_1$ 18 CY truck Garrett Ln, Hwy 20, Hwy 223, Hoskins Rd, Shingle Creek Route: Time Computation: Road speed time factors: 1. 55 MPH 18.4 MRT 20.1 minutes 2. 50 MPH 0.0 minutes MRT 45 MPH 3. 0.0 minutes MRT 4. 40 MPH 0.0 minutes MRT 5. 35 MPH MRT 0.0 minutes 6. 30 MPH 6.2 MRT 12.4 minutes 25 MPH 7. 8.4 MRT 20.2 minutes 20 MPH 8. MRT 0.0 minutes 9. 15 MPH MRT 0.0 minutes 10 MPH 0.0 minutes 10. MRT 11. 05 MPH 0.0 minutes MRT Dump or spread time per RT 0.50 minutes Total hauling cycle time for this setting (100% efficiency) 53.20 minutes Operator efficiency correction 0.85 62.59 minutes Job efficiency correction 0.90 69.54 minutes 3.86 min/CY Truck capacity (CY) 18.00 0.25 min/CY Loading time, delay time per CY 4.11 min/CY TIME (minutes) per cubic yard COST per CY computation Cost of truck and operator per hour \$90.22 /hr. Cost of truck and operator per minute \$1.50 /min Cost per CY \$6.17 /CY Spread and compact Water truck, Grader & Roller \$1.50 /CY Cost Delivered Cost Delivered Cost/Yd (Pit) w/o processing Size with processing 1½ - 0" \$ 10.80 \$16.97 \$18.47

3 - 0"	\$ 9.11	\$15.28
Jaw Run	\$ 8.10	\$14.27

Note: Pit costs November 2012

\$16.78 \$15.77

¹⁾ Rickard or any other ODF approved commercial source may be used

Oleman Winter (341-14-73) FY 2014

TIMBER CRUISE REPORT

1. Sale Area Location: Portions of Sections 9, 15, 16, 21, and 22, T10S, R7W, W.M., Benton County, Oregon.

2. Fund Distribution:

a. Fund BOF 100%

b. Tax Code

3. Sale Acreage by Area:

Area	Treatment	Gross Acres	Acreage Adjustment	Net Sale Acres	Acreage Comp. Method	Closure
1	Partial Cut	90	Cruise	78	Ortho photo, GIS, GPS	n/a
2	Partial Cut	60	Cruise	55	Ortho photo, GIS, GPS	n/a

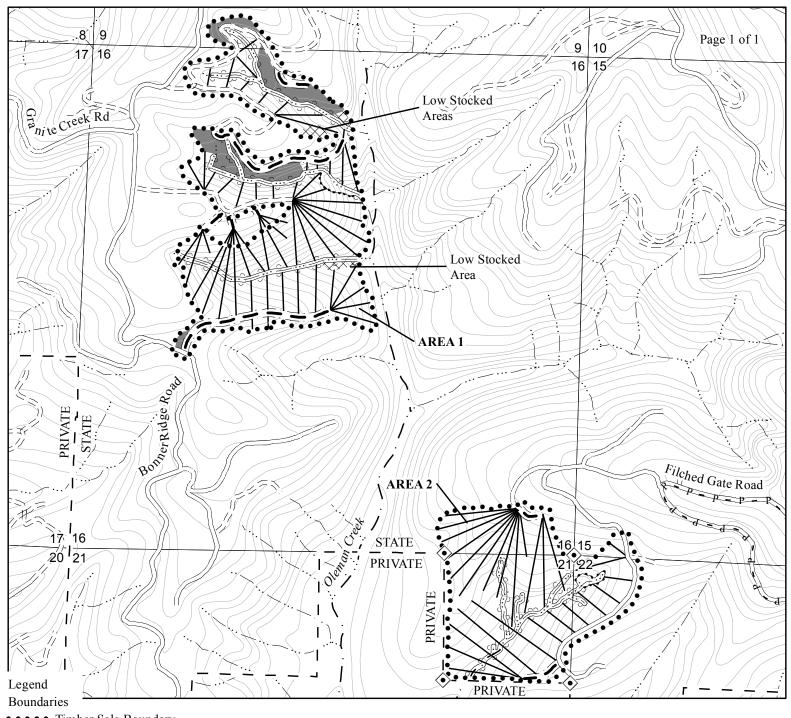
- **4.** Cruisers and Cruise Dates: The sale area was cruised by Joe Goldsby in July of 2013.
- 5. Cruise Method and Computation: The sale consists of two partial cut areas that were cruised using variable plot sampling. Both areas were cruised using a 20 BAF. Plots were approximately located on a 400 foot by 400 foot grid with 15 plots sampled in Area 1 and 14 plots sampled in Area 2. Trees contributing to excess basal area on each plot (above the residual basal area target of 140 ft²/acre) were measured for DBH and height. A total of 45 trees on Area 1 and 45 trees on Area 2 were measured. Data was entered into a variable plot density management worksheet to determine removal volumes. Standard grade, defect, and breakage percentages were applied to the resulting volumes.

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 Area 1 is 38 year-old planted Douglas-fir. Area 2 contains 32 year-old planted Douglas-fir. Reserved tree species detected in the unit include red alder and bigleaf maple. Reserved trees were found in small amounts throughout both areas.
- 7. Total Volume (MBF) by Species and Grade:

Species	Gross Cruise Volume	Hidden D & B	Hidden D & B (MBF)	Net Sale Volume
Area 1				
Douglas-fir	471	5%	24	447
Area 2				
Douglas-fir	399	5%	20	379
Total				
Douglas-fir	870	5%	44	826

Species	DBH	Net Vol.	2-Saw	3-Saw	4-Saw	% D & B
Area 1	Grade Percentages			70%	30%	
Douglas-fir	10.4	447	1	313	134	5%
Area 2	Grade Percentages			70%	30%	
Douglas-fir	11.8	379		265	114	5%
Total	Grade Percentages			70%	30%	
Douglas-fir	11.0	826		578	248	5%



• • • • • 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

Posted Stream Buffer

Unposted Stream Buffer

Yarding Method

Tractor Yarding AreaCable Corridors

XXXX Low Stocked Area

P - P - Buried Fiber Optic Cabel

Land Survey Monument

LOGGING PLAN

OF TIMBER SALE CONTRACT NO. 341-14-73 OLEMAN WINTER PORTIONS OF SECTIONS 9, 15, 16, 21 & 22, T10S, R7W, W.M., BENTON COUNTY, OREGON

This product is for informational use and may not have been prepared for or be suitable for legal, engineering or survey 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

	NET ACRES TRACTOR	NET ACRES CABLE
1 (PC) 2 (PC)	13 0	65 55
TOTAL	13	120



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