



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Howdy Pit Expansion
Sale FG-343-2019-001-

District: Forest Grove

Date: May 08, 2018

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$23,196.20	\$0.00	\$23,196.20
		Project Work:	\$0.00
		Advertised Value:	\$23,196.20



Timber Sale Appraisal Howdy Pit Expansion Sale FG-343-2019-001-

District: Forest Grove

Date: May 08, 2018

Timber Description

Location: Portions of Section 21, T3N R6W, Tillamook County, Oregon

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	27	0	98
Western Hemlock / Fir	31	0	98

Volume by Grade	2S	3S & 4S 6"-11"	Total
Douglas - Fir	39	5	44
Western Hemlock / Fir	4	0	4
Total	43	5	48

Comments: Pond Values Used: Local Pond Values, March 2018.

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost:
\$1,010.55/MBF = \$1,360/MBF - \$349.45/MBF

Red Alder and other Hardwoods Stumpage Price = Pond Value minus Logging Cost:
\$313.55/MBF = \$663/MBF - \$349.45/MBF

BRANDING AND PAINTING COST ALLOWANCE =\$2.00/MBF

FUEL COST ALLOWANCE =\$3.00/Gallon

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):
Machine Time to Pile Landing Slash and Sort Firewood:
10 hours x \$150/hour = \$1,500
Equipment Cleaning: 1 piece x \$1,000/Piece = \$1,000
TOTAL Other Costs (No Profit & Risk added) = \$2,500



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Logging Conditions

Combination#: 1	Douglas - Fir	100.00%
	Western Hemlock / Fir	100.00%
Logging System:	Shovel	Process: Manual Delimbing
yarding distance:	Short (400 ft)	downhill yarding: No
tree size:	Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF	
loads / day:	4	bd. ft / load: 4600
cost / mbf:	\$180.84	
machines:	Shovel Logger	



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Logging Costs

Operating Seasons: 0.00	Profit Risk: 12%
Project Costs: \$0.00	Other Costs (P/R): \$0.00
Slash Disposal: \$0.00	Other Costs: \$2,500.00

Miles of Road

Road Maintenance: \$0.00

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	4.8
Western Hemlock / Fir	\$0.00	2.0	4.0



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Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling / Brand & Paint	Other	Total
Douglas - Fir									
\$180.84	\$0.00	\$0.00	\$82.88	\$0.00	\$31.65	\$0.00	\$2.00	\$52.08	\$349.45
Western Hemlock / Fir									
\$180.84	\$0.00	\$0.00	\$99.45	\$0.00	\$33.63	\$0.00	\$2.00	\$52.08	\$368.00

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$845.00	\$495.55	\$0.00
Western Hemlock / Fir	\$0.00	\$716.00	\$348.00	\$0.00



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Summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00
Western Hemlock / Fir	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	44	\$495.55	\$21,804.20
Western Hemlock / Fir	4	\$348.00	\$1,392.00

Gross Timber Sale Value

Recovery: \$23,196.20

Prepared By: Kenton Burns

Phone: 503-359-7477

TIMBER SALE SUMMARY
Howdy Pit Expansion
Contract No. 343-19-001

1. **Location:** Portions of Section 21, T3N, R6W, W.M., Tillamook County, Oregon.
2. **Type of Sale:** Approximately 1.5 acres of clearcut to facilitate the expansion of the Howdy Rock Pit. The timber will be sold on a recovery basis at a sealed bid auction.
3. **Revenue Distribution:** 100% BOF, 100% Tillamook County, Tax Code 56-1.
4. **Sale Acreage:** Acres are net of stream buffers and road prisms. Acreage was determined using ESRI ArcMap GIS software.
5. **Cruise:** The Timber Sale was cruised by ODF Cruisers in April of 2018. A count measure cruise design was used measuring every third tree. A total of 50 trees were counted, 17 of which were measured and graded. All measure trees were graded following Columbia River Log Scale grade rules and favored 40 foot segments. Total tree heights were measured to the nearest foot. Bole heights were calculated to a six inch top. Diameters were measured outside bark at breast height to the nearest inch. Form factors were measured for each grade tree using a form point of 16 feet. Cruise estimates and sampling statistics, were derived from Super Ace 2008 cruise software. Five percent of the volume was subtracted from the computed volumes to account for hidden defect and breakage. A volume of 5 MBF was added to the total computed volume to account for an existing log deck at the timber sale area to be included in the timber sale.
6. **Timber Description:** The Timber Sale Area consists of a mature Douglas-fir stand with minor amounts of western hemlock, and noble fir. The stand has an average of 196 ft² of basal area for all species, an average Douglas-fir DBH of 27 inches, and an estimated average net Douglas-fir volume of approximately 40 MBF per acre.
7. **Topography and Logging Method:** Slopes within the sale areas range from 0% to 5%, and southern in aspect. The timber sale is 100% ground-based yarding. The average horizontal skid trail length is approximately 50 feet and the maximum is approximately 100 feet.
8. **Access:** All access to the Timber Sale Area is on surfaced all-weather roads. From Forest Grove, travel north on Highway 8 to its junction with Highway 6. Turn left and travel west approximately 3.5 miles to Timber Road. Turn right, proceed north on Timber Road approximately 6.5 miles and turn left onto Cochran Road. Continue west on Cochran Road for 8.6 miles. Turn right and continue for another 0.8 miles to the sale area.

VOLUME SUMMARY
(Shown in MBF)
Howdy Pit Expansion
343-19-001
April 2018

AREA 1: MC (1.5 ACRES)

SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	Cruise Volume	41	5	0	46
	Hidden D&B (5%)	(2)	()	()	(2)
	NET TOTAL	39	5	0	44
	% of Total	89	11	0	

SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
Noble Fir	Cruise Volume	4	0	0	4
	Hidden D&B (5%)	()	()	()	()
	NET TOTAL	4	0	0	4
	% of Total	100	0	0	

SALE TOTAL

SPECIES	2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	39	5	0	44
Noble Fir	4	0	0	4
SALE TOTAL	43	5	0	48



LOGGING PLAN

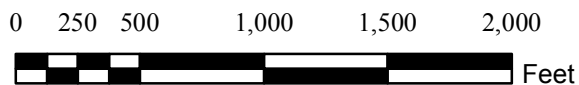
FOR TIMBER SALE CONTRACT # 343-19-001
 HOWDY PIT EXPANSION
 PORTIONS OF SECTIONS 21, T3N, R6W, W.M.
 TILLAMOOK COUNTY, OREGON

Forest Grove District GIS
 May, 2018

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

1:12,000

1 inch = 1,000 feet



Legend

- Timber Sale Boundary
- Tractor Yarding Area
- Roads
- Fish Stream
- Non-Fish Stream
- Sections



APPROXIMATE NET ACRES

	TRACTOR	CABLE
TOTAL	1.5	0