



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Goldie Logs
Sale FG-343-2019-W00415-01

District: Forest Grove

Date: March 12, 2019

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$99,326.00	\$0.00	\$99,326.00
		Project Work:	\$0.00
		Advertised Value:	\$99,326.00



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Timber Description

Location: Portions of Sections 35 & 36, T3N, R6W, W.M. Washington County, Oregon.

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	21	0	98

Volume by Grade	2S	3S & 4S 6"-11"	Total
Douglas - Fir	148	52	200
Total	148	52	200

Comments: Pond Values Used: Local Pond Values, March 2019.

Western Hemlock and Other Conifers Stumpage Price = Pond Value minus Logging Cost:
 $\$369.17/\text{MBF} = \$566/\text{MBF} - \$196.83/\text{MBF}$

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost:

$\$721.17/\text{MBF} = \$918/\text{MBF} - \$196.83/\text{MBF}$

Red Alder and Other Hardwoods Stumpage Price = Pond Value minus Logging Cost:
 $\$454.17/\text{MBF} = \$651/\text{MBF} - \$196.83/\text{MBF}$

BRANDING AND PAINTING COST ALLOWANCE = \$2.00/MBF

FUEL COST ALLOWANCE = \$3.00/Gallon

HAULING COST ALLOWANCE
Hauling costs equivalent to \$950 daily truck cost.

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

Other Costs (No Profit & Risk added):
Machine time to block/waterbar roads, and skid trails:
8 Hours @ \$150/Hr. = \$1,200
Equipment Cleaning: 1 x \$1,000/Machine = \$1,000
Fire Season Equipment: \$2,000
TOTAL Other Costs (No Profit & Risk added) = \$4,200

ROAD MAINTENANCE
Move-in: \$1,000
General Road Maintenance: 1.7 miles x \$500/mile = \$850
TOTAL: \$1,850/200 MBF = \$9.25/MBF



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Logging Conditions

Combination#: 1	Douglas - Fir	100.00%
Logging System:	Shovel	Process: Manual Delimbing
yarding distance:	Short (400 ft)	downhill yarding: No
tree size:	Mature / Partial Cut (900 Bft/tree), 3-5 logs/MBF	
loads / day:	10	bd. ft / load: 5500
cost / mbf:	\$60.50	
machines:	Shovel Logger	



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Logging Costs

Operating Seasons: 0.00	Profit Risk: 10%
Project Costs: \$0.00	Other Costs (P/R): \$0.00
Slash Disposal: \$0.00	Other Costs: \$4,200.00

Miles of Road

Road Maintenance: \$9.25

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	5.5



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Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas - Fir									
\$60.50	\$9.44	\$0.00	\$88.09	\$0.00	\$15.80	\$0.00	\$2.00	\$21.00	\$196.83

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$693.46	\$496.63	\$0.00



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Summary

Amortized

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

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	200	\$496.63	\$99,326.00

Gross Timber Sale Value

Recovery: \$99,326.00

Prepared By: Kenton Burns

Phone: 503-359-7477

CRUISE REPORT
Goldie Logs
FG-343-2019-W00415-01

1. LOCATION: Portions of Sections 35 and 36, T3N, R6W, W.M., Washington County, Oregon.

2. CRUISE DESIGN:

Pre-cruise evaluation indicated that the stand's average DBH is approximately 20 inches with a Coefficient of Variation of about 50%. For sales of this size and approximate value, ODF cruise standards require a Sampling Error of 13% at a 68% confidence level. Statistical analysis indicated that 14 variable radius plots utilizing a 20 BAF prism would produce an adequate sample size.

3. SAMPLING METHOD:

The Timber Sale Area was cruised in January 2019. The Timber Sale Area was sampled with 14 variable radius grade plots laid out on a 5 chain x 4 chain grid. Plots falling on or near existing roads or no-harvest areas were offset 1 chain, and cruisers chose 'take' trees as though selectively thinning for poles to 160 ft² of basal area.

4. CRUISE RESULTS:

55 take trees were measured and graded producing a cumulative Sampling Error of 5.5% on the Basal Area and 5.7% on the Board Foot Volume.

5. TREE MEASUREMENT AND GRADING:

All sample trees were measured and graded following Columbia River Log Scale grade rules and favored 40 foot segments.

- a) **Height Standards:** Total tree heights were measured to the nearest foot. Bole heights were calculated to a six inch top.
- b) **Diameter Standards:** Diameters were measured outside bark at breast height to the nearest inch.
- c) **Form Factors:** were measured for each grade tree using a form point of 16 feet.

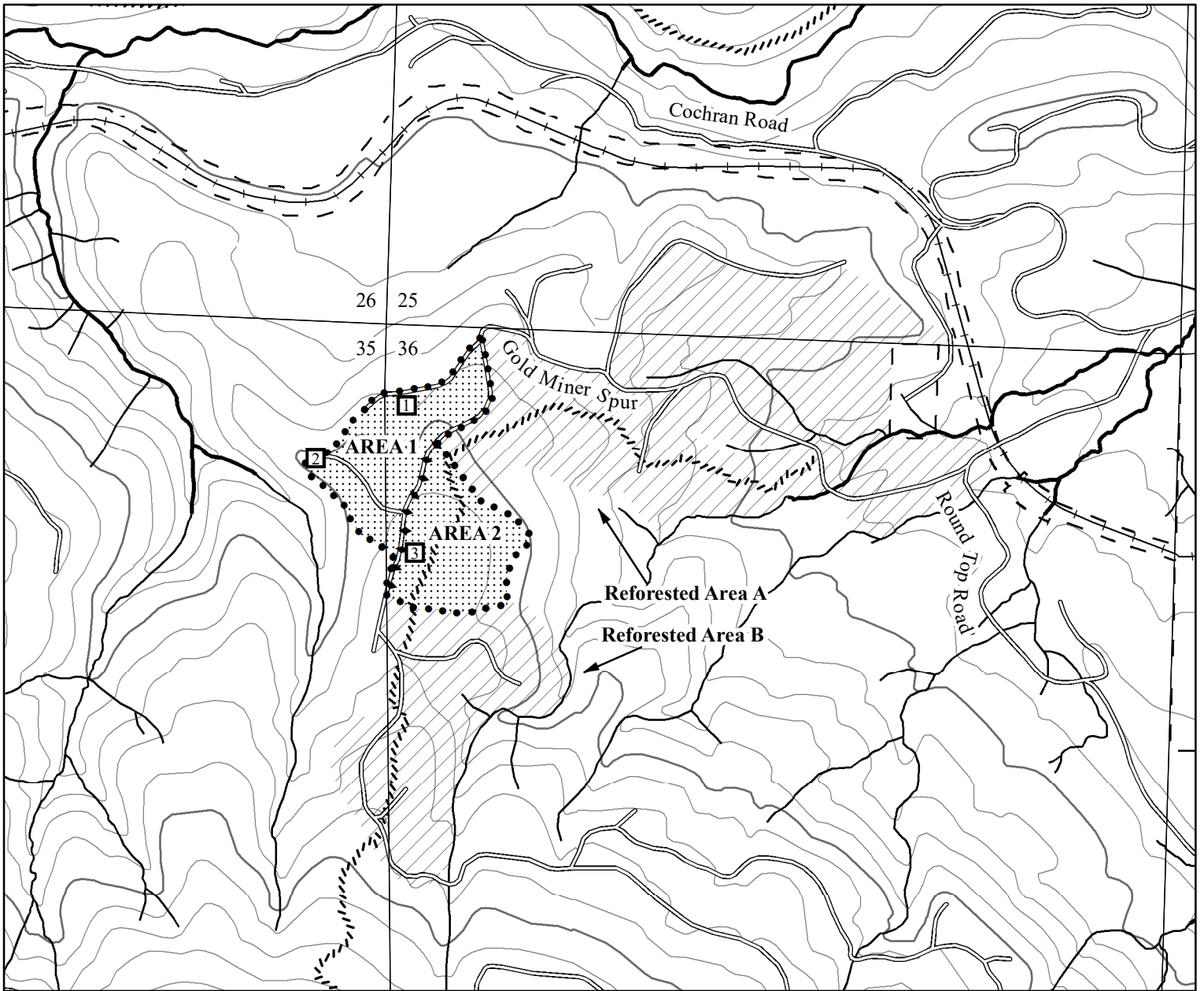
5. DATA PROCESSING:

- a) **Volumes and Statistics:** Cruise estimates and sampling statistics, were derived from Super Ace 2008 cruise software
- b) **Deductions:** Two percent of the volume was subtracted from the computed volumes to account for hidden defect and breakage.

6. CRUISERS: The sale was cruised by ODF cruisers Kenton Burns and Adrian Torres.

Prepared by:	<u>Kenton Burns</u>	<u>3/13/2019</u>
	Name	Date

Reviewed by:	<u>Mark Savage</u>	<u>3/13/2019</u>
	Name	Date



LOGGING PLAN

FOR TIMBER SALE CONTRACT FG-343-2019-W00415-01
GOLDIE LOGS
PORTIONS OF SECTIONS 35 & 36, T3N, R6W, W.M.,
WASHINGTON COUNTY, OREGON

Forest Grove District GIS
March, 2019

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
- ◆◆◆◆◆ Posted Area Boundary
- Surfaced Roads
- //// Recreation Trail
- +— Railroad
- Type-F Stream
- Type-N Stream
- Tractor Yarding Area
- Tractor Landing
- /// Reforested Area
- 200 Foot Contour Band
- 40 Foot Contour Band
- Section Line



APPROXIMATE NET ACRES

	TRACTOR	CABLE
AREA 1	14	0
AREA 2	14	0
TOTAL	28	0