Timber Sale Appraisal
Kennedy Ridge

Sale SW-341-2019-W00768-01

District: Western Lane **Date: December 26, 2018**

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	$498,466.70	$0.00	$498,466.70
		Project Work:	($106,242.00)
		Advertised Value:	$392,224.70

Timber Sale Appraisal
Kennedy Ridge

Sale SW-341-2019-W00768-01

"STEWARDSHIP IN FORESTRY"

District: Western Lane

Date: December 26, 2018

Timber Description

Location: Portions of Sections 25 & 26, T33S, R6W,W.M., Josephine County, Oregon.

Stand Stocking: 40%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	15	0	98
Incense Cedar	18	0	98
Sugar Pine	17	0	98
Ponderosa Pine	16	0	98

Volume by Grade	2S	3S & 4S 6"- 11"	6" - 11"	Camprun	Total
Douglas - Fir	330	1,105	0	0	1,435
Incense Cedar	0	0	6	0	6
Sugar Pine	0	0	0	27	27
Ponderosa Pine	0	0	0	2	2
Total	330	1,105	6	29	1,470

Comments: Pond Values Used: Local Pond Values November 2018.

Madrone and Other Hardwoods Stumpage Price = $50/MBF

Hauling Cost Allowance = equivalent to $950 daily truck cost.

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

Other Costs (No Profit & Risk added):

ORM Road Use Permit = $420.44

Final Road Maintenance = $8,258

TOTAL Other Costs (No Profit and Risk added) = $8,678.44

Logging Conditions

Combination#: 1	Douglas - Fir	100.00%
	Incense Cedar	100.00%
	Sugar Pine	100.00%
	Ponderosa Pine	100.00%

Logging System: Cable: Large Tower >=70 **Process:** Stroke Delimber

yarding distance: Long (1,500 ft) **downhill yarding:** No

tree size: Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF

loads / day: 6 **bd. ft / load:** 4500

cost / mbf: $229.63

machines: Log Loader (A)
Stroke Delimber (A)
Tower Yarder (Large)

Logging Costs

Operating Seasons:	2.00	**Profit Risk:**	10%
Project Costs:	$106,242.00	**Other Costs (P/R):**	$0.00
Slash Disposal:	$0.00	**Other Costs:**	$8,678.44

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	3.0	4.0
Incense Cedar	$0.00	3.0	4.0
Sugar Pine	$0.00	3.0	4.0
Ponderosa Pine	$0.00	3.0	4.0

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District: Western Lane **Date: December 26, 2018**

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas - Fir									
$229.63	$0.00	$5.97	$80.75	$0.00	$31.64	$0.00	$2.00	$5.90	$355.89
Incense Cedar									
$229.63	$0.00	$5.97	$80.75	$0.00	$31.64	$0.00	$2.00	$5.90	$355.89
Sugar Pine									
$229.63	$0.00	$5.97	$80.75	$0.00	$31.64	$0.00	$2.00	$5.90	$355.89
Ponderosa Pine									
$229.63	$0.00	$5.97	$80.75	$0.00	$31.64	$0.00	$2.00	$5.90	$355.89

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	$0.00	$700.00	$344.11	$0.00
Incense Cedar	$0.00	$800.00	$444.11	$0.00
Sugar Pine	$0.00	$425.00	$69.11	$0.00
Ponderosa Pine	$0.00	$425.00	$69.11	$0.00

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District: Western Lane

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Summary

Amortized

Specie	**MBF**	**Value**	**Total**
Douglas - Fir	0	$0.00	$0.00
Incense Cedar	0	$0.00	$0.00
Sugar Pine	0	$0.00	$0.00
Ponderosa Pine	0	$0.00	$0.00

Unamortized

Specie	**MBF**	**Value**	**Total**
Douglas - Fir	1,435	$344.11	$493,797.85
Incense Cedar	6	$444.11	$2,664.66
Sugar Pine	27	$69.11	$1,865.97
Ponderosa Pine	2	$69.11	$138.22

Gross Timber Sale Value

Recovery: $498,466.70

Prepared By: Kevin Gehrig

Phone: 541-935-2283

State Timber Sale Contract
Kennedy Ridge
SW-341-2019-W00768-01

New Road Construction Costing

Summary:

Total construction Cost Including Risk	$	**32,938.00**

Road Spur 1 (Stationing 0+00 to 55+50)

End Haul Subgrade Construction							
Waste End Haul	$ 4.00	per Cu. Yd.	@	715 cuyd	=	$	2,860.00
Landing Construction	$ 446.47	per landing	@	1 landing	=	$	447.00
Drainage Dips	$ 200.00	per dip	@	5 dips	=	$	1,000.00
Subgrade preparation	$ 61.02	per station	@	55.5 stations	=	$	3,387.00
Subtotal Construction Cost						$	7,694.00
Construction Cost per Station						**$**	**139**

Road Spur 2 (Stationing 0+00 to 18+00)

Segment 0+00 to 7+30

				Quantity			Sub total
Clearing and Grubbing	$210.14	per station	@	7.30 stations	=	$	1,534.00
note: Clearing debris shall be piled to facilitate burning							
End Haul Subgrade Construction							
Stump End Haul	$ 9.84	per stump	@	84 stumps	=	$	827.00
Waste End Haul	$ 2.77	per Cu. Yd.	@	3982 cuyd	=	$	11,031.00
Subgrade preparation	$ 44.22	per station	@	7.30 stations	=	$	323.00
Landing Construction	$ 446.47	per landing	@	1 landing	=	$	447.00
Subtotal Construction Cost						$	14,162.00
Construction Cost per Station						**$**	**1,940**

Segment 7+30 to 18+00

Clearing and Grubbing	$ 143.36	per station	@	10.7 stations	=	$	1,534.00
note: Clearing debris shall be piled to facilitate burning							
Balance/Standard Subgrade construction							
Drift/Balance Cut	$ 322.00	per station	@	10.7 stations	=	$	3,446.00
Landing Construction	$ 446.47	per landing	@	1 landing	=	$	447.00
Subgrade preparation	$ 44.22	per station	@	10.7 stations	=	$	474.00
Subtotal Construction Cost						$	5,901.00
Construction Cost per Station						**$**	**551**

Road Spur 2a (Stationing 0+00 to 2+56)

Clearing and Grubbing	$ 101.95	per station	@	2.56 stations	=	$	261.00
note: Clearing debris shall be piled to facilitate burning							
Balance/Standard Subgrade construction							
Drift/Balance Cut	$ 139.93	per station	@	2.56 stations	=	$	359.00
Landing Construction	$ 446.47	per landing	@	1 landing	=	$	447.00
Subgrade preparation	$ 44.22	per station	@	2.56 stations	=	$	114.00
Subtotal Construction Cost						$	1,181.00
Construction Cost per Station						**$**	**461**

Equipment Move In Costs:	**$**	**4,000.00**
Total Subgrade Construction Cost for Kennedy Ridge Spurs	**$**	**32,938.00**

State Timber Sale Contract
Kennedy Ridge
SW-341-2019-W00768-01

London Quarry Costing

Summary:

Cost Per Cu. Yd.							**$**	**13.00**

Process Rock

End Haul Subgrade Construction								
Mobilization "Move-in"			Lump Sum			=	$	2,000.00
Rip/Excavate Pit-RUN	$	2.00	per Cu. Yd.	@	3530 Cu. Yds.	=	$	7,060.00
Overburden/ 11% Pitrun Reject	$	4.00	per Cu. Yd. @	@	400 Cu. Yds.	=	$	1,600.00
Development/Maintenance	$	400.00	per station	@	10 stations	=	$	4,000.00
					Subtotal rock processing costs		$	14,660.00

Haul Costs

Hourly Cost								
Hourly Truck Rate	$	90.00	per hour	@	0.664 hrs. per trip	=	$	59.76
Load + Dump	$	90.00	per hour	@	0.16 hrs. per trip	=	$	14.40
					Subtotal Hourly Cost		$	74.16
Cost per Cu. Yds.	$	74.16	per hour	@	10 Cu. Yds.	=	$	7.42
Total Haul Cost							**$**	**26,179.00**

Cost per Cu. Yd.

Process rock Cost per yard	$	14,660.00	total	@	3530 Cu. Yds.	=	$	4.15
Transport Cost per Yard	$	74.16	per hour	@	10 Cu. Yds.	=	$	7.42
Unforeseen Expense			11 percent profit and risk			=	$	1.43
Total Cost per Cu. Yd.							**$**	**13.00**

State Timber Sale Contract
SW-341-2019-W00768-01
Kennedy Ridge

Final Road Maintenance Cost Summary

Totals	Spur 1	Spur 2	Spur 2a	34-6-5.0	33-6-33.0	Road 33-6-33.4	**TOTAL**
Stations	55.50	18.00	2.56	92.49	39.24	26.38	
Cost/Sta	$ 46.58	$ 73.61	$ 84.76	$ 18.35	$ 18.35	$ 18.35	
Total Cost	**$ 2,585.36**	**$ 1,324.92**	**$ 216.98**	**$ 1,697.19**	**$ 720.05**	**$ 484.07**	**$ 7,028**

Spot Rocking	Spur 1	Spur 2	Spur 2a	34-6-5.0	33-6-33.0	Road 33-6-33.4	**TOTAL**
Total Yds	30	20	0	0	0	0	
Rock Size	1 1/2"-0"	1 1/2"-0"	1 1/2"-0"	1 1/2"-0"	1 1/2"-0"	1 1/2"-0"	
$/yd	$22.23	$22.23	$22.23	$22.23	$22.23	$22.23	
Subtotal	$ 667	$ 445	$ -	$ -	$ -	$ -	**$ 1,112**

Grade,Shape & Pull Ditches	Spur 1	Spur 2	Spur 2a	34-6-5.0	33-6-33.0	Road 33-6-33.4	**TOTAL**
Stations	55.50	18.00	2.56	92.49	39.24	26.38	
$/STA	$ 18.35	$ 18.35	$ 18.35	$ 18.35	$ 18.35	$ 18.35	
Subtotal	$ 1,018	$ 330	$ 47	$ 1,697	$ 720	$ 484	**$ 4,296**

Install Waterbars	Spur 1	Spur 2	Spur 2a	34-6-5.0	33-6-33.0	Road 33-6-33.4	**TOTAL**
# of waterbars	20.00	10.00	2.00	0.00	0.00	0.00	
$/waterbar	$35.00	$35.00	$35.00	$35.00	$35.00	$35.00	
Subtotal	$ 700.00	$ 350.00	$ 70.00	$ -	$ -	$ -	**$ 1,120.00**

Landing clean up	Spur 1	Spur 2	Spur 2a	34-6-5.0	33-6-33.0	Road 33-6-33.4	**TOTAL**
Stations	2.00	2.00	1.00	0.00	0.00	0.00	
$/STA	$ 100.00	$ 100.00	$ 100.00	$ 100.00	$ 100.00	$ 100.00	
Subtotal	$ 200	$ 200	$ 100	$ -	$ -	$ -	**$ 500**

Move In	Initial	Between Proj.
Grader	$ 500	
Vibratory Roller		
D * Cat		
Excavator	$1,000	
Dump Truck		

Move in costs associated with one entry for the entire project

Total Final Maintenance Costs **$ 8,528**

Howard 12/26/2018

State Timber Sale Contract
Kennedy Ridge
SW-341-2019-W00768-01

Rock and Processing Costing

Summary:

Total Rocking Cost	**$ 73,304.00**
Quantity of loose truck aggregate. Cu. Yds.	**4370.00**

Road Spur 1 (Stationing 0+00 to 55+50)

Segment 0+00 to 55+50

Purpose	Location	Type	Loose Truck	Quantity per Station	Cost	Processing	Subtotal
Base	0+00 to 55+50	Pit Run	2220 Cu. Yds.	@ 40 Cu. Yds. / sta	$ 13.00	$ 2.00 per Cu. Yds	$ 33,300.00
Cap	0+00 to 55+50	1 1/2" -0"	610 Cu. Yds.	@ 11 Cu. Yds. / sta	$ 22.23	$ 2.00 per Cu. Yds	$ 14,781.00
Landing	55+45	Pit Run	40 Cu. Yds.		$ 13.00	$ 2.00 per Cu. Yds	$ 600.00
Curve Widening	Determined by STATE	Pit Run	160 Cu. Yds.		$ 13.00	$ 2.00 per Cu. Yds	$ 2,400.00
Turnout	Determined by STATE	Pit Run	10 Cu. Yds.		$ 13.00	$ 2.00 per Cu. Yds	$ 150.00
Turnout	Determined by STATE	Pit Run	10 Cu. Yds.		$ 13.00	$ 2.00 per Cu. Yds	$ 150.00
				Subtotal Rock Cost			**$ 51,381.00**

Road Spur 2 (Stationing 0+00 to 18+00)

Segment 0+00 to 18+00

Purpose	Location	Type	Loose Truck	Quantity per Station	Cost	Processing	Subtotal
Base	0+00 to 18+00	Pit Run	720 Cu. Yds.	@ 40 Cu. Yds. / sta	$ 13.00	$ 2.00 per Cu. Yds	$ 10,800.00
Cap	0+00 to 18+00	1 1/2" -0"	200 Cu. Yds.	@ 11 Cu. Yds. / sta	$ 22.23	$ 2.00 per Cu. Yds	$ 4,846.00
Landing	7+20	Pit Run	40 Cu. Yds.		$ 13.00	$ 2.00 per Cu. Yds	$ 600.00
Landing	18+00	Pit Run	40 Cu. Yds.		$ 13.00	$ 2.00 per Cu. Yds	$ 600.00
Curve Widening	Determined by STATE	Pit Run	150 Cu. Yds.		$ 13.00	$ 2.00 per Cu. Yds	$ 2,250.00
				Subtotal Rock Cost			**$ 19,096.00**

Road Spur 2a (Stationing 0+00 to 2+56)

Segment 0+00 to2+56

Purpose	Location	Type	Loose Truck	Quantity per Station	Cost	Processing	Subtotal
Base	0+00 to 2+56	Pit Run	100 Cu. Yds.	@ 40 Cu. Yds. / sta	$ 13.00	$ 2.00 per Cu. Yds	$ 1,500.00
Cap	0+00 to 2+56	1 1/2" -0"	30 Cu. Yds.	@ 11 Cu. Yds. / sta	$ 22.23	$ 2.00 per Cu. Yds	$ 727.00
Landing	5+00	Pit Run	40 Cu. Yds.		$ 13.00	$ 2.00 per Cu. Yds	$ 600.00
				Subtotal Rock Cost			**$ 2,827.00**

Kennedy Ridge
SW-341-2019-W00768-01
Combined Project Costs

Project 1	New construction & Rocking	$43,167.00
Project 2	Road Improvement & Rocking	$59,075.00
Project 3	Equipment Move-In	$4,000.00
	TOTAL PROJECT COSTS	$106,242.00

Cruise Report

Kennedy Ridge

SALE # 341-2019-W00768-01

Sale Area: Portions of Section 25 & 26, T33S, R6W, W.M., Josephine County, Oregon. The sale's net harvestable acres are 85. There are approximately 3 acres of stream buffers. Acres were determined using a combination of aerial photos, GPS, GIS, and topographic maps.

Stand Description: Kennedy Ridge is dominated by 72 year old Douglas-fir. A small component of ponderosa pine, sugar pine, incense cedar, and madrone are present. The hardwood component is scattered throughout the unit. The understory consists of primarily common whipplea, Pacific poison oak and oceanspray. The slopes are primarily 65% and above in Area 1. There are three small type N streams located in Area 1. This unit was appraised cable based operations.

Cruise Method: The area was cruised in a grid pattern using a systematic variable radius plot sampling method. 42 plots were cruised. Every tree was graded using the official rules for log scaling for the above species. 40, 34, 26 and 17 foot lengths were favored for #2 and #3 sawlog grades. Deductions for defect were estimated on a tree by tree basis. Logs that were not at least 16 feet in length and having at least 20 bf were not counted. Large trees with old-growth characteristics were also not counted in the cruise.

Volume Tables: Volumes were computed using the SuperACE program.

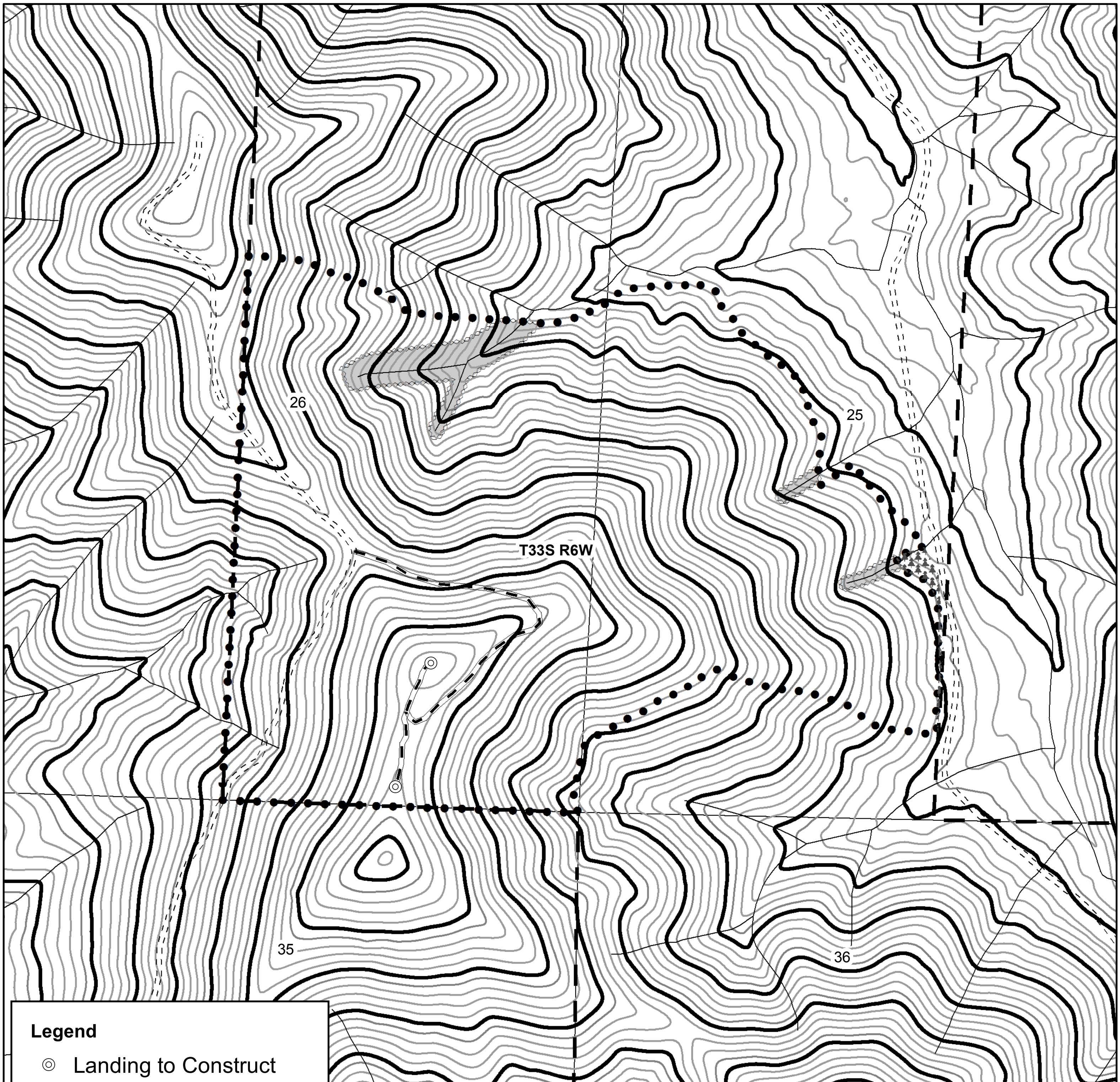
Area 1 Net Cruised Volume (MBF)

Species	Avg. DBH	Special Mill	2 Saw	3 Saw	4 Saw	Camp Run	Sub-Total
Douglas-fir	15		330	743	362		1435
Sugar pine	17					27	27
Ponderosa pine	16					2	2
Incense cedar	18					6	6
Pacific madrone	13					89	89

Total (MBF): **1470** (Total volume does not include madrone)

Note: A breakage and defect was applied to the volume in the appraisal.

Average MBF/Acre: 17 (Does not include madrone)



Legend

- ◎ Landing to Construct
- Timber Sale Boundary
- BOF (Board of Forestry)

Roads

- All weather
- Dirt
- New Road Construction
- Green Tree Retention

Streams

- Fish
- Nonfish
- Stream Buffer

Logging Map

OF TIMBER SALE CONTRACT NO. 341-2019-W00768-01
KENNEDY RIDGE
PORTIONS OF SECTIONS 25 & 26, T33S, R6W, W.M.
JOSEPHINE COUNTY, OREGON

20ft Contours

0 250 500 1,000 Feet

1 inch = 500 feet

N

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.

"STEWARDSHIP IN FORESTRY"