



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
At Any KOSS
Sale KL-341-2023-W00672-01

District: Klamath/Lake

Date: June 15, 2022

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$663,985.53	\$0.00	\$663,985.53
		Project Work:	(\$74,425.65)
		Advertised Value:	\$589,559.88



Timber Sale Appraisal At Any KOSS Sale KL-341-2023-W00672-01

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Timber Description

Location:

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
White Fir	19	0	95
Ponderosa Pine	19	0	95

Volume by Grade	2S	3S & 4S 6"-11"	6" - 11"	12"-15"	16"+	Total
White Fir	287	62	0	0	0	349
Ponderosa Pine	0	0	1,435	1,302	1,480	4,217
Total	287	62	1,435	1,302	1,480	4,566

Comments: Pond Values Used: Local Pond Values, March 2022.

Lodgepole and Sugar Pine volumes are negligible, and were not included in the cruise volume. Prices associated are based on local value.

Lodgepole: \$110.00 per mbf

Sugar Pine: \$125.00 per mbf

Log Markets: Klamath Falls and Medford.

Other Costs (no Profit & Risk): None

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

ROAD MAINTENANCE

Move-in: \$500.00

General Road Maintenance: 3.5 miles x \$211.00 per mile x 1 bladings = \$738.00

Total Road Maintenance: \$1,238.50, \$0.27 per Mbf



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Logging Conditions

Combination#: 1 White Fir 95.00%
 Ponderosa Pine 58.00%

Logging System: Wheel Skidder **Process:** Feller Buncher
yarding distance: Medium (800 ft) **downhill yarding:** Yes
tree size: Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF
loads / day: 10 **bd. ft / load:** 4000
cost / mbf: \$94.92
machines: Log Loader (B)
 Stroke Delimber (B)
 Feller Buncher w/ Delimber
 Tire Skidder

Combination#: 2 White Fir 5.00%
 Ponderosa Pine 42.00%

Logging System: Track Skidder **Process:** Manual Falling/Delimbing
yarding distance: Medium (800 ft) **downhill yarding:** Yes
tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF
loads / day: 10 **bd. ft / load:** 4300
cost / mbf: \$106.60
machines: Log Loader (B)
 Track Skidder



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Logging Costs

Operating Seasons: 1.00	Profit Risk: 10%
Project Costs: \$74,425.65	Other Costs (P/R): \$0.00
Slash Disposal: \$0.00	Other Costs: \$0.00

Miles of Road

Road Maintenance: \$0.27

Dirt	Rock (Contractor)	Rock (State)	Paved
0.0	0.0	0.0	0.0

Hauling Costs

Species	\$ / MBF	Trips/Day	MBF / Load
White Fir	\$0.00	3.0	4.2
Ponderosa Pine	\$0.00	3.0	4.5



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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
White Fir									
\$95.50	\$0.28	\$0.96	\$100.00	\$0.00	\$19.67	\$0.00	\$2.00	\$0.00	\$218.41
Ponderosa Pine									
\$99.83	\$0.28	\$0.96	\$93.33	\$0.00	\$19.44	\$0.00	\$2.00	\$0.00	\$215.84

Specie	Amortization	Pond Value	Stumpage	Amortized
White Fir	\$0.00	\$467.98	\$249.57	\$0.00
Ponderosa Pine	\$0.00	\$352.64	\$136.80	\$0.00



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Summary

Amortized

Specie	MBF	Value	Total
White Fir	0	\$0.00	\$0.00
Ponderosa Pine	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
White Fir	349	\$249.57	\$87,099.93
Ponderosa Pine	4,217	\$136.80	\$576,885.60

Gross Timber Sale Value

Recovery: \$663,985.53

Prepared By: James Monteil

Phone: 541-883-5681

At Any KOSS
KL-341-2023-W0067201

Other Costs

Road Maintenance

Move-in cost (grader):	\$500.00
Number of Miles to be Bladed:	3.5
Number of Bladings:	1
Total Miles	3.5
Miles / Hour for equipment:	0.5
Cost / Hour (grader with operator):	\$105.50
Total Grading Hours:	7
Grading Cost:	\$738.50
	<u>\$1,238.50</u>
Total Cost:	\$1,238.50
Cost / Mbf:	\$0.27

At Any KOSS

KL-341-2023-W00672-01

Project Costs

Project #1 Dust Abatement

PP	4217 Mbf	92.4%	Average Load	4.5 Mbf	No. of Load:	937
WF	349 Mbf	7.6%	Average Load	4.2 Mbf	No. of Load:	83
Total:	4566 Mbf				Total Loads	1020

Assume:	4 Trucks/Day					
	3 Trips/Day				85 Days of Dust Abatement	
	12 Loads per Day			1.5 Hours/Day		
	85 Hauling Days			\$88.00 Cost/Hour		
				127.5 Total Hours		
				\$200.00 Move in for Water Truck		
				\$11,422.27 Dust Abatement Cost		
				\$11,422.27 Total Cost		
				\$2.50 Cost/Mbf		

Project #2 Landing Piling and Clean Up

Number of Landings: 32

Shovel Time:	1 Hour per Landing	Cost per Hour:	\$125.00	Total Cost	\$4,000.00
Cat Time:	1 Hour per Landing	Cost per Hour:	\$132.50	Total Cost	<u>\$4,240.00</u>
				Total Cost	\$8,240.00
		Total	\$8,240.00		
		per MBF	\$1.80		

Project #3 Pre Bunch Hand Felled

Number of Landings: 18

Prebunch Hand Cut Timber for Skidding					
5 Hours per Landing	Cost per Hour:	\$132.50	Total Cost	\$11,925.00	
	Total	\$11,925.00			
	per MBF	\$2.61			

At Any KOSS

KL-341-2023-W00672-01

Project Costs

Project #4 Road Improvement

Move in Cost Dozer: \$500.00

Improvement

	Points	Distance (ft)	Feet/Hour	Hours	Cost/Hour	Cost
Open/Clear/Shape	A to M	7907	1000	7.9	\$132.50	\$1,047.68
Open/Clear/Shape	B to C	1092	1000	1.1	\$132.50	\$144.69
Open/Clear/Shape	D to E	1170	1000	1.2	\$132.50	\$155.03
Open/Clear/Shape	F to G	2292	1000	2.3	\$132.50	\$303.69
Open/Clear/Shape	H to I	1640	1000	1.6	\$132.50	\$217.30
Open/Clear/Shape	H to J	2431	1000	2.4	\$132.50	\$322.11
Open/Clear/Shape	L to K	1158	1000	1.2	\$132.50	\$153.44
Open/Clear/Shape	J to N	3645	1000	3.6	\$132.50	\$482.96
Open/Clear/Shape	R to Q	466	1000	0.5	\$132.50	\$61.75
Open/Clear/Shape	O to P	1680	1000	1.7	\$132.50	\$222.60
Open/Clear/Shape	S to T	311	1000	0.3	\$132.50	\$41.21
	Total	23792			Total	\$1,868.38

Project #4 Summary

Move in Costs	\$500.00
Improvement Costs	\$1,868.38
Project #3 Total	\$2,368.38
per MBF	\$0.52

At Any KOSS
KL-341-2023-W0067201

Project Costs

Project #5 Road Closures

Road Closures

8	Number of Closure Points - Point A, G, J, M, R, N, S, and O
\$132.50	Cost per Hour (Cat)
\$1,060.00	Total
\$0.23	per Mbf

Project #6 Slash and Brush Piling

Equipment Move In:	\$500.00
Acres to be Piled	100
Hours per Acre	2
Cost per Hour	\$150.00
Cost of Piling	\$30,000.00
Total Cost	\$30,500.00
per Mbf	\$6.68

Project #7 Felling, Skidding, and Piling of Submerchantable Trees

Total Sub-Sawlog Volume: 71 MBF

Fell and Skid/MBF:	\$65.00
Sort/MBF:	\$25.00
Total	\$6,390.00
per MBF	\$1.40

Project #8 Precommercial Thinning of Pumice Pit

	Hours		Cost per Hour		Total
Feller Buncher	8	\$	165.00	\$	1,320.00
Skidder	4	\$	150.00	\$	600.00
Shovel	4	\$	150.00	\$	600.00
Total Cost				\$	2,520.00

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Project Costs

Project No. 1 - Dust Abatement	\$11,422.27
Project No. 2 - Landing Piling	\$8,240.00
Project No.3 - Pre Bunch Hand Felled	\$11,925.00
Project No. 4 - Road Improvement	\$2,368.38
Project No.5- Road Closures	\$1,060.00
Project No.6- Slash and Brush Piling	\$30,500.00
Project No.7 - Fell, Skid, and Pile Submerch	\$6,390.00
Project No.8 - Precommercial Thinning of Pumice Pit	\$2,520.00
Total Cost	\$74,425.65
per Mbf	\$16.30

At Any KOSS

KL-341-2023-W00672-01
Cruise Report



SALE NAME: At Any KOSS

LEGAL DESCRIPTION:

Section(s) 10, 11, 14, and 15 of T33S, R7.5E, Willamette Meridian, Klamath County, Oregon.

ACREAGE:

Gross Acres: 729
Exclusion Acres: 2
Contingency Acres: 18
Jackstraw Acres: 6
Net Acres: 703

*Contingency and Jackstraw acres will be harvested; however, they were not included in the cruise due to unrepresentative volumes.

Acreage was determined using data collected using GPS and compiled using ArcMap.

TREATMENT:

The timber sale is a single tree selection partial cut. All leave trees are marked with orange paint down to 5.0 inches dbh.

CRUISE METHOD:

Merchantable volume on the timber sale was sampled using a variable plot cruise with a ratio of one measure plot for every count plot.

BASAL AREA FACTOR:

BAF	Type Acreage
13.61 BAF	703 acres

FORM POINT:

All trees were sighted at D.B.H.

VOLUME COMPUTATION:

All cruise data was compiled using SuperACE.

FINAL CRUISE RESULTS:

CV%	SE%	Acres
47.9	8.0	703

TIMBER DESCRIPTION**SAWLOG VOLUME:**

All material graded camprun. See grade table for minimum standards.

Species	Average DBH	Gross Volume per acre (bf/acre)	Net Volume per acre (bf/acre)	Gross Volume per area (Mbf)	Net Volume per area (Mbf)
Ponderosa pine	19.2	6,041	5,999	4,247	4,217
White fir	19.3	496	496	349	349
Combined	19.3	6,537	6,495	4,596	4,566

TOTAL NET SAWLOG VOLUME: 4,566 MBF

GREEN PULP VOLUME


This volume was obtained by combining the green pulp volume from the variable plot cruise with the fixed plot cruise (5.0" – 8.0" DBH). All material was graded green pulp, see grade table for minimum standards.

Cruise	Volume per Acre (bf/ac)	Gross Volume (Mbf)
Variable	101	71
Fixed	0	0
Total	101	71

TOTAL GREEN PULP VOLUME: 71 MBF

LOGGING PLAN

Of Timber Sale
KL-341-2023-W00672-01
At Any KOSS
Section(s) 2, 3, 10, 11, 14,
and 15
Of T33S, R7.5E,
Willamette Meridian,
Klamath County, Oregon
Net acres: 703
Exclusion Acres: 2

-  At Any KOSS
-  Exclusion
-  Landing
-  Skid Trails
-  Surfaced Road
-  Unsurfaced Road
-  Blocked Road
-  Road Improvement

