Timber Sale Appraisal
3Peat

Sale KL-341-2022-W00674-01

District: Klamath/Lake

Date: July 27, 2021

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	$433,849.50	$0.00	$433,849.50
		Project Work:	($26,535.74)
		Advertised Value:	$407,313.76

Timber Sale Appraisal
3Peat
Sale KL-341-2022-W00674-01

District: Klamath/Lake **Date: July 27, 2021**

Timber Description

Location:

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
White Fir	18	0	95
Sugar Pine	25	0	95
Ponderosa Pine	19	0	95

Volume by Grade	2S	3S & 4S 6"-11"	6" - 11"	12"-15"	16"+	Total
White Fir	220	146	0	0	0	366
Sugar Pine	0	0	117	49	273	439
Ponderosa Pine	0	0	1,171	828	467	2,466
Total	220	146	1,288	877	740	3,271

Comments: Pond Values Used: Local Pond Values, June 2021.

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: 7.8 miles x $211.00 per mile x 2 bladings = $3,291.60
Total Road Maintenance: $3,791.60, $1.16 per Mbf

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Sale KL-341-2022-W00674-01

District: Klamath/Lake **Date: July 27, 2021**

Logging Conditions

Combination#: 1

White Fir	100.00%
Sugar Pine	60.00%
Ponderosa Pine	94.00%

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:** 4200

cost / mbf: $90.40

machines:
Log Loader (B)
Stroke Delimber (B)
Feller Buncher w/ Delimber
Tire Skidder

Combination#: 2

Sugar Pine	40.00%
Ponderosa Pine	6.00%

Logging System: Track Skidder **Process:** Manual Falling/Delimbing

yarding distance: Medium (800 ft) **downhill yarding:** Yes

tree size: Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF

loads / day: 11.5 **bd. ft / load:** 3700

cost / mbf: $103.66

machines:
Log Loader (B)
Track Skidder

Timber Sale Appraisal
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Sale KL-341-2022-W00674-01

District: Klamath/Lake **Date: July 27, 2021**

Logging Costs

Operating Seasons:	1.00	**Profit Risk:**	10%
Project Costs:	$26,535.74	**Other Costs (P/R):**	$0.00
Slash Disposal:	$0.00	**Other Costs:**	$0.00

Miles of Road

Road Maintenance: $1.16

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	3.8
Sugar Pine	$0.00	3.0	4.2
Ponderosa Pine	$0.00	3.0	4.0

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District: Klamath/Lake **Date: July 27, 2021**

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
White Fir									
$90.40	$1.22	$1.34	$87.50	$0.00	$18.05	$0.00	$2.00	$0.00	$200.51
Sugar Pine									
$95.70	$1.22	$1.34	$79.17	$0.00	$17.74	$0.00	$2.00	$0.00	$197.17
Ponderosa Pine									
$91.20	$1.22	$1.34	$83.13	$0.00	$17.69	$0.00	$2.00	$0.00	$196.58

Specie	Amortization	Pond Value	Stumpage	Amortized
White Fir	$0.00	$431.00	$230.49	$0.00
Sugar Pine	$0.00	$334.87	$137.70	$0.00
Ponderosa Pine	$0.00	$313.79	$117.21	$0.00

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Sale KL-341-2022-W00674-01

District: Klamath/Lake **Date: July 27, 2021**

Summary

Amortized

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

Unamortized

Specie	MBF	Value	Total
White Fir	366	$230.49	$84,359.34
Sugar Pine	439	$137.70	$60,450.30
Ponderosa Pine	2,466	$117.21	$289,039.86

Gross Timber Sale Value

Recovery: $433,849.50

Prepared By: James Monteil **Phone:** 541-883-5681

3Peat

KL-341-2022-W00674-01

Other Costs

Road Maintenance	
Move-in cost (grader):	$500.00
Number of Miles to be Bladed:	7.8
Number of Bladings:	2
Total Miles	15.6
Miles / Hour for equipment:	0.5
Cost / Hour (grader with operator):	$105.50
Total Grading Hours:	31
Grading Cost:	$3,291.60
	$3,791.60
Total Cost:	$3,791.60
Cost / Mbf:	$1.16

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KL-341-2022-W00674-01

Project Costs

Project #1 Dust Abatement

PP	2466	Mbf	75.4%	Average Loac	4.0	Mbf	No. of Loac 617
SP	439	Mbf	13.4%	Average Loac	4.2	Mbf	No. of Loac 105
WF	366	Mbf	11.2%	Average Loac	3.8	Mbf	No. of Loac 96
Total:	**3271**	**Mbf**					**Total Loads** **817**

Assume:	6	Trucks/Day		
	2	Trips/Day	68	Days of Dust Abatement
	12	**Loads per Day**	1.5	Hours/Day
	68	**Hauling Days**	$88.00	Cost/Hour
			102	Total Hours
			$200.00	Move in for Water Truck
			$9,190.74	Dust Abatement Cost
			$9,190.74	**Total Cost**
			$2.81	Cost/Mbf

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KL-341-2022-W00674-01

Project Costs

Project #2 Slash Piling and Landing Cleanup

Landing Piling

Number of Landings: 14

Shovel Time:	1 Hour per Landing	Cost per Hou	$125.00	Total Cost	$1,750.00
Cat Time:	1 Hour per Landing	Cost per Hou	$132.50	Total Cost	$1,855.00

Total	**$3,605.00**
per MBF	$1.10

Unit Piling

Equipment Move In:	$500.00
Acres to be Piled	45
Hours per Acre	2
Cost per Hour	$100.00
Cost of Piling	$9,000.00
Total Cost	**$9,500.00**
per Mbf	$2.90

Project #2 Summary

Landing Piling	$3,605.00
Unit Piling	$9,500.00
Total Cost	**$13,105.00**
per Mbf	$4.01

3Peat

KL-341-2022-W00674-01

Project Costs

Project #3 Road Closures and Waterbarring

Road Closures

4	Number of Closure Points - Point A, B, C, and D
$132.50	Cost per Hour (Cat)
$530.00	**Total**
$0.16	per Mbf

Skid Trail Waterbarring

14	Number of Landings
2	Hours per Landing
$132.50	Cost per Hour (Cat)
$3,710.00	**Total**
$1.13	per Mbf

Project #3 Summary

Road Closure:	$530.00
Skid Trail Waterbarring:	$3,710.00
Total:	**$4,240.00**
per Mbf:	$1.30

Cost Summary All Projects

Project No. 1 - Dust Abatement	$9,190.74
Project No. 2 - Slash Piling/Landing Cleanup	$13,105.00
Project No. 3 - Road Closures and Waterbarring	$4,240.00
Total Cost	**$26,535.74**
per Mbf	$8.11

3Peat

KL-341-2022-W00674-01
Cruise Report

"STEWARDSHIP IN FORESTRY"

SALE NAME: 3Peat

LEGAL DESCRIPTION:

Township 32 South, Range 7 East, Portion of Section(s)17, 20, 21, 28, 29, and 33 Willamette Meridian, Klamath County, Oregon.

ACREAGE:

The timber sale is 454 acres.

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

TREATMENT:

The timber sale is a selection cut based on prescription by description and is a purchaser select cut with requirements listed in contract Section 2320, “Thinning Specifications”.

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:

Stand	BAF	Type Acreage
Area	14 BAF	454 acres

FIXED PLOT:

Stand	Radius	Type Acreage
Area	16.6	454

PLOT DESIGNATION:

Plot centers were established at every plot with pin flags and candy stripe blue and white flagging attached to the nearest available tree branch listing the plot number.

SAMPLE SIZE:

36 plots

Measurements and Grading:

- DBH and Height were measured on all “in” trees for measure plots.
- Submerch volume and sawlog volume cruised.
- See attached species and grade tables for minimum requirements.
- All trees were graded using the segment system.

TREE HEIGHT:

All trees were measured to a fixed diameter outside bark. This height is usually taken as high up the bole as possible, where the cruiser can clearly see the bole, and the taper remains constant (usually 6 or 8 inches). The log segments are broken out and graded accordingly.

MINIMUM D.B.H:

10” dbh for sawlog volume.

DIAMETER STANDARDS:

1” diameter class

BTR:

Standard ratios were used. See attached species tables.

FORM FACTOR:

Form factor was measured or estimated at 16’ for each tree. Each tree was assigned its own form factor.

FORM POINT:

All trees were sighted at D.B.H.

VOLUME COMPUTATION:

All cruise data was compiled using SuperACE.

FINAL CRUISE RESULTS:

STAND	CV%	SE%	Acres
Combined Units	48.7	8.1	454

Measurements and Grading:

- Ratio of a count plot for every measure plot.
- DBH and Height were measured on all “in” trees for measure plots.
- Pulp volume and sawlog volume cruised.
- See attached species and grade tables for minimum requirements.
- All trees were graded using the segment system.

TIMBER DESCRIPTION

SAWLOG VOLUME:

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

Unit 1

Species	Average DBH	Gross Volume per acre (bf/acre)	Net Volume per acre (bf/acre)	Gross Volume per unit (Mbf)	Net Volume per unit (Mbf)
Ponderosa pine	18.6	5,481	5,432	2,488	2,466
Sugar pine	24.8	971	966	441	439
White Fir	18.3	806	806	366	366
Combined	19.1	7,258	7,205	3,295	3,271

TOTAL SAWLOG VOLUME

Species	Average DBH	Gross Volume (Mbf)	Net Volume (Mbf)
Ponderosa pine	18.6	2,488	2,466
Sugar pine	24.8	441	439
White Fir	18.3	366	366
Combined	19.1	3,295	3,271

TOTAL NET SAWLOG VOLUME: 3,271 MBF

TC TSTATS

STATISTICS

PROJECT 3PEAT

DATE 7/27/2021

TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
032	007	28	SP	VARI	454.00	36	165	1	E

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	36	165	4.6		
CRUISE	17	75	4.4	14,217	.5
DBH COUNT					
REFOREST					
COUNT	19	90	4.7		
BLANKS					
100 %					

STAND SUMMARY

	SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
P PINE	58	26.2	18.6	51	11.5	49.5	5,481	5,432	1,179	1,179
SUG PINE	11	2.3	24.8	57	1.5	7.6	971	966	205	205
WHITE F	6	2.9	18.3	59	1.2	5.3	806	806	170	170
TOTAL	*75*	*31.3*	*19.1*	*53*	*14.3*	*62.4*	*7,258*	*7,205*	*1,554*	*1,554*

CONFIDENCE LIMITS OF THE SAMPLE

68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR

CL: 68.1 % COEFF — **SAMPLE TREES - BF** — # OF TREES REQ. — INF. POP.

SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
P PINE	86.4	11.3	258	291	324			
SUG PINE	93.9	29.7	494	703	911			
WHITE F	64.9	28.9	247	347	447			
TOTAL	*102.1*	*11.8*	*314*	*356*	*398*	*416*	*104*	*46*

CL: 68.1 % COEFF — **SAMPLE TREES - CF** — # OF TREES REQ. — INF. POP.

SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
P PINE	73.4	9.6	55	61	66			
SUG PINE	77.5	24.5	104	138	171			
WHITE F	53.6	23.9	54	70	87			
TOTAL	*85.9*	*9.9*	*65*	*73*	*80*	*295*	*74*	*33*

CL: 68.1 % COEFF — **TREES/ACRE** — # OF PLOTS REQ. — INF. POP.

SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
P PINE	72.2	12.0	23	26	29			
SUG PINE	146.3	24.4	2	2	3			
WHITE F	194.9	32.4	2	3	4			
TOTAL	*54.2*	*9.0*	*28*	*31*	*34*	*117*	*29*	*13*

CL: 68.1 % COEFF — **BASAL AREA/ACRE** — # OF PLOTS REQ. — INF. POP.

SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
P PINE	67.7	11.3	44	50	55			
SUG PINE	145.6	24.2	6	8	9			
WHITE F	206.4	34.4	3	5	7			
TOTAL	*48.8*	*8.1*	*57*	*62*	*67*	*95*	*24*	*11*

CL: 68.1 % COEFF — **NET BF/ACRE** — # OF PLOTS REQ. — INF. POP.

SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
P PINE	67.0	11.2	4,827	5,432	6,038			
SUG PINE	152.5	25.4	721	966	1,211			
WHITE F	219.8	36.6	511	806	1,102			
TOTAL	*48.7*	*8.1*	*6,621*	*7,205*	*7,789*	*95*	*24*	*11*

CL: 68.1 % COEFF — **NET CUFT FT/ACRE** — # OF PLOTS REQ. — INF. POP.

SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
P PINE	67.5	11.2	1,047	1,179	1,312			
SUG PINE	148.2	24.7	154	205	255			
WHITE F	213.1	35.5	110	170	231			

TC TSTATS

STATISTICS

PAGE 2

PROJECT 3PEAT

DATE 7/27/2021

TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
032	**007**	**28**	**SP**	**VARI**	454.00	36	165	1	E

CL: 68.1 %
SD: 1.0

	COEFF VAR.	S.E.%	NET CUFT FT/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
TOTAL	*48.2*	*8.0*	*1,429*	*1,554*	*1,679*	*93*	*23*	*10*

TC TLOGSTVB

Log Stock Table - MBF

Project: 3PEAT

T032 R007 S28 TVARI

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
032	007	28	SP	VARI	454.00	36	75

T032 R007 S28 TVARI

Page 1
Date 7/27/2021
Time 1:53:25PM

Spp	ST	So rt	Gr de	Log Len	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches 2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
PP		1	CR	17	207		207	8.4			40	103	19	18	27					
PP		1	CR	27	217		217	8.8			60	71	44			43				
PP		1	CR	34	2,064	1.1	2,042	82.8				309	527	578	204	272	152			
PP			Totals		2,488		2,466	75.4			100	483	590	597	231	315	152			
SP		1	CR	17	9		9	2.0				4			5					
SP		1	CR	27	16		16	3.6			7	9								
SP		1	CR	34	416	.5	414	94.4			24	10	63	28	16	99	96	78		
SP			Totals		441		439	13.4			31	23	63	28	21	99	96	78		
WF		1	CR	17	13		13	3.5			6	7								
WF		1	CR	27	30		30	8.2				30								
WF		1	CR	34	323		323	88.3				39	63	102		118				
WF			Totals		366		366	11.2			6	77	63	102		118				
Total All Species					3,295		3,271	100.0			136	582	716	726	252	532	248	78		

LOGGING PLAN
Of Timber Sale
KL-341-2022-W00674-01
3Peat
Section(s) 17, 20, 21, 28, 29 and 33
Of T32S, R7.5E,
Willamette Meridian,
Klamath County, Oregon
Gross Acres: 454
Net Acres: 454