



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal  
CSL  
Sale KL-341-2024-W01002-01

District: Klamath/Lake

Date: July 20, 2023

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**Cost Summary**

	<b>Conifer</b>	<b>Hardwood</b>	<b>Total</b>
<b>Gross Timber Sale Value</b>	\$97,785.82	\$0.00	\$97,785.82
		<b>Project Work:</b>	(\$40,025.91)
		<b>Advertised Value:</b>	\$57,759.91



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**Date: July 20, 2023**

**Timber Description**

**Location:**

**Stand Stocking: 20%**

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
White Fir	12	0	98
Lodgepole Pine	12	0	98

Volume by Grade	2S	3S & 4S 6"-11"	Camprun	Total
White Fir	227	353	0	580
Lodgepole Pine	0	0	506	506
<b>Total</b>	227	353	506	1,086

**Comments:** Pond Values Used: Local Pond Values, June 2023.

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 miles x \$230.00 per mile x 1 bladings = \$1,610.00

Total Road Maintenance: \$2,110.00 \$1.94 per Mbf



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### Logging Conditions

<b>Combination#:</b> 1	White Fir	100.00%
	Lodgepole Pine	100.00%
<b>Logging System:</b>	Wheel Skidder	<b>Process:</b> Feller Buncher
<b>yarding distance:</b>	Medium (800 ft)	<b>downhill yarding:</b> Yes
<b>tree size:</b>	Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF	
<b>loads / day:</b>	15	<b>bd. ft / load:</b> 4000
<b>cost / mbf:</b>	\$166.67	
<b>machines:</b>	Log Loader (B) Stroke Delimber (B) Feller Buncher w/ Delimber Tire Skidder	



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### Logging Costs

<b>Operating Seasons:</b> 1.00	<b>Profit Risk:</b> 10%
<b>Project Costs:</b> \$40,025.91	<b>Other Costs (P/R):</b> \$0.00
<b>Slash Disposal:</b> \$0.00	<b>Other Costs:</b> \$0.00

**Miles of Road**

**Road Maintenance:** \$1.94

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	4.0	4.0
Lodgepole Pine	\$0.00	4.0	3.8



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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
<b>White Fir</b>									
\$166.67	\$1.98	\$4.04	\$79.68	\$0.00	\$25.24	\$0.00	\$2.00	\$0.00	\$279.61
<b>Lodgepole Pine</b>									
\$166.67	\$1.98	\$4.04	\$83.88	\$0.00	\$25.66	\$0.00	\$2.00	\$0.00	\$284.23

Specie	Amortization	Pond Value	Stumpage	Amortized
White Fir	\$0.00	\$417.00	\$137.39	\$0.00
Lodgepole Pine	\$0.00	\$320.00	\$35.77	\$0.00



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### Summary

**Amortized**

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

**Unamortized**

Specie	MBF	Value	Total
White Fir	580	\$137.39	\$79,686.20
Lodgepole Pine	506	\$35.77	\$18,099.62

**Gross Timber Sale Value**

Recovery: \$97,785.82

Prepared By: Chris Weekly

Phone: 541-883-5681

# CSL

KL-341-2024-W01002-01

## *Additional Costs*

### *Road Maintenance*

Move-in cost (grader):	\$500.00
Number of Miles to be Bladed:	7.0
Number of Bladings:	1
Total Miles	7.0
Miles / Hour for equipment:	0.5
Cost / Hour (grader with operator):	\$115.00
Total Grading Hours:	14
Grading Cost:	\$1,610.00
	<u>\$2,110.00</u>
<b>Total Cost:</b>	\$2,110.00
Cost / Mbf:	\$1.94

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*Project Costs*

*Project #1 Dust Abatement*

LP	506 Mbf	46.6%	Average Load	3.8 Mbf	No. of Loads	133
WF	550 Mbf	50.6%	Average Load	4.0 Mbf	No. of Loads	138
RF	30 Mbf	2.8%	Average Load	4.0 Mbf	No. of Loads	8
<b>Total:</b>	<b>1086 Mbf</b>				<b>Total Loads</b>	<b>278</b>

Assume:	3 Trucks/Day	
	3 Trips/Day	31 Days of Dust Abatement
	<u>9 Loads per Day</u>	1.5 Hours/Day
	<b>31 Hauling Days</b>	\$88.00 Cost/Hour
		46 Total Hours
		\$200.00 Move in for Water Truck
		<u>\$4,279.65 Dust Abatement Cost</u>
		<b>\$4,279.65 Total Cost</b>
		<u>\$3.94 Cost/Mbf</u>

*Project #2 Road Improvement and Construction*

Move in Cost Dozer: \$500.00

**Improvement**

	Points	Distance (ft)	Feet/Hour	Hours	Cost/Hour	Cost
Open/Clear/Shape	A to B	1282	1000	1.3	\$132.50	\$169.87
Open/Clear/Shape	C to D	5520	1000	5.5	\$132.50	\$731.40
	<b>Total</b>	<b>6802</b>			<b>Total</b>	<b>\$901.27</b>

*Project #2 Summary*

Equipment Costs	\$500.00
Improvement Costs	<u>\$901.27</u>
<b>Project #1 Total</b>	<b><u>\$1,401.27</u></b>
per MBF	<u>\$1.29</u>



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KL-341-2024-W01002-01  
*Project Costs*

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*Project #3 Fell, Skid, and Pile Submerchantable Material*

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Total Sub-Sawlog Volume: 250 MBF

Fell and Skid/MBF: \$60.00

Sort/MBF: \$15.00

**Total** \$18,750.00

per MBF \$17.27

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*Landing Slash Piling*

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Number of Landings: 16

Shovel Time: 1 Hour per Landing      Cost per Hour: \$125.00      Total Cost \$2,000.00

Cat Time: 1 Hour per Landing      Cost per Hour: \$132.50      Total Cost \$2,120.00

**Total** \$4,120.00

per MBF \$3.79

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*Skid and Deck Down Material*

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Number of Landings: 6

Skidder time per landing: 10 Hours      Total Cost \$7,500.00

Shovel time per landing: 5 Hours      Total Cost \$3,975.00

**Total** \$11,475.00

per MBF \$10.57

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*Project #3 Summary*

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Fell, Skid, Deck Submerchantable Material \$18,750.00

Landing Slash Piling \$4,120.00

Skid and Deck Down Material \$11,475.00

**Project #1 Total** \$34,345.00

per MBF \$31.63

# CSL

KL-341-2024-W01002-01

## *Project Costs*

*Cost Summary All Projects*

Project No. 1 - Dust Abatement	\$4,279.65
Project No. 2 - Road Improvement	\$1,401.27
Project No. 3 - Fell, Skid, and Deck Submerch. Material	\$34,345.00
<b>Total Cost</b>	<b><u>\$40,025.92</u></b>
per Mbf	\$36.86

# CSL

## KL-341-2024-W01002-01

### Cruise Report



**SALE NAME:** CSL

**LEGAL DESCRIPTION:**

Section(s) 22, 23, 25, 26, 27 of T32S, R7.5E, Willamette Meridian, Klamath County, Oregon.

**ACREAGE:**

**AREA 1**

- Gross Acres – 253
- Excluded Acres – 42
- Net Acres – 211

**AREA 2**

- Gross Acres – 151
- Excluded Acres – 8
- Net Acres – 143

**COMBINED**

- Gross Acres – 404
- Excluded Acres – 50
- Net Acres – 354

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

**TREATMENT:**

Area 1 is a multiple prescription harvest. True firs, ponderosa pine and sugar pine are a cut tree marked single tree selection. Cut trees are marked with blue paint. Lodgepole pine is leave tree marked with all unmarked trees greater than 10 inched DBH are to be cut. Leave trees are marked with orange paint.

Area 2 is a purchaser selection harvest removing Lodgepole pine greater than 10 inches DBH with all other species to be reserved.

**CRUISE METHOD:**

Merchantable volume on the timber sale was sampled using a variable plot cruise. Area 1 had a ratio of one measure plot for every count plot and Area 2 had one measure plot for every two count plots

**BASAL AREA FACTOR:**

BAF	Type Acreage
10 BAF	354 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
70.7	10.1	354

**TIMBER DESCRIPTION**

**SAWLOG VOLUME:**

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

Species	Average DBH	Acres	Gross Volume per acre (bf/acre)	Net Volume per acre (bf/acre)	Gross Volume per area (Mbf)	Net Volume per area (Mbf)
Lodgepole pine	11.7	354	1,441	1,429	510	506
White fir	12.2	354	1,558	1,555	552	550
Red fir	10.2	354	89	86	32	30
Combined	11.8		3,088	3,070	1,093	1,087

**TOTAL NET SAWLOG VOLUME: 1,087 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	Acres	Volume per Acre (bf/ac)	Gross Volume (Mbf)
Variable	211	224	47
Fixed	211	963	203
<b>Total</b>		<b>1,174</b>	<b>250</b>

**TOTAL GREEN PULP VOLUME: 250 MBF**

TC PSTATS		<b>PROJECT STATISTICS</b>							PAGE	1	
		PROJECT		CSL			DATE		6/13/2023		
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt	
032	007	23	168	VARI		354.00	49	202	1	E	
032	007	26	195	VARI							
		PLOTS		TREES	PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES				
TOTAL		49	202	4.1							
CRUISE		20	93	4.7		19,238	.5				
DBH COUNT											
REFOREST											
COUNT		26	109	4.2							
BLANKS		3									
100 %											
<b>STAND SUMMARY</b>											
SAMPLE TREES		TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC	
LP PINE		38	27.9	11.7	35	6.1	20.7	1,528	1,516	401	
WHITE F		47	23.6	12.2	34	5.5	19.1	1,691	1,688	415	
SH FIR		7	2.4	10.2	27	0.4	1.4	89	86	23	
P PINE		1	.4	9.2	19	0.1	.2	4	4	2	
<b>TOTAL</b>		<b>93</b>	<b>54.3</b>	<b>11.8</b>	<b>34</b>	<b>12.0</b>	<b>41.4</b>	<b>3,313</b>	<b>3,294</b>	<b>842</b>	
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		
LP PINE		68.7	11.1	56	63	70					
WHITE F		88.9	13.0	90	103	117					
SH FIR		53.4	21.7	34	43	52					
P PINE											
<b>TOTAL</b>		<b>91.5</b>	<b>9.5</b>	<b>74</b>	<b>81</b>	<b>89</b>	<b>334</b>	<b>84</b>	<b>37</b>		
CL	68.1	COEFF	SAMPLE TREES - CF				# OF TREES REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
LP PINE		57.2	9.3	15	17	18					
WHITE F		75.0	10.9	22	24	27					
SH FIR		54.6	22.2	9	12	15					
P PINE											
<b>TOTAL</b>		<b>75.3</b>	<b>7.8</b>	<b>18</b>	<b>20</b>	<b>22</b>	<b>227</b>	<b>57</b>	<b>25</b>		
CL	68.1	COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
LP PINE		160.0	22.8	22	28	34					
WHITE F		110.4	15.8	20	24	27					
SH FIR		432.4	61.7	1	2	4					
P PINE		700.0	99.9	0	0	1					
<b>TOTAL</b>		<b>73.4</b>	<b>10.5</b>	<b>49</b>	<b>54</b>	<b>60</b>	<b>215</b>	<b>54</b>	<b>24</b>		
CL	68.1	COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
LP PINE		157.6	22.5	16	21	25					
WHITE F		114.1	16.3	16	19	22					
SH FIR		378.0	54.0	1	1	2					
P PINE		700.0	99.9	0	0	0					
<b>TOTAL</b>		<b>71.1</b>	<b>10.1</b>	<b>37</b>	<b>41</b>	<b>46</b>	<b>202</b>	<b>50</b>	<b>22</b>		
CL	68.1	COEFF	NET BF/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
LP PINE		163.3	23.3	1,163	1,516	1,869					
WHITE F		120.1	17.1	1,399	1,688	1,977					
SH FIR		387.2	55.3	38	86	133					
P PINE		700.0	99.9	0	4	9					
<b>TOTAL</b>		<b>70.7</b>	<b>10.1</b>	<b>2,962</b>	<b>3,294</b>	<b>3,626</b>	<b>200</b>	<b>50</b>	<b>22</b>		

**PROJECT STATISTICS**

PROJECT CSL

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
032	007	23	168	VARI	354.00	49	202	1	E
032	007	26	195	VARI					

  

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
LP PINE		160.8	23.0	309	401	493			
WHITE F		117.8	16.8	346	415	485			
SH FIR		376.0	53.7	11	23	36			
P PINE		700.0	99.9	0	2	3			
<b>TOTAL</b>		<i>70.2</i>	<i>10.0</i>	<i>757</i>	<i>842</i>	<i>926</i>	<i>197</i>	<i>49</i>	<i>22</i>

**Log Stock Table - MBF**

T032 R007 S23 TyVARI	143.00
T032 R007 S26 TyVARI	211.00

**Project: CSL**  
**Acres 354.00**

**Page 1**  
**Date 6/13/2023**  
**Time 6:16:53AM**

Spp	S T	So Gr rt 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
LP		CR	CR	17	119	3.6	115	21.4			53	51	12					
LP		CR	CR	27	67		67	12.6			46	21						
LP		CR	CR	34	308		308	57.5			184	81	21	22				
LP		CR	CR	35	15		15	2.8			15							
LP		CR	GP	13	3		3	.5		3								
LP		CR	GP	14	14		14	2.6			6	8						
LP		CR	GP	16	14		14	2.6			3		11					
LP		Totals			541		537	46.0		3	307	161	44	22				
WF		CR	CR	17	70		70	11.8			29	36	6					
WF		CR	CR	27	91		91	15.2			85	6						
WF		CR	CR	34	390		389	65.1			26	109	143	111				
WF		CR	GP	10	4		4	.6		4								
WF		CR	GP	11	3		3	.5		3								
WF		CR	GP	12	13		13	2.3			13							
WF		CR	GP	14	2		2	.3		2								
WF		CR	GP	16	8		8	1.4		2		6						
WF		CR	GP	18	13		13	2.2			7	7						
WF		CR	GP	19	4		4	.6		4								
WF		Totals			599		598	51.2		15	160	163	149	111				
RF		CR	CR	17	12	10.7	11	34.9			11							
RF		CR	CR	34	20		20	65.1			20							
RF		Totals			32	4.0	30	2.6			30							
PP		CR	GP	18	2		2	100.0		2								
PP		Totals			2		2	.1		2								
Total		All Species			1,173		1,166	100.0		2	17	497	324	193	133			