



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Flat - GNA
Sale KL-341-2020-GF8219-01

District: Klamath/Lake

Date: June 24, 2019

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$165,272.09	\$0.00	\$165,272.09
		Project Work:	(\$69,260.45)
		Advertised Value:	\$96,011.64



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Date: June 24, 2019

Timber Description

Location: Portions of sections 1, 2, 10, 11, 14, and 15 of Township 19 South, Range 32 East, W.M., Harney County, Oregon. Portions of sections 15, 22, 23, 26, 27, 34, and 35 of Township 18 South, Range 32 E, W.M., Grant County, Oregon

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	13	0	98
Grand Fir	15	0	95
Ponderosa Pine	15	0	95

Volume by Grade	Camprun	Total
Douglas - Fir	384	384
Grand Fir	99	99
Ponderosa Pine	1,757	1,757
Total	2,240	2,240

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

Log Markets: John Day.

Other Costs (no Profit & Risk): Road Surface Replacement Fee of \$4778.48 paid to USFS

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

ROAD MAINTENANCE

Move-in: \$400.00

General Road Maintenance: 16 miles x \$211.00 per mile x 1 bladings = \$3,376

Total Road Maintenance: \$3,776.00, \$1.69 per Mbf



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Logging Conditions

Combination#: 1 Douglas - Fir 100.00%
 Grand Fir 100.00%
 Ponderosa Pine 92.00%

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:** 3900
cost / mbf: \$97.35
machines: Log Loader (B)
 Stroke Delimber (B)
 Feller Buncher w/ Delimber
 Tire Skidder

Combination#: 2 Ponderosa Pine 8.00%

Logging System: Track Skidder **Process:** Feller Buncher
yarding distance: Medium (800 ft) **downhill yarding:** No
tree size: Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF
loads / day: 10 **bd. ft / load:** 3900
cost / mbf: \$104.85
machines: Log Loader (B)
 Stroke Delimber (B)
 Feller Buncher w/ Delimber
 Track Skidder



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Logging Costs

Operating Seasons: 1.00	Profit Risk: 10%
Project Costs: \$69,260.45	Other Costs (P/R): \$0.00
Slash Disposal: \$0.00	Other Costs: \$4,778.48

Miles of Road

Road Maintenance: \$1.69

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
Grand Fir	\$0.00	3.0	4.0
Ponderosa Pine	\$0.00	3.0	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
Douglas - Fir									
\$97.35	\$1.72	\$1.96	\$80.75	\$0.00	\$18.18	\$0.00	\$2.00	\$2.13	\$204.09
Grand Fir									
\$97.35	\$1.77	\$1.96	\$83.13	\$0.00	\$18.42	\$0.00	\$2.00	\$2.13	\$206.76
Ponderosa Pine									
\$97.95	\$1.77	\$1.96	\$87.50	\$0.00	\$18.92	\$0.00	\$2.00	\$2.13	\$212.23

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$340.00	\$135.91	\$0.00
Grand Fir	\$0.00	\$235.00	\$28.24	\$0.00
Ponderosa Pine	\$0.00	\$275.00	\$62.77	\$0.00



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Summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00
Grand Fir	0	\$0.00	\$0.00
Ponderosa Pine	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	384	\$135.91	\$52,189.44
Grand Fir	99	\$28.24	\$2,795.76
Ponderosa Pine	1,757	\$62.77	\$110,286.89

Gross Timber Sale Value

Recovery: \$165,272.09

Prepared By: Chris Weekly

Phone: 541-883-5681

Flat - GNA
KL-341-2020-GF8219-01

Other Costs

Road Maintenance

Move-in cost (grader):	\$400.00
Number of Miles to be Bladed:	16
Number of Bladings:	1
Total Miles:	16
Miles/Hour for Equipment:	0.5
Cost/Hour (grader with operator):	\$105.50
Total Grading Hours:	32
Grading Cost:	\$3,376.00
Total Cost:	\$3,776.00
Cost/Mbf:	\$1.69

Road Fees

Road Surface Replacement Fee	\$1.96 per Mbf
Cruised Volume	2438 Mbf
Road Fee	\$4,778.48

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Project Costs

Project #1 Dust Abatement (Profit & Risk to be added in Appraisal)

PP	1757 Mbf	78%	Average Load	3.8 Mbf	No. of Loads	462
DF	384 Mbf	17%	Average Load	4.0 Mbf	No. of Loads	96
GF	99 Mbf	4%	Average Load	4.0 Mbf	No. of Loads	25
Total:	2240 Mbf				Total Loads	583

Assume:	4 Trucks/Day	49 Days of Dust Abatement
	3 Trips/Day	3 Hours/Day
	12 Loads per Day	\$88.00 Cost/Hour
	49 Hauling Days	146 Total Hours
		\$200.00 Move in for Water Truck
		\$12,828.60 Dust Abatement Cost
		\$13,028.60 Total Cost
		\$5.82 Cost/Mbf

Flat - GNA

KL-341-2020-GF8219-01

Project Costs

Project #2 Road Improvement and Construction

Improvement

Move in Cost Dozer: \$500

	Points	Distance(ft)	Feet/Hour	Hours	Cost/Hour	Cost
Open/Clear/Shape	A to B	2096	1000	2.10	\$132.50	\$277.72
Open/Clear/Shape	F to H	2889	1000	2.89	\$132.50	\$382.79
Open/Clear/Shape	G to I	881	1000	0.88	\$132.50	\$116.73
Open/Clear/Shape	J to K	4628	1000	4.63	\$132.50	\$613.21
Open/Clear/Shape	L to M	6917	1000	6.92	\$132.50	\$916.50
Open/Clear/Shape	N to O	2278	1000	2.28	\$132.50	\$301.84
Open/Clear/Shape	W to X	2106	1000	2.11	\$132.50	\$279.05
Open/Clear/Shape	Y to Z	662	1000	0.66	\$132.50	\$87.72
Open/Clear/Shape	AA to BB	2000	1000	2.00	\$132.50	\$265.00
Open/Clear/Shape	CC to DD	2831	1000	2.83	\$132.50	\$375.11
Open/Clear/Shape	FF to GG	4388	1000	4.39	\$132.50	\$581.41
Open/Clear/Shape	JJ to LL	9494	1000	9.49	\$132.50	\$1,257.96
Open/Clear/Shape	KK to MM	128	1000	0.13	\$132.50	\$16.96
Open/Clear/Shape	UU to VV	2190	1000	2.19	\$132.50	\$290.18
Open/Clear/Shape	XX to YY	2227	1000	2.23	\$132.50	\$295.08
Open/Clear/Shape	AAA to BBB	1533	1000	1.53	\$132.50	<u>\$203.12</u>
Total Open/Clear /Shape						\$6,260.36

Move in Cost Excavator: \$500

		Hours	Cost/Hour	Cost
Plucking brush and piling down trees	Excavator	16	\$100.00	\$1,600.00
Rock Hauling	Dump Truck	16	\$100.00	\$1,600.00

Remove culvert install reinforced stream crossing at Point HH

	Hours	Cost/Hour	Cost
Excavator	2	\$100.00	\$200.00
Dozer	1	\$132.50	<u>\$132.50</u>
Total Culvert Removal			\$332.50

Flat - GNA

KL-341-2020-GF8219-01

Project Costs

Project #2 Road Improvement and Construction

Construction

	Points	Distance(ft)	Feet/Hour	Hours	Cost/Hour	Cost
Construct Spur	B to C	3036	750	4.05	\$132.50	\$536.36
Construct Spur	C to D	774	750	1.03	\$132.50	\$136.74
Construct Spur	C to E	2115	750	2.82	\$132.50	\$373.65
Construct Spur	P to Q	1853	750	2.47	\$132.50	\$327.36
Construct Spur	S to T	1466	750	1.95	\$132.50	\$258.99
Construct Spur	U to V	488	750	0.65	\$132.50	\$86.21
Construct Spur	NN to OO	2505	750	3.34	\$132.50	\$442.55
Construct Spur	PP to RR	967	750	1.29	\$132.50	\$170.84
Construct Spur	SS to QQ	662	750	0.88	\$132.50	\$116.95
Construct Spur	TT to UU	1546	750	2.06	\$132.50	\$273.13
Construct Landing	R			0.5	\$132.50	\$66.25
Construct Landing	EE			0.5	\$132.50	\$66.25
Construct Landing	II			0.5	\$132.50	\$66.25
Construct Landing	WW			0.5	\$132.50	\$66.25
Construct Landing	ZZ			0.5	\$132.50	\$66.25
Construct Landing	ZZ			0.5	\$132.50	\$66.25
Total Construction						\$3,120.29

Project #2 Summary

Move In Costs	\$1,000.00
Improvement Cost	\$9,792.86
Construction Cost	\$3,120.29
Project # 2 Total	\$13,913.15
per Mbf	\$6.21

Flat - GNA
KL-341-2020-GF8219-01

Project Costs

Project #3 Fell, Skid, and Pile Submerchantable Material

Total Sub-Sawlog Volume: 100 MBF

Fell and Skid/MBF: \$50.00

Sort/MBF: \$10.00

Total \$6,000.00

per MBF \$2.68

Landing Slash Piling

Number of Landings: 59

Shovel Time: 1 Hour per Landing Cost per Hour: \$125.00 Total Cost \$7,375.00

Cat Time: 1 Hour per Landing Cost per Hour: \$132.50 Total Cost \$7,817.50

Total \$15,192.50

per MBF \$6.78

Project #3 Summary

Fell, Skid, Pile Submerchantable Material \$6,000.00

Landing Slash Piling \$15,192.50

Total Cost \$ 21,192.50

per Mbf \$9.46

Flat - GNA
KL-341-2020-GF8219-01

Project Costs

Project #4 Road Closures and Waterbarring

Road Closures

10	Number of Closure Points - Point B, P, S, PP, KK, TT, UU, WW, CCC, DDD
<u>\$132.50</u>	Cost per Hour (Cat)
<u>\$1,325.00</u>	Total
\$0.32	per Mbf

Skid Trail Waterbarring

30	Number of Landings
2	Hours per Landing
<u>\$132.50</u>	Cost per Hour (Cat)
<u>\$7,950.00</u>	Total
\$1.94	per Mbf

Project #4 Summary

Road Closure:	\$1,325.00
Waterbarring:	<u>\$7,950.00</u>
Total:	<u>\$9,275.00</u>
per Mbf:	\$4.14

Project #5 Fungicide Treatment

State to Provide Chemical Supplies

Acres to be treated:	823
Cutting Days (assume 5 acres per day):	164.6
Hours per Day:	3
Cost per Hour:	<u>\$24.00</u>
Total Cost:	<u>\$11,851.20</u>
Cost per Mbf:	\$5.29

Flat - GNA
KL-341-2020-GF8219-01

Project Costs

Cost Summary All Projects

Project No.1 - Dust Abatement	\$13,028.60
Project No.2 - Road Improvement and Construction	\$13,913.15
Project No.3 - Fell, Skid, and Pile Submerchantable Material	\$21,192.50
Project No.4 - Road Closures and Waterbarring	\$ 9,275.00
Project No. 5 - Fungicide Treatment	\$11,851.20
Total Cost	\$69,260.45
per Mbf	\$30.92

Summary of Project Work

FLAT - GNA
KL-341-2020-GF8219-01



Project No. 1: Dust Abatement	\$13,028.60
Project No. 2: Road Improvement and Construction	\$13,913.15
Project No. 3: Fell, Skid, and Pile Submerch. Material	\$21,192.50
Project No. 4: Road Closures and Waterbarring	\$ 9,275.00
Project No. 5: Fungicide Treatment	\$11,851.20

Total: \$69,260.45

Flat GNA
KL-341-2020-GF8219-01
Cruise Report



"STEWARDSHIP IN FORESTRY"

SALE NAME: Flat

LEGAL DESCRIPTION:

Portions of sections 1, 2, 10, 11, 14, and 15 of Township 19 South, Range 32 East, W.M., Harney County, Oregon.

Portions of sections 15, 22, 23, 26, 27, 34, and 35 of Township 18 South, Range 32 E, W.M., Grant County, Oregon

BOUNDARY LINES:

Unit boundaries are posted with "Timber Sale Boundary" signs, marked with fluorescent orange paint and fluorescent orange flagging.

ACREAGE:

Gross Sale Acreage: 823 Acres

Mapping was accomplished using a handheld Global Positioning System unit with the data run on the district Geographical Information System Program.

TREATMENT:

The Timber Sale is a purchaser select, partial cut harvest.

CRUISE METHOD:

Variable plot cruise with a ratio of a count plot for every measure plot. Fixed plot cruise for all sub-merchantable material (7.0" to 11.0") DBH for all Areas.

BASAL AREA FACTOR:

All stands were cruised using a BAF of 10.

PLOT DESIGNATION:

Plot centers were established at every plot with blue flag wire stakes with the corresponding plot number. Blue and white flagging was attached to the nearest available tree branch.

SAMPLE SIZE CALCULATIONS:

CV%	DESIRED SE%	ACRES
100%	13%	823

$$\text{Number of Plots} = \frac{T^2 C^2}{A^2}$$

C = Coefficient of Variation in Percent (Taken from inventory data)

T = Number of Standard Errors

A = Desired Sampling Error for a sale of this size and value

Area 1

$$N = \frac{(1)^2(100)^2}{(13)^2} = 59 \text{ plots}$$

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.
- Separate fixed plot cruise for all submerchantable material (5” to 10” DBH).

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:

11.0” DBH for sawlog volume. 7.0” DBH for submerchantable material.

DIAMETER STANDARDS:

1” diameter class

BTR:

Standard ratios were used.

FORM FACTOR:

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

FORM POINT:

All trees were sighted at DBH.

VOLUME COMPUTATION:

All cruise data was input and run at the district on Atterbury's Super Ace program.

FINAL CRUISE RESULTS:

A total of 58 plots were cruised in 8 of the 21 harvest areas focusing on the largest units. Cruised acres account for 752 of the 823 total acres.

AREA	CV%	SE%	ACRES
Combined	103	11	823

TIMBER DESCRIPTION**SAWLOG VOLUME:**

This volume was obtained from the variable plot cruise. All material graded camprun.

TOTAL SAWLOG VOLUME

Species	Ave. DBH	Gross Vol/Acre (bf)	Net Vol/Acre (bf)	Net Sale Vol (Mbf)
Ponderosa pine	14.8	2,185	2,135	1,757
Douglas-fir	13.1	474	466	384
Grand fir	14.5	120	120	99
	Total	2,779	2,721	2,240

TOTAL NET SAWLOG VOLUME: 2,240 MBF

GREEN PULP VOLUME:

This volume was obtained by combining material from the fixed plot cruise (7.0" – 11.0" DBH) with material from the variable plot cruise. The fixed plot cruise only recorded volume in a single stand with a total acreage of 178.

All material was graded green pulp, see grade table for minimum standards.

FIXED PLOT CRUISE

Species	Vol/Acre (bf)	Sale Vol (Mbf)
Douglas-fir	56	10
Grand fir	111	20
Total	167	30

VARIABLE PLOT CRUISE

Species	Vol/Acre (bf)	Sale Vol (Mbf)
Ponderosa pine	174	143
Douglas-fir	30	25
Total	204	168

TOTAL GREEN PULP VOLUME: 198 Mbf

TC PSTATS						PROJECT STATISTICS				PAGE	1	
						PROJECT	FLAT	DATE				6/25/2019
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt		
018	032	10	23	VARI	THR	752.00	58	246	1	E		
019	032	14	201	ORIG								
				TREES		ESTIMATED	PERCENT					
				PER PLOT		TOTAL	SAMPLE					
PLOTS				TREES	TREES		TREES					
TOTAL			58	246	4.2							
CRUISE			29	125	4.3		28,838		.4			
DBH COUNT												
REFOREST												
COUNT			25	110	4.4							
BLANKS			4									
100 %												
STAND SUMMARY												
SAMPLE			TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET	
TREES			/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC	
P PINE			104	29.0	14.8	35	9.0	34.5	2,359	2,309	607	
DOUG-FIR			19	7.1	13.1	38	1.8	6.6	503	495	125	
GF			2	2.3	10.9	28	0.5	1.5	120	120	26	
TOTAL			125	38.3	14.3	35	11.3	42.6	2,982	2,925	758	
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			67.8	6.6	89	95	101					
DOUG-FIR			67.9	16.0	84	101	117					
GF			115.7	108.3		110	229					
TOTAL			67.9	6.1	90	96	102		184	46	20	
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			54.4	5.3	23	24	25					
DOUG-FIR			65.4	15.4	22	26	30					
GF			110.0	103.0		23	46					
TOTAL			56.6	5.1	23	24	25		128	32	14	
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			104.6	13.7	25	29	33					
DOUG-FIR			335.6	44.0	4	7	10					
GF			447.4	58.7	1	2	4					
TOTAL			106.1	13.9	33	38	44		450	112	50	
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			113.3	14.9	29	35	40					
DOUG-FIR			324.7	42.6	4	7	9					
GF			431.9	56.7	1	2	2					
TOTAL			103.6	13.6	37	43	48		429	107	48	
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			133.0	17.4	1,906	2,309	2,712					
DOUG-FIR			328.3	43.1	282	495	709					
GF			437.0	57.3	51	120	189					
TOTAL			114.0	15.0	2,487	2,925	3,362		519	130	58	
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			123.4	16.2	509	607	705					
DOUG-FIR			324.7	42.6	72	125	178					

TC		PLOGSTVB		Log Stock Table - MBF															
T018 R032 S10 TyVARI THRU T019 R032 S14 TyORIG				Project: FLAT												Page 1			
				Acres 752.00												Date 6/25/2019			
																Time 11:48:19AM			
S T	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	CR	CR	16	208	1.9	204	11.8			36	50	24	78	16					
PP	CR	CR	18	61		61	3.5			8	11	25	17						
PP	CR	CR	20	87		86	4.9				2	21	42	20					
PP	CR	CR	24	80		80	4.6			22	58								
PP	CR	CR	26	46		46	2.7			21	25								
PP	CR	CR	28	121	1.6	119	6.9			19	38	28	33						
PP	CR	CR	30	6		6	.3				6								
PP	CR	CR	32	1,035	2.9	1,004	57.8			164	525	212	70	33					
PP	CR	GP	10	2		2	.1		2										
PP	CR	GP	11	5		5	.3			4	1								
PP	CR	GP	12	20		20	1.1			5	15								
PP	CR	GP	13	3		3	.2	1			2								
PP	CR	GP	14	21		21	1.2	1	12	5	3								
PP	CR	GP	15	18		18	1.1	2		5			11						
PP	CR	GP	16	44		44	2.5	7	1		30	5							
PP	CR	GP	17	7		7	.4				7								
PP	CR	GP	19	8		8	.5	2	6										
PP	CR	GP	21	3		3	.2	3											
PP	Totals			1,774	2.1	1,736	79.0	17	21	289	773	315	240	81					
DF	CR	CR	16	1		1	.2			1									
DF	CR	CR	17	45		45	12.0			28	17								
DF	CR	CR	26	16		16	4.4			16									
DF	CR	CR	32	6		6	1.5						6						
DF	CR	CR	34	289	2.1	283	76.0			45	131	107							
DF	CR	GP	12	7		7	2.0		7										
DF	CR	GP	13	15		15	4.0			15									
DF	Totals			379	1.6	373	16.9		7	104	148	107	6						
GF	CR	CR	17	38		38	41.9			38									
GF	CR	CR	34	52		52	58.1					52							
GF	Totals			90		90	4.1			38		52							
Total	All Species			2,243	1.9	2,199	100.0	17	29	431	921	475	246	81					

TC PSTATS				<u>PROJECT STATISTICS</u>					PAGE	2
				PROJECT		FLAT			DATE	6/25/2019
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt
018	032	10	23	VARI	THR	752.00	58	246	1	E
019	032	14	201	ORIG						
CL	68.1		COEFF	NET CUFT FT/ACRE				# OF PLOTS REQ.		INF. POP.
SD:	1.00		VAR.	S.E.%	LOW	AVG	HIGH	5	10	15
GF			434.6	57.0	11	26	41			
TOTAL			<i>109.9</i>	<i>14.4</i>	<i>649</i>	<i>758</i>	<i>867</i>	<i>482</i>	<i>120</i>	<i>54</i>









