



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Fast Track
Sale 341-13-69

District: Klamath/Lake

Date: November 06, 2012

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$119,219.19	\$0.00	\$119,219.19
		Project Work:	\$(26,371.18)
		Advertised Value:	\$92,848.01



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timber description

Location: Portions of Section 32, T33S, R14E, and portions of Section 5, T34S, R14E, W.M., Klamath County, Oregon.

Stand Stocking: 60%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
White Fir	15	0	95
Sugar Pine	23	0	95
Ponderosa Pine	15	0	95
Lodgepole Pine	13	0	95

Volume by Grade	Camprur	CR 14" -	CR 22"+	CR 6" - 8	CR 8" - 1	Total
White Fir	0	82	48	92	157	379
Sugar Pine	0	3	20	3	10	36
Ponderosa Pine	0	214	36	231	290	771
Lodgepole Pine	30	0	0	0	0	30
Total	30	299	104	326	457	1,216



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comments: Pond Values Used: 3rd Quarter Calander Year 2012.

Log Markets: Klamath Falls and Medford.

SCALING COST ALLOWANCE: = \$5.00/MBF

FUEL COST ALLOWANCE: = \$4.00/Gallon

HAULING COST ALLOWANCE

Hauling costs equivalent to \$780 daily truck cost.

Other Costs (with Profit & Risk to be added):

Log Branding & Painting: \$1,296.26

TOTAL Other Costs (with Profit & Risk to be added): \$1,296.26

Other Costs (No Profit & Risk added):

None.

ROAD MAINTENANCE

USFS Road Use Permit Fees = \$6 per MBF

Cruised Sale Volume = 1,214 MBF

TOTAL MAINTENANCE: \$7,284 / 1,214 MBF = 6.00/MBF



"STEWARDSHIP IN FORESTRY"

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logging conditions

combination#: 1

White Fir	40.00%
Sugar Pine	35.00%
Ponderosa Pine	40.00%
Lodgepole Pine	100.00%

yarding distance: Long (1,500 ft) **downhill yarding:** Yes
logging system: Wheel Skidder **Process:** Feller Buncher
tree size: Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF
loads / day: 12.0 **bd. ft / load:** 4,000
cost / mbf: \$69.18

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

combination#: 2

White Fir	60.00%
Sugar Pine	65.00%
Ponderosa Pine	60.00%

yarding distance: Long (1,500 ft) **downhill yarding:** Yes
logging system: Track Skidder **Process:** Manual Felling/Delimbing
tree size: Mature / Partial Cut (900 Bft/tree), 3-5 logs/MBF
loads / day: 10.0 **bd. ft / load:** 4,500
cost / mbf: \$75.69

machines: Log Loader (B)
Track Skidder



"STEWARDSHIP IN FORESTRY"

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District: Klamath/Lake

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logging costs

Operating Seasons:	1.00	Profit Risk:	12.00%
Project Costs:	\$26,371.18	Other Costs (P/R):	\$1,296.26
Slash Disposal:	\$0.00	Other Costs:	\$0.00

Miles of Road

Road Maintenance: \$6.00

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	2.0	4.5
Sugar Pine	\$0.00	2.0	4.1
Ponderosa Pine	\$0.00	2.0	4.1
Lodgepole Pine	\$0.00	2.0	4.0



"STEWARDSHIP IN FORESTRY"

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Fast Track
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Local Pond Values

Date	Specie	Grade	Value
10/10/12	White Fir	CR 6" - 8"	\$305.00
10/10/12	White Fir	CR 8" - 14"	\$315.00
10/10/12	White Fir	CR 14" - 22"	\$325.00
10/10/12	White Fir	CR 22"+	\$330.00
10/10/12	Sugar Pine	CR 6" - 8"	\$260.00
10/10/12	Sugar Pine	CR 8" - 14"	\$275.00
10/10/12	Sugar Pine	CR 14" - 22"	\$310.00
10/10/12	Sugar Pine	CR 22"+	\$360.00
10/10/12	Ponderosa Pine	CR 6" - 8"	\$225.00
10/10/12	Ponderosa Pine	CR 8" - 14"	\$280.00
10/10/12	Ponderosa Pine	CR 14" - 22"	\$330.00
10/10/12	Ponderosa Pine	CR 22"+	\$380.00
10/10/12	Lodgepole Pine	Camprun	\$290.00



"STEWARDSHIP IN FORESTRY"

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Fast Track
Sale 341-13-69

District: Klamath/Lake

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logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
White Fir									
\$73.09	\$6.30	\$3.61	\$81.25	\$1.07	\$19.84	\$0.00	\$5.00	\$0.00	\$190.16
Sugar Pine									
\$73.41	\$6.30	\$3.61	\$89.18	\$1.07	\$20.83	\$0.00	\$5.00	\$0.00	\$199.40
Ponderosa Pine									
\$73.09	\$6.30	\$3.61	\$89.18	\$1.07	\$20.79	\$0.00	\$5.00	\$0.00	\$199.04
Lodgepole Pine									
\$69.18	\$6.30	\$3.61	\$91.40	\$1.07	\$20.59	\$0.00	\$5.00	\$0.00	\$197.15

Specie	Amortization	Pond Value	Stumpage	Amortized
White Fir	\$0.00	\$316.64	\$126.48	\$0.00
Sugar Pine	\$0.00	\$323.89	\$124.49	\$0.00
Ponderosa Pine	\$0.00	\$282.07	\$83.03	\$0.00
Lodgepole Pine	\$0.00	\$290.00	\$92.85	\$0.00



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Fast Track
Sale 341-13-69

District: Klamath/Lake

Date: November 06, 2012

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
Lodgepole Pine	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
White Fir	379	\$126.48	\$47,935.92
Sugar Pine	36	\$124.49	\$4,481.64
Ponderosa Pine	771	\$83.03	\$64,016.13
Lodgepole Pine	30	\$92.85	\$2,785.50

Gross Timber Sale Value

Recovery: \$119,219.19

Prepared by: Chris Weekly

Phone: 541-883-5681

Fast Track

341-13-069

Other Costs

Road Use Fee

Purchaser of the Fast Track Timber Sale will be required to obtain a road use permit from the USDA Forest Service in order to haul on approximately 4.14 miles of Forest Road 30 and 0.7 miles of the 3000-015 road. The road use permit fees for the haul is \$6.00 per Mbf.

Any exchange of project work in lieu of road use fees will need to be negotiated between the purchaser and the USDA Forest Service.

Estimated Fee Totals

USFS Road Use Permit Fees: \$6.00 per Mbf
Cruised Sale Volume: 1,214 Mbf
Total Cost: \$7,284.00

Brand & Paint (Profit and Risk to be added in Appraisal)

PP	771	64%	Average Load	4.1 MBF	No. of Loads	188
WF	379	31%	Average Load	4.5 MBF	No. of Loads	84
SP	35	3%	Average Load	4.1 MBF	No. of Loads	9
LP	29	2%	Average Load	4.0 MBF	No. of Loads	7
	<u>1214</u>				Total Loads	288

36 Hauling Days

1.5 Hours/Day

\$24.00 Cost/Hour

\$1,296.26 Total Cost

\$1.07 Cost/Mbf

Assume:

4 Trucks/Day

2 Trips/Day

8 Loads per Day

Fast Track

341-13-00

Project Costs

Project #1 Road Construction

Move in Cost Dozer: \$400.00

Move in Cost Grader: \$400.00

Construction

	Points	Distance (ft)	Feet/Hour	Hours	Cost/Hour	Cost
Open/Clear/Shape	A to B	2420	1000	2.4	\$132.50	\$320.65
Open/Clear/Shape	A to C	2221	1000	2.2	\$132.50	\$294.28
	Total	4641			Total	\$614.93

Project #1 Summary

Move in: \$800.00

Open/Clear Shape: \$614.93

Project #1 Total: \$1,414.93

per Mbf: \$1.17

Project #2 Slash Hazard Reduction

Move in Cost Masticator: \$400.00

Treatment Acres: 30

Cost per Acre: \$300.00

Total: \$9,000.00

Project #2 Summary

Move in: \$400.00

Mastication: \$9,000.00

Project #2 Total: \$9,400.00

per Mbf: \$7.74

Fat Cat
341-12-57
Project Costs

Project #3 Felling, Skidding, and Piling of Submerchantable Trees

Total Sub-Sawlog Volume: 208 MBF

Fell and Skid/MBF:	\$50.00
Sort/MBF:	\$10.00
Total	\$12,480.00
per MBF	\$10.28

Landing Slash Piling

Number of Landings: 5

Shovel Time:	1 Hour per Landing	Cost per Hour:	\$125.00	Total Cost	\$625.00
Cat Time:	1 Hour per Landing	Cost per Hour:	\$132.50	Total Cost	\$662.50

Total	\$1,287.50
per MBF	\$1.06

Project #3 Summary

Fell/Pile/Skid:	\$12,480.00
Landing Cleanup:	\$1,287.50
Total:	\$13,767.50
per Mbf:	\$11.34

Fat Cat
341-12-54
Project Costs

Project #4 Road Closure and Waterbarring

Road Closures

1	Number of Closure Points - Point A
\$132.50	Cost per Hour (Cat)
\$132.50	Total
\$0.11	per Mbf

Skid Trail Waterbarring

5	Number of Landings
2.5	Hours per Landing
\$132.50	Cost per Hour (Cat)
\$1,656.25	Total
\$1.36	per Mbf

Project #4 Summary

Road Closure:	\$132.50
Waterbarring:	\$1,656.25
Total:	\$1,788.75
per Mbf:	\$1.47

Cost Summary All Projects

\$1,414.93	Project #1 Road Construction
\$9,400.00	Project #2 Slash Hazard Reduction
\$13,767.50	Project #3 Fell, Skid, and Pile Submerchantable Trees
\$1,788.75	Project #4 Road Closure and Waterbarring
\$26,371.18	Total
\$21.72	per MBF

Fast Track

341-13-69
Cruise Report



"STEWARDSHIP IN FORESTRY"

SALE NAME: Fast Track

LEGAL DESCRIPTION:

T33S, R14E, Portions of Section 32; T34S, R14E, Portions of Section 5, W.M., Klamath County, Oregon.

BOUNDARY LINES:

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

FUND:

100% BOF

ACREAGE:

The timber sale is 160 acres and was cruised as a single tract. See attached map for the boundary of the cruise type.

Net Sale Acreage: 160 Acres.

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

TREATMENT:

The entire sale area is a single tree selection cut with leave trees marked with orange paint for trees 4.0 inches DBH and larger. All trees less than 4.0 inches DBH are reserved from cutting in the sale area.

CRUISE METHOD:

Merchantable volume was sampled using a variable plot cruise with all plots being measure plots. Fixed plot cruise for all submerchantable material (4.0" to 9.0" DBH).

BASAL AREA FACTOR:

Area	BAF	Type Acreage
Fast Track	14 BAF	160 acres

FIXED PLOT:

Area	Radius	Type Acreage
Fast Track	16.6	160 acres

PLOT DESIGNATION:

Plot centers were established at every plot with blue and white candystripe flagging. Candystripe blue and white flagging was attached to the nearest available tree branch listing the plot number and date of cruise.

SAMPLE SIZE CALCULATIONS:

AREA	CV%	DESIRED SE%	ACRES
Fast Track	65	13	160

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

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

Fast Track $N = \frac{(1)^2(65)^2}{(12)^2} = 25 \text{ plots}$ Took 25 plots

Measurements and Grading:

- DBH and Height were measured on all “in” trees for measure plots.
- All plots were measured in the timber sale.
- 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 (4" to 9" 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:

9.0" DBH for sawlog volume. 4.0" DBH for submerchantable material.

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 FF.

FORM POINT:

All trees were sighted at DBH.

VOLUME COMPUTATION:

All cruise data was input and run at the district on SuperACE 08.

CRUISERS: Ed Scheick, Chris Weekly, Todd Clement, and John Fitch.

FINAL CRUISE RESULTS:

AREA	CV%	SE%	ACRES
Fast Track	62.4	12.7	160

TIMBER DESCRIPTION

SAWLOG VOLUME:

This volume was obtained from the variable plot cruise. All material graded camprun. See grade table for minimum standards.

Fast Track

SPECIES	AVE DBH	GROSS VOL (MBF)	NET VOL (MBF)
Ponderosa Pine	15.3	785	771
White Fir	16.9	394	379
Sugar Pine	23.4	36	35
Lodgepole Pine	12.9	31	29

TOTAL NET SAWLOG VOLUME: 1,214 MBF

GREEN PULP VOLUME:

This volume was obtained from the fixed plot cruise (4.0" – 9.0" DBH).
All material was graded green pulp, see grade table for minimum standards.

SPECIES	F.PLOT VOLUME
Ponderosa Pine	81
White Fir	38
Lodgepole Pine	89

TOTAL GREEN PULP VOLUME: 208 MBF

TC TSTATS				STATISTICS				PAGE 1			
				PROJECT FTRACK				DATE 9/12/2012			
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt		
34S	14E	05	1	0001	160.00	25	130	1	E		
				TREES	ESTIMATED	PERCENT					
				PER PLOT	TOTAL	SAMPLE					
					TREES	TREES					
TOTAL				25	130	5.2					
CRUISE				24	130	5.4	9,438	1.4			
DBH COUNT											
REFOREST											
COUNT											
BLANKS				1							
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
PPINE		88	38.6	15.3	42	12.6	49.3	4,904	4,816	1,039	1,039
WHITE F		35	16.9	14.6	41	5.1	19.6	2,460	2,371	484	484
LP PINE		5	3.1	12.9	35	0.8	2.8	192	181	60	60
SUG PINE		2	.4	23.4	77	0.2	1.1	225	222	38	38
TOTAL		130	59.0	15.0	42	18.8	72.8	7,781	7,590	1,622	1,622
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:		VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15	
PPINE		155.9	16.6	231	277	323					
WHITE F		161.0	27.2	258	355	451					
LP PINE		39.5	19.7	53	66	79					
SUG PINE		126.1	118.2		2,120	4,626					
TOTAL		178.1	15.6	269	318	368	1,269	317	141		
CL:	68.1 %	COEFF		SAMPLE TREES - CF				# OF TREES REQ.		INF. POP.	
SD:		VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15	
PPINE		124.4	13.3	46	53	60					
WHITE F		133.5	22.6	48	62	76					
LP PINE		42.1	20.9	18	22	27					
SUG PINE		119.6	112.1		317	672					
TOTAL		142.9	12.5	51	59	66	817	204	91		
CL:	68.1 %	COEFF		TREES/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:		VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15	
PPINE		79.7	16.3	32	39	45					
WHITE F		121.9	24.9	13	17	21					
LP PINE		280.5	57.2	1	3	5					
SUG PINE		452.7	92.4	0	0	1					
TOTAL		57.2	11.7	52	59	66	136	34	15		
CL:	68.1 %	COEFF		BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:		VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15	
PPINE		75.2	15.4	42	49	57					
WHITE F		128.8	26.3	14	20	25					
LP PINE		288.7	58.9	1	3	4					
SUG PINE		346.1	70.6	0	1	2					
TOTAL		48.4	9.9	66	73	80	98	24	11		
CL:	68.1 %	COEFF		NET BF/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:		VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15	
PPINE		92.5	18.9	3,907	4,816	5,725					
WHITE F		151.4	30.9	1,638	2,371	3,104					
LP PINE		290.4	59.3	74	181	289					
SUG PINE		362.3	73.9	58	222	386					
TOTAL		62.4	12.7	6,624	7,590	8,557	162	41	18		

TC TSTATS				STATISTICS				PAGE	2
				PROJECT	FTRACK		DATE	9/12/2012	
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
34S	14E	05	1	0001	160.00	25	130	1	E
13									
CL:	%	COEFF	NET CUFT FT/ACRE				# OF PLOTS REQ.		INF. POP.
SD:		VAR.	S.E.%	LOW	AVG	HIGH	5	10	15
CL:	68.1 %	COEFF	NET CUFT FT/ACRE				# OF PLOTS REQ.		INF. POP.
SD:		VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
PPINE		84.7	17.3	860	1,039	1,219			
WHITE F		139.2	28.4	347	484	622			
LP PINE		285.6	58.3	25	60	95			
SUG PINE		348.6	71.2	11	38	64			
		11.0		1,444	1,622	1,800	120	30	

TC TLOGSTVB				Log Stock Table - MBF Project: FTRACK																		
T34S R14E S05 T0001										T34S R14E S05 T0001												
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	1													
34S	14E	05	1	0001	160.00	25	130	Date	9/12/2012													
										Time	1:49:39PM											
S Spp	So T	Gr rt	Log de Len	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches														
								2-3	4-5	6-8	9-10	11-12	13-14	15-16	17-19	20-21	22-29	30-39	40+			
PP	CR	CR	16	2		2	.3					2										
PP	CR	CR	17	73	5.9	68	8.9			61	4	4										
PP	CR	CR	20	9		9	1.2							3	6							
PP	CR	CR	24	9		9	1.2								9							
PP	CR	CR	26	47		47	6.0			23	7	7			9							
PP	CR	CR	27	41	1.8	41	5.3			30	10											
PP	CR	CR	28	7		7	.9					7										
PP	CR	CR	32	340	1.8	334	43.3				4	30	75	87	79	24	21			15		
PP	CR	CR	34	177	1.3	175	22.7			57	70	48										
PP	CR	CR	35	79	.9	79	10.2			60	18											
PP	Totals			785	1.8	771	63.4			231	113	98	78	111	79	24	21			15		
WF	CR	CR	17	47		47	12.4			25	10	2			4				6			
WF	CR	CR	26	17		17	4.5			17												
WF	CR	CR	27	7		7	1.9			7												
WF	CR	CR	34	289	4.1	277	72.9			35	26	47	62	14	41	11	41					
WF	CR	CR	35	33	6.6	31	8.2			7			11		13							
WF	Totals			394	3.6	379	31.2			92	36	48	73	14	57	11	48					
LP	CR	CR	17	4		4	15.1			4												
LP	CR	CR	26	5		5	15.5				5											
LP	CR	CR	34	22	7.9	20	69.3			20												
LP	Totals			31	5.6	29	2.4			25	5											
SP	CR	CR	27	3		3	7.6			3												
SP	CR	CR	32	24	2.4	23	64.8								3				8	12		
SP	CR	CR	35	10		10	27.5					10										
SP	Totals			36	1.6	35	2.9			3		10			3				8	12		
Total All Species				1,245	2.5	1,214				350	154	156	151	125	139	35	76			27		

Species Table Report

TblSpecies

Date: 09/12/2012

Page: 1

Table Name: SUNPASS

Code	Abrv	Description	Bark Ratio	ASub Const	Form Factor	Wood Type	Comp- onent	Yield Table	Min Log Dia	Min Log Len	Max Log Len	Log Trim	Max Tree Dia	Max Tree Hgt.	BdFt Rule	CuFt Rule	Weight
1	PP	PPINE	.87	PP	.85	P	C	PP--EQUA--100	3	9	20	1.0	99	200	E	1	4800
2	WF	WHITE F	.94	NF	.87	W	C	DF--EQUA--050	3	9	20	1.0	99	200	E	1	5000
3	LP	LP PINE	.96	DF	.9	P	C	LP--EQUA--100	3	9	20	1.0	99	200	E	1	4800
4	DF	DOUG-FIR	.92	DF	.87	D	C	DF--EQUA--050	3	9	20	1.0	99	200	E	1	5700
5	SP	SUG PINE	.87	PP	.84	P	C	PP--EQUA--100	3	9	20	1.0	99	200	E	1	4800
6	IC	INC CED	.90	SS	.80	C	C	DF--EQUA--050	3	9	20	1.0	99	200	E	1	4500
7	RF	SH FIR	.924	DF	.89	W	C	DF--EQUA--050	3	9	20	1.0	99	200	E	1	5000

TblSortGrade

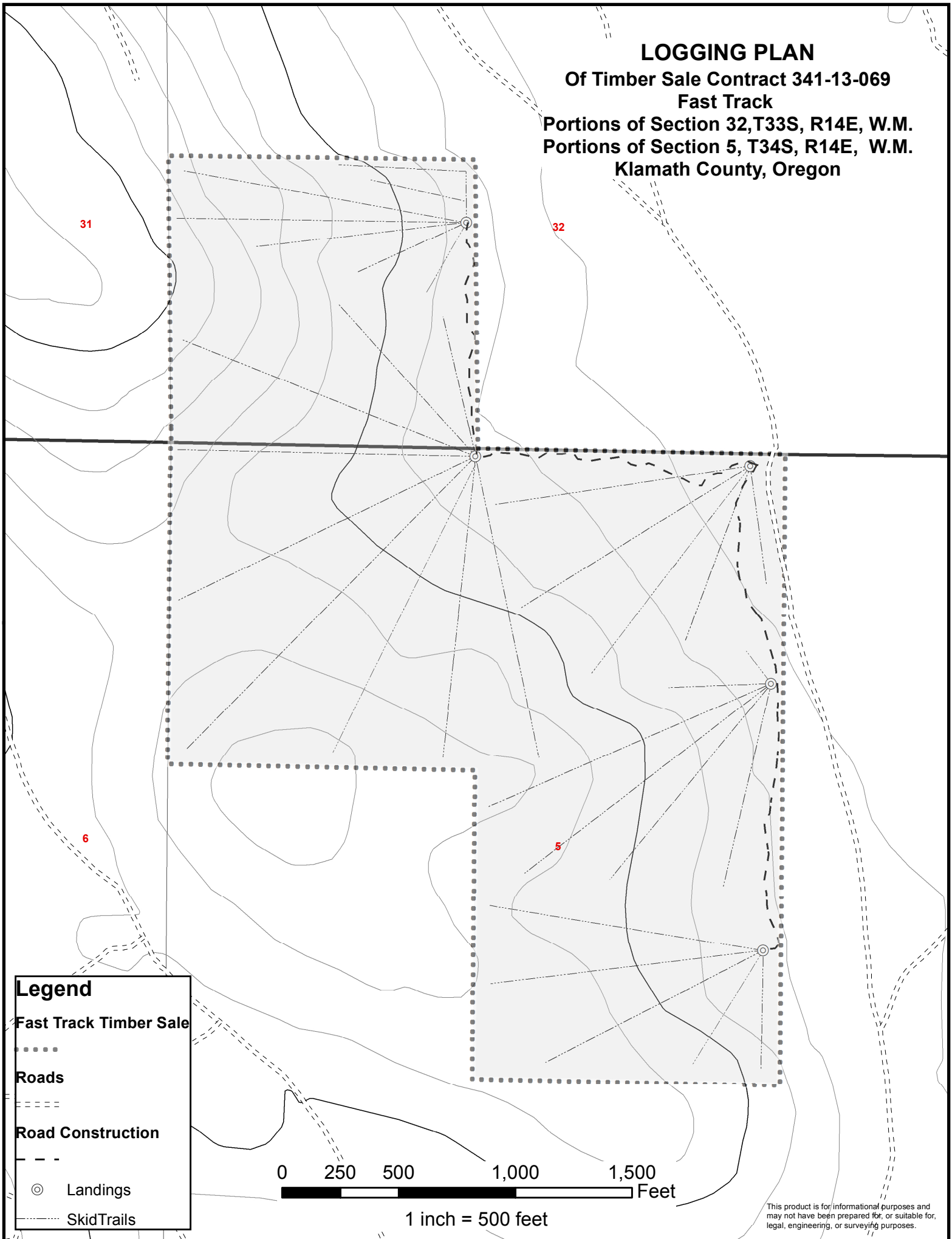
Sort/Grade Table

Table Name: SUNPASS

Date: 09/12/2012

Sort	Grd	Abr	Desc	Fbr	Min Dia	Max Dia	Max Butt	Min Len	Max Len	Defect	Min Vol	Vol Type	Min Rings	Knot Size	Knot Freq	Str	Sap	Min Age	Lbs	Lbs Type	Cords	Cords Type
	0	CU	CULL	G	1	0	0	1	99	0	0	M	0	0	0			0	0		0	
	1	CR	CAMPRU	G	6	0	0	10	99	0	0	M	0	0	0			0	0		0	
	7	GP	GRNPULP	G	3	0	0	10	99	0	0	M	0	0	0			0	0		0	
	8	DP	DEADPUL	G	3	0	0	10	99	0	0	M	0	0	0			0	0		0	
	9	UT	UTILITY	G	8	0	0	12	99	0	0	M	0	0	0			0	0		0	
0		CU	CULL	G	1	0	0	1	99	0	0	M	0	0	0			0	0		0	
1		CR	CAMPRU	G	1	0	0	1	99	0	0	M	0	0	0			0	0		0	

LOGGING PLAN
Of Timber Sale Contract 341-13-069
Fast Track
Portions of Section 32,T33S, R14E, W.M.
Portions of Section 5, T34S, R14E, W.M.
Klamath County, Oregon



Legend

Fast Track Timber Sale

.....

Roads

Road Construction

⊙ Landings

..... Skid Trails

0 250 500 1,000 1,500 Feet

1 inch = 500 feet

This product is for informational purposes and may not have been prepared for, or suitable for, legal, engineering, or surveying purposes.