"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Cost Summary
Hole In One
Sale 341-04-50

District: Klamath/Lake **Date:** 10/9/03

	Conifer	Hardwood	Total
Gross Timber Sale Value	$1,119,001.95	$0.00	$1,119,001.95
		Project Work	($53,373.79)
		Advertised Value	$1,065,628.16

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Timber Description
Hole In One
Sale 341-04-50

District: Klamath/Lake

Location: Portions of Sections 25 and 36, T32S, R7.5E, and Portions of Section 1, T33S, R7.5E, W.M., Klamath County, OR.

Date: 10/9/03 **Stand Stocking:** 20%

Species	Avg. DBH	Amortized%	Recovery%
White Fir	16	0	97
Sugar Pine	18	0	97
Ponderosa Pine	13	0	97
Lodgepole Pine	11	0	95

Volume by Grade	White Fir	Sugar Pine	Ponderosa Pine	Lodgepole Pine	Total
CR 8" - 14"	2,587	60	336	345	3,328
CR 14" - 22"	1,955	17	153	0	2,125
CR 22"+	287	12	0	0	299
CR 6" - 8"	920	0	20	422	1,362
Total	5,749	89	509	767	7,114

Comments: Pond Values Used: 3rd Quarter 2003

Other Costs (plus Profit and Risk) Include:
Dust Abatement: $20,306.48
Brand and Paint: $15,600

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Logging Conditions
Hole In One
Sale 341-04-50

Combination#: 1

	White Fir	80.00%
	Sugar Pine	68.00%
	Ponderosa Pine	89.00%
	Lodgepole Pine	100.00%

Yarding Distance: Short (400 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 **Bd. Ft./Load:** 3,500
Cost/MBF: $79.86
Machines:

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

Combination#: 2

	White Fir	20.00%
	Sugar Pine	32.00%
	Ponderosa Pine	11.00%

Yarding Distance: Short (400 ft) **Downhill Yarding:** Yes
Logging System: Track Skidder **Process:** Manual Falling/Delimbing
Tree Size: Mature / Partial Cut (900 Bft/tree), 3-5 logs/MBF
Loads/Day: 13 **Bd. Ft./Load:** 4,200
Cost/MBF: $59.81
Machines:

Log Loader (B)
Track Skidder

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Logging Costs
Hole In One
Sale 341-04-50

Date: 10/9/03

Operating Seasons: 2.0 **Profit & Risk:** 12%

Project Costs: $53,374 **Other Costs (P/R):** $0

Slash Disposal: $0 **Other Costs:** $0

Road Maintenance: $0.14

Miles of Road			
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	4.0
Sugar Pine	$0.00	3.0	3.5
Ponderosa Pine	$0.00	3.0	3.5
Lodgepole Pine	$0.00	2.0	3.0

Local Pond Values

Date	Species	Grade	Value
10/9/03	White Fir	CR 8" - 14"	$320.00
10/9/03	White Fir	CR 14" - 22"	$330.00
10/9/03	White Fir	CR 22"+	$335.00
10/9/03	White Fir	CR 6" - 8"	$300.00
10/9/03	Sugar Pine	CR 8" - 14"	$320.00
10/9/03	Sugar Pine	CR 14" - 22"	$450.00
10/9/03	Sugar Pine	CR 22"+	$500.00
10/9/03	Ponderosa Pine	CR 8" - 14"	$295.00
10/9/03	Ponderosa Pine	CR 14" - 22"	$395.00
10/9/03	Ponderosa Pine	CR 22"+	$525.00
10/9/03	Ponderosa Pine	CR 6" - 8"	$235.00
10/9/03	Lodgepole Pine	Camprun	$270.00

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Logging Costs Breakdown
Hole In One
Sale 341-04-50

Costs	White Fir	Sugar Pine	Ponderosa Pine	Lodgepole Pine
Logging	75.85	73.44	77.65	79.86
Road Maintenance	0.14	0.14	0.14	0.15
Fire Protection	0.76	0.76	0.76	0.76
Hauling	59.28	45.15	45.15	80.84
Other (P/R appl.)	0.00	0.00	0.00	0.00
Profit & Risk	16.32	14.34	14.84	19.39
Slash Disposal	0.00	0.00	0.00	0.00
Scaling	2.00	2.00	2.00	2.00
Other	0.00	0.00	0.00	0.00
Total	154.35	135.83	140.54	183.00

Amortization	0.00	0.00	0.00	0.00
Pond Value	320.95	369.10	322.70	245.24
Stumpage	166.60	233.27	182.16	62.24
Amortized	0.00	0.00	0.00	0.00

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Summary
Hole In One
Sale 341-04-50

Amortized

	White Fir	Sugar Pine	Ponderosa Pine	Lodgepole Pine
MBF	0.00	0.00	0.00	0.00
Value	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00

Unamortized

	White Fir	Sugar Pine	Ponderosa Pine	Lodgepole Pine
MBF	5,749.00	89.00	509.00	767.00
Value	166.60	233.27	182.16	62.24
Total	957,783.40	20,761.03	92,719.44	47,738.08

Gross Timber Sale Value

Recovery $1,119,001.95

Prepared by: Jason Pettigrew Date: 10/9/03

District: Klamath/Lake Phone: (541) 883-5681

Summary of Project Work

"STEWARDSHIP IN FORESTRY"

Project # 1: Road Improvement ..... $ 6,012.63

New Construction
Road Reconstruction

Project # 2: Felling, yarding, and piling of
submerchantable trees and pulp wood ..... $ 32,024.18

Project # 3: Tractor Piling of Slash ..... $ 2,122.20

Project # 4: Road Closures ..... $ 1,331.20

Project # 5: Sporax Stump Treatment ..... $ 11,883.58

Total: $ 53,373.79

Hole in One

341-04-50

Additional Costs Sheet

"STEWARDSHIP IN FORESTRY"

Road Maintenance

Move-in cost (grader):	$	241.00
Number of Bladings		1
Number of Miles to be Bladed		5.3
Miles / Hour for equipment		0.5
Cost / Hour:	$	73.25
Total Grading Hours:		10.6
Grading Cost:	$	776.45
Total Cost:	$	1,017.45
Cost / MBF	$	0.14

Dust Abatement (Profit & Risk Included)

PP & SP	598,554	BF	8%	Average Load	3500	BF	171	# of Loads
WF	5,748,537	BF	81%	Average Load	4000	BF	1437	# of Loads
LP	767,237	BF	11%	Average Load	3000	BF	256	# of Loads
Total:	7,114,328	BF					Total Loads	1864

Assume:	6	Trucks/Day
	2	Trips / Day
	12	Loads Per Day

Assume June15 thru October 15 at 22 hauling days / month for a summer haul period.

	156	Hauling Days
	88	Possible # of Summer Haul
	4	Hours / Day
$	57.24	Cost / Hour
	352	Total Hours
$	158.00	Move-In for Water Truck
$	20,148.48	Dust Abatement Cost
$	20,306.48	**Total Cost**
$	2.85	**Cost / MBF**

Knot Bumper / Branding (Profit and Risk Included)

	156	Hauling Days
	10	Hours / Day
$	10.00	Cost / Hour
$	15,600.00	**Total Cost**
$	2.19	**Cost / MBF**

Project #2 Fell, Skid, & Pile Submerchantable Material

611.25	Total Subsawlog Volume MBF		126,966	PP Green Pulp (BF)
			76,179	LP Green Pulp (BF)
$ 38.55	Fell & Skid / MBF		31,439	WF Green Pulp
$ 6.45	Sort / MBF		234,584	BF Green Pulp
$ 45.00	Total / MBF		376,666	BF Subsawlog Fixed Plot
$ 27,506.2	**Total Cost**		**611,250**	**Total Board Feet**

Landing Cleanup (included with Project # 2)

31	Number of Landings					
	Shovel Time:	1	Hours / Landing	$ 75.00	Cost / Hour	$ 2,325.00
	Cat Time:	1	Hours / Landing	$ 70.74	Cost / Hour	$ 2,192.94
					Total Cost:	**$ 4,517.94**

Project # 3 Tractor Piling of Slash

0.05	Percentage of Acres to be Piled
604.6	Total Acres
30.0	Total Acres to be Piled (rounded #)
1	Hours / Acre
$ 70.74	Cost / Hour - Cat
$ 2,122.20	**Total Cost**

Project #4 Road Closures

Road Blocking

7	Number of Closure Points (A,B,C,D,E,F, & G)
1	Hours / Point (include travel)
$ -	Cost / Hour (Shovel)
$ 70.74	Cost / Hour (Cat)
7	Total Road Blocking Hours
$ 495.18	**Total Cost**

Waterbars

31,200.00	Feet of roads to be waterbarred
5.9	Miles of road to be waterbarred
0.5	Miles / Hour for equipment while closing
$ 70.74	Cost / Hour
11.82	Total Road Closure Hours
$ 836.02	**Total Cost**

Project #5 Sporax Stump Treatment		
413		Acres to be Treated (Type 2 and 3)
20,650		Estimated # of Stumps 12" and Greater (~ 50 WF TPA)
$	1.45	Price / Pound (25 lb. Bags)
30		Trees treated per pound (60 12" Stumps treated per pound)
688		Total Pounds Necessary for Treatment
$	5.00	Stump Dye Price / Box (Clothing Dye)
	27.5	Number of Bags of Sporax
	55	Number of Boxes Dye Needed
$	1,273.42	**Cost for Chemical Supplies**
106		Cutting Days
10		Hours / Day
$	10.00	Cost / Hour
$	10,610.17	**Cost for Manual Application**
$	11,883.58	**Total Cost for Sporax Treatment**
$	1.67	**Cost / MBF**

Cost Summary					
$	6,012.63	**Project # 1 ~ Road Construction and Improvement**	$	1,017.45	**Road Maintenance**
$	32,024.18	**Project # 2 ~ Fell, Skid, & Pile Submerchantable Material**	$	20,306.48	**Dust Abatement**
$	2,122.20	**Project # 3 ~ Tractor Piling of Slash**	$	15,600.00	**Knot Bumping & Branding**
$	1,331.20	**Project #4 ~ Road Closures (Blocking and Waterbarring)**			
$	11,883.58	**Project #5 ~ Sporax Annosus Stump Treatment**			
$	**53,373.79**	**Total Cost**	**$**	**36,923.93**	**Total Cost**

3 Road Shaping & Surfacing ~ Project 1

Rock Surfacing ~ Delivered

1 1/2 -	**Rock Size**
0.10	**Length (Miles)**
550	**Length (feet)**
14	**Width (feet)**
4	**Depth (inches)**
2,566.7	**Cubic Feet**
95.1	**Cubic Yards**
$ 16.88	**Cost / Yard**
1.3	**Expansion Factor**
123.6	**Cubic Yards (Loose)**
1.35	**Tons/Cubic Yard**
166.83	**Tons**
7.0	**No. of Belly Dump Loads**
$ 12.50	**Price / Ton**
$ 2,085.42	**Total Price**

Rock Spreading (Grader)

Number of Bladings	3
Number of Miles to be Bladed	0.10
Miles / Hour for equipment	0.25
Cost / Hour:	$ 73.25
Total Grading Hours:	1.25
Grading Cost:	**$ 91.56**

Construct / Improve Lead Off Ditch (Grader)

No. of Ditches	1
Hours / Ditch	0.5
Total Hours	0.5
Cost / Hour	$ 73.25
Total	**$ 36.63**

Pull Ditches / Shape Road

Feet / Hour	500
Total Feet	550
Total Hours	1.10
Cost / Hour	$ 73.25
Total	**$ 80.58**

Water Truck to work with Grader

Number of Hours	1.10
Cost / Hour	$ 57.24
Total	**$ 62.96**

Road Shaping & Surfacing Cost Summary

Rock Surfacing	$	2,085.42
Rock Spreading	$	91.56
Ditch Construction	$	36.63
Pull Ditches	$	80.58
Water Truck	$	62.96
Total Cost	**$**	**2,357.14**

Hole in One

341-04-50

Project # 1 (Continued) Road Improvement Summary

Move-in cost Cat $ 370.00

"STEWARDSHIP IN FORESTRY"

New Construction

	Points	Distance (feet)	Feet / Hour	Hours	Cost / Hour (Cat)	Cost
Outslope	L to M	200	100	2	70.74	$ 141.48
	Total	**200.00**		**2**		**$ 141.48**

Grade and Shape (outslope)

Grader

Total Feet	200	**Water Truck**	Hours	2.0
Feet / Hour	200		Cost / Hour	$ 57.24
Cost / Hour	$ 73.25		**Total Cost**	**$ 114.48**
Total Hours	1.0			
Total Cost	**$ 73.25**			

Grader

Road Improvement

	Points	Distance (feet)	Feet / Hour	Hours	Cost / Hour	Cost
Shape to Drain	J to K	6,020	2000	3.0	$ 73.25	$ 220.48
Shape to Drain	H to I	6,990	2000	3.5	$ 73.25	$ 256.01
Shape to Drain	E to N	7,700	1500	5.1	$ 73.25	$ 376.02
Shape to Drain	F to N	7,400	1500	4.9	$ 73.25	$ 361.37
Shape to Drain	G to N	11,500	1500	7.7	$ 73.25	$ 561.58
Shape to Drain	C to P	2,500	500	5.0	$ 73.25	$ 366.25
Shape to Drain	M to B	700	700	1.0	$ 73.25	$ 73.25
Shape to Drain	D to O	2,100	500	4.2	$ 73.25	$ 307.65
		44,910.00		**34.4**		**$ 2,522.61**

Total: $ 3,221.82

Roadside Brushing

Points	Distance (feet)	Feet / Hour	Hours	Cost / Hour	Cost
H to I	6990	300	23.3	$ 10.00	$ 233.00
J to K	6020	300	20.1	$ 10.00	$ 200.67
	13,010		**43.4**		**$ 433.67**

Manual Brushing

Hole in One

Cruise Report

"STEWARDSHIP IN FORESTRY"

SALE NAME: Hole in One

LEGAL DESCRIPTION: T 32S , R 7.5E , Portions of Sections 25 and 36 and T 33S , R 7.5 E , Portions of Section 1

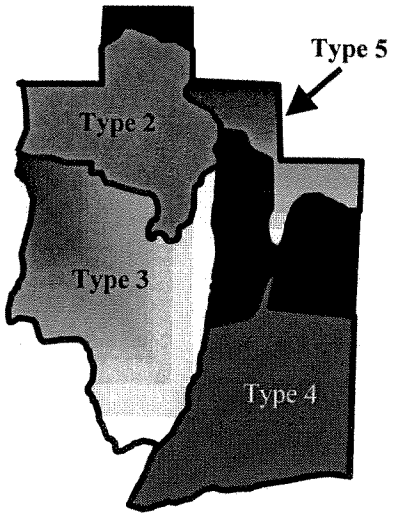
BOUNDARY LINES:

Unit boundaries are posted with "Timber Sale Boundary" signs, marked with fluorescent orange paint and fluorescent orange flagging. Area II is posted with "Area II Boundary" signs, marked with fluorescent orange paint, and fluorescent orange flagging between Areas I and II. Harvest exclusions (3) are posted with "Timber Sale Boundary" signs, marked with fluorescent orange paint and fluorescent orange flagging. Required new road construction is posted with orange "Right of Way Boundary" signs and marked with blue paint on cut trees.

FUND: 100% B.O.F.

ACREAGE: The timber sale was further delineated beyond harvest areas to timber type boundaries for the timber cruise.

	Acres
Area I:	
Type 3	231.0
Type 4	180.0
Type 5	54.6
	465.6
Area II:	
Type 2	139.0
Approximate Sale Acreage:	**604.6 acres**



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

TREATMENT:

Area I is a selection cut, leave tree marked with orange paint.
Area II is also a selection cut, with cut trees marked in blue paint.
Wildlife trees are designated with an orange "W".

BASAL AREA FACTOR:

Type	BAF	Type Acreage
Type 2	20 BAF	139.0 acres
Type 3	20 BAF	231.0 acres
Type 4	14 BAF	180.0 acres
Type 5	14 BAF	54.6 acres

Full point plots taken, 1/50th acre fixed plots for submerchantable material (5.0" to 8.0" DBH)

PLOT DESIGNATION:

Plot centers were established at every plot. White flagging with the corresponding plot number was attached to the plot center and also to the nearest available tree branch.

SAMPLE SIZE CALCULATIONS:

Area I	CV %	Desired SE %	Acres
Type 3	57	12	231.0
Type 4	67	12	180.0
Type 5	38	12	54.6
Area II	**CV %**	**Desired SE %**	**Acres**
Type 2	64	12	139.0

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

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

Type 2 Number of Plots: $\frac{(1)^2(64)^2}{12^2}$ = 28 Plots

Type 3 Number of Plots: $\frac{(1)^2(57)^2}{12^2}$ = 22 Plots

Type 4 Number of Plots: $\frac{(1)^2(67)^2}{12^2}$ = 31 Plots

Type 5 Number of Plots: $\frac{(1)^2(38)^2}{12^2}$ = 10 Plots

Measurements and Grading:

- DBH and Height were measured on all "in" trees in the plot.
- All plots were 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 8")

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.:

8.0" D.B.H. for sawlog volume. (Must have a minimum of 20 board feet.)
5.0" D.B.H. for pulp 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 FF.

FORM POINT:

All trees were sighted at D.B.H.

VOLUME COMPUTATION:

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

CRUISERS: Ed Scheick, John Pellissier, & Jason Pettigrew

FINAL CRUISE RESULTS:

Area I	CV %	SE %	Acres
Type 3	85.8	18.3	231.0
Type 4	59.0	10.6	180.0
Type 5	62.5	19.8	54.6
Area II	**CV %**	**SE %**	**Acres**
Type 2	84.5	17.7	139.0
Total Sale Area	**CV%**	**SE%**	**Acres**
All Types	91.5	9.6	604.6

TIMBER DESCRIPTION

	Species	Average DBH	Net Volume (MBF)
Areas I & II Fixed Plot	White Fir	16.1	5749
	Sugar Pine	18.4	89
	Ponderosa Pine	12.5	509
	Lodgepole Pine	11.1	767
			7,114
		Total MBF	7,114

(Volumes taken from Species, Sort Grade –Board Foot Volumes Report)

GREEN PULP VOLUME

This volume was obtained from the variable plot cruise (>8" DBH) and the fixed plot cruise (5.0"-8.0"). All material graded green pulp. See grade table for minimum standards. The summary for green pulp listed below includes all types for the timber sale.

	Species	Green Pulp Volume (MBF)
Areas I & II Variable	White Fir	31
	Ponderosa Pine	127
	Lodgepole Pine	76
		Total: 234 MBF

(Volumes taken from Species, Sort Grade –Board Foot Volumes Report)

	Species	Green Pulp Volume (MBF)
Areas I & II Fixed	White Fir	192
	Ponderosa Pine	54
	Lodgepole Pine	125
	Sugar Pine	5
		Total: 376 MBF

Total Green Pulp Volume: 610 MBF

TC PSTATS

PROJECT STATISTICS

PROJECT HOLE

DATE 7/25/2003

TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES
32	7	36	NEW TYPE 5	5	THRU 2-5	604.60	91	531
32	7	36	VARIABLE	4				

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	91	531	5.8		
CRUISE	89	531	6.0	57,783	.9
DBH COUNT					
REFOREST COUNT					
BLANKS	2				
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
WHITE F	317	48.2	16.1	46	12	67.8	9,793	9,560	2,037	2,037
LP PINE	133	26.9	11.1	32		17.9	1,419	1,395	362	362
P PINE	76	19.6	12.5	28		16.6	1,072	1,053	256	256
SUG PINE	5	.8	18.4	42		1.6	153	147	34	34
TOTAL	*531*	*95.6*	*14.1*	*38*		*103.9*	*12,436*	*12,156*	*2,689*	*2,689*

SAMPLE TREES - BF

SD: 1	COEFF VAR.	S.E.%	LOW	AVG	HIGH	# OF TREES REQ. 5	10	INF. POP. 15
WHITE F	159.2	6.9	207	222	238			
LP PINE	258.0	11.2	16	18	20			
P PINE	477.5	20.7	14	18	22			
SUG PINE	1392.6	60.4	2	4	6			
TOTAL	*131.7*	*5.7*	*247*	*262*	*277*	*694*	*173*	*77*

SAMPLE TREES - CF

SD: 1	COEFF VAR.	S.E.%	LOW	AVG	HIGH	# OF TREES REQ. 5	10	INF. POP. 15
WHITE F	140.8	6.1	41	44	47			
LP PINE	230.2	10.0	4	4	5			
P PINE	414.6	18.0	3	4	5			
SUG PINE	1351.0	58.6	0	1	1			
TOTAL	*110.7*	*4.8*	*51*	*53*	*56*	*490*	*122*	*54*

TREES/ACRE

SD: 1	COEFF VAR.	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
WHITE F	127.0	13.3	42	48	54			
LP PINE	152.9	16.0	22	27	32			
P PINE	204.1	21.4	16	20	23			
SUG PINE	679.8	71.3	0	1	1			
TOTAL	*74.4*	*7.8*	*88*	*96*	*103*	*221*	*55*	*25*

BASAL AREA/ACRE

SD: 1	COEFF VAR.	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
WHITE F	112.6	11.8	60	68	75			
LP PINE	147.8	15.5	15	18	21			
P PINE	156.3	16.4	14	17	19			
SUG PINE	497.5	52.2	1	2	2			
TOTAL	*69.6*	*7.3*	*97*	*104*	*111*	*194*	*48*	*22*

NET BF/ACRE

SD: 1	COEFF VAR.	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
WHITE F	123.0	12.9	8,417	9,560	10,703			
LP PINE	162.2	17.0	1,114	1,395	1,677			
P PINE	157.9	16.6	909	1,053	1,197			
SUG PINE	475.4	49.8	91	147	203			
TOTAL	*91.5*	*9.6*	*11,053*	*12,156*	*13,259*	*335*	*84*	*37*

NET CUFT FT/ACRE

SD: 1	COEFF VAR.	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
WHITE F	119.3	12.5	1,801	2,037	2,273			
LP PINE	155.9	16.3	292	362	432			
P PINE	152.9	16.0	222	256	290			
SUG PINE	471.3	49.4	22	34	46			
TOTAL	*84.6*	*8.9*	*2,463*	*2,689*	*2,915*	*286*	*72*	*32*

TC PLOGSTVB

Log Stock Table - MBF

T32 R7 S36 Ty5
THRU
T32 R7 S36 Ty4

Project: HOLE
Acres 604.60

Date 8/12/2003
Time 11:14:31AM

Spp	ST	Sort	Grade	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+
LP		CR	CR	10	1		1	.1			1									
LP		CR	CR	12	16		16	1.9			7	9								
LP		CR	CR	13	61		61	7.3			29	11	17	4						
LP		CR	CR	14	8		8	.9				4	4							
LP		CR	CR	16	6		6	.8			3	3								
LP		CR	CR	17	89		89	10.5			58	16	14							
LP		CR	CR	22	9		9	1.1			9									
LP		CR	CR	23	62		62	7.3			57	5								
LP		CR	CR	27	119	1.4	118	13.9			66	28	16	8						
LP		CR	CR	32	21		21	2.5			9	13								
LP		CR	CR	34	253	3.4	245	29.0			100	52	27	56	10					
LP		CR	CR	37	18	6.6	16	1.9			6			11						
LP		CR	CR	40	120	2.4	117	13.8			82	22	13							
LP		CR	GP	13	2		2	.3	2											
LP		CR	GP	14	4		4	.5		4										
LP		CR	GP	15	7		7	.8	3		4									
LP		CR	GP	16	24		24	2.9	1	19		5								
LP		CR	GP	17	18		18	2.1			5	13								
LP		CR	GP	18	5		5	.6		2	3									
LP		CR	GP	25	7		7	.8	3	4										
LP		CR	GP	30	3		3	.4	3											
LP		CR	GP	36	5		5	.6	5											
LP		Totals			858	1.7	844	11.5	18	29	437	180	91	79	10					
PP		CR	CR	12	24		24	3.8				8	3	6	7					
PP		CR	CR	13	19		19	2.9				19								
PP		CR	CR	14	1		1	.2				1								
PP		CR	CR	15	4		4	.7					4							
PP		CR	CR	16	48	2.3	47	7.4				26	4	8	9					
PP		CR	CR	18	15		15	2.3				1			13					
PP		CR	CR	20	18		18	2.9				11					7			
PP		CR	CR	22	23		23	3.6				3	19							
PP		CR	CR	23	4		4	.6				4								
PP		CR	CR	24	20		20	3.1				6	8			6				
PP		CR	CR	26	28		28	4.4				3	4		21					
PP		CR	CR	28	21		21	3.2				4			17					
PP		CR	CR	30	11		11	1.8				11								
PP		CR	CR	32	239	3.3	231	36.3			20	30	24	36	30	78	11			

TC PLOGSTVB

Log Stock Table - MBF

T32 R7 S36 Ty5
THRU
T32 R7 S36 Ty4

Project: HOLE
Acres 604.60

Date 8/12/2003
Time 11:14:31AM

Spp	ST	Sort	Grade	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	33	8		8	1.2					8							
PP		CR	CR	34	6		6	1.0				6								
PP		CR	CR	40	32	6.9	29	4.6					29							
PP		CR	GP	10	6		6	.9		6										
PP		CR	GP	11	7		7	1.1			5	2								
PP		CR	GP	12	19		19	3.0			19									
PP		CR	GP	14	3		3	.5			3									
PP		CR	GP	15	15		15	2.3		15										
PP		CR	GP	16	28		28	4.4	10		18									
PP		CR	GP	17	6		6	.9	6											
PP		CR	GP	18	26		26	4.1		12	14									
PP		CR	GP	20	11		11	1.8	11											
PP		CR	GP	22	5		5	.8	5											
PP		Totals			648	1.7	637	8.7	32	32	81	137	104	51	97	84	18			
WF		CR	CR	10	4		4	.1								4				
WF		CR	CR	12	5		5	.1							5					
WF		CR	CR	13	78	5.0	74	1.3			37	15	1	7	10	4				
WF		CR	CR	14	6		6	.1				6								
WF		CR	CR	17	204		202	3.5			111	49	15	14	5		8			
WF		CR	CR	23	289	1.5	285	4.9			170	33	24	8	29	10	11			
WF		CR	CR	27	383	1.1	379	6.6			183	102	31	15	31	16				
WF		CR	CR	30	25		25	.4					4	22						
WF		CR	CR	31	4		4	.1			4									
WF		CR	CR	34	4,428	2.7	4,310	74.6			219	238	515	693	919	980	569	159	18	
WF		CR	CR	37	10		10	.2			10									
WF		CR	CR	40	452	1.8	444	7.7			160	198	22		63					
WF		CR	GP	11	2		2	.0			2									
WF		CR	GP	12	5		5	.1			5									
WF		CR	GP	13	5		5	.1	1				4							
WF		CR	GP	14	12		12	.2		3		9								
WF		CR	GP	20	5		5	.1		5										
WF		CR	GP	23	2		2	.0	2											
WF		Totals			5,921	2.4	5,780	78.6	3	8	901	651	617	758	1063	1015	588	159	18	
SP		CR	CR	16	4		4	4.4				4								
SP		CR	CR	20	9		9	10.6				9								
SP		CR	CR	32	79	4.3	76	85.0				16		31		17	12			

TC PLOGSTVB

Log Stock Table - MBF

T32 R7 S36 Ty5
THRU
T32 R7 S36 Ty4

Project: HOLE
Acres 604.60

Date 8/12/2003
Time 11:14:31AM

Spp	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+
SP		Totals			92	3.7	89	1.2				29		31		17	12			
Total		All Species			7,519	2.3	7,349	100.0	54	69	1418	996	811	919	1170	1116	618	159	18	

TC PSPCSTGR

Species, Sort Grade - Board Foot Volumes (Project)

T32 R7 S36 Ty5
THRU
T32 R7 S36 Ty4

Project: HOLE
Acres 604.60

Date 7/25/2003
Time 11:06:22AM

Spp	S T	So Gr rt	ad	% Net BdFt	Bd. Ft. per Acre Def%	Gross	Net	Total Net MBF	Percent of Net Board Foot Volume: Log Scale Dia. 4-5	6-11	12-16	17+	Log Length 12-20	21-30	31-35	36-99	Average Log Ln Ft	Bd Ft	CF/ Lf	Logs Per /Acre
LP		CR	CR	10	1.8	1,293	1,269	768		88	12		23	25	35	17	21	71	0.86	17.9
LP		CR	GP	1		126	126	76	61	39			80	14		7	17	20	0.35	6.2
LP	**Totals**			11	1.7	1,419	1,395	844	6	84	11		29	24	32	16	20	58	0.75	24.1
PP		CR	CU														10		0.00	.2
PP		CR	CR	7	2.2	861	843	510		51	38	11	25	21	48	6	19	118	1.42	7.2
PP		CR	GP	2		210	210	127	51	49			96	4			15	13	0.25	16.3
PP	**Totals**			9	1.7	1,072	1,053	637	10	50	30	9	39	17	38	5	16	44	0.67	23.7
WF		CR	CU														2		0.00	.2
WF		CR	CR	78	2.4	9,741	9,508	5,749		37	38	24	5	12	75	8	26	227	1.87	42.0
WF		CR	GP	0		52	52	31	36	64			92	8			14	11	0.31	4.6
WF	**Totals**			79	2.4	9,793	9,560	5,780	0	38	38	24	6	12	75	8	24	204	1.78	46.8
SP		CR	CR	1	3.7	153	147	89		33	35	32	15		85		24	188	1.82	.8
SP	**Totals**			1	3.7	153	147	89		33	35	32	15		85		24	188	1.82	.8
Totals					2.3	12,436	12,156	7,349	2	44	34	20	11	14	67	8	21	127	1.32	95.4

Species Table Report

TblSpecies

Date: 4/16/03
Page: 1

Table Name: KL SPECIES

Cod	Abrv	Description	Bark Ratio	ASubo 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	P PINE	.87	PP	.85	C	C	PP--EQUA--100	3	9	20	1.0	99	200	E	1	LB M
2	WF	WHITE F	.94	NF	.87	C	C	DF--EQUA--050	3	9	20	1.0	99	200	E	1	LB M
3	LP	LP PINE	.96	DF	.9	C	C	LP--EQUA--100	3	9	20	1.0	99	200	E	1	LB M
5	SP	SUG PINE	.87	PP	.84	C	C	PP--EQUA--100	3	9	20	1.0	99	200	E	1	LB M
6	IC	INC CED	.90	SS	.8	C	C	DF--EQUA--050	3	9	20	1.0	99	200	E	1	LB M

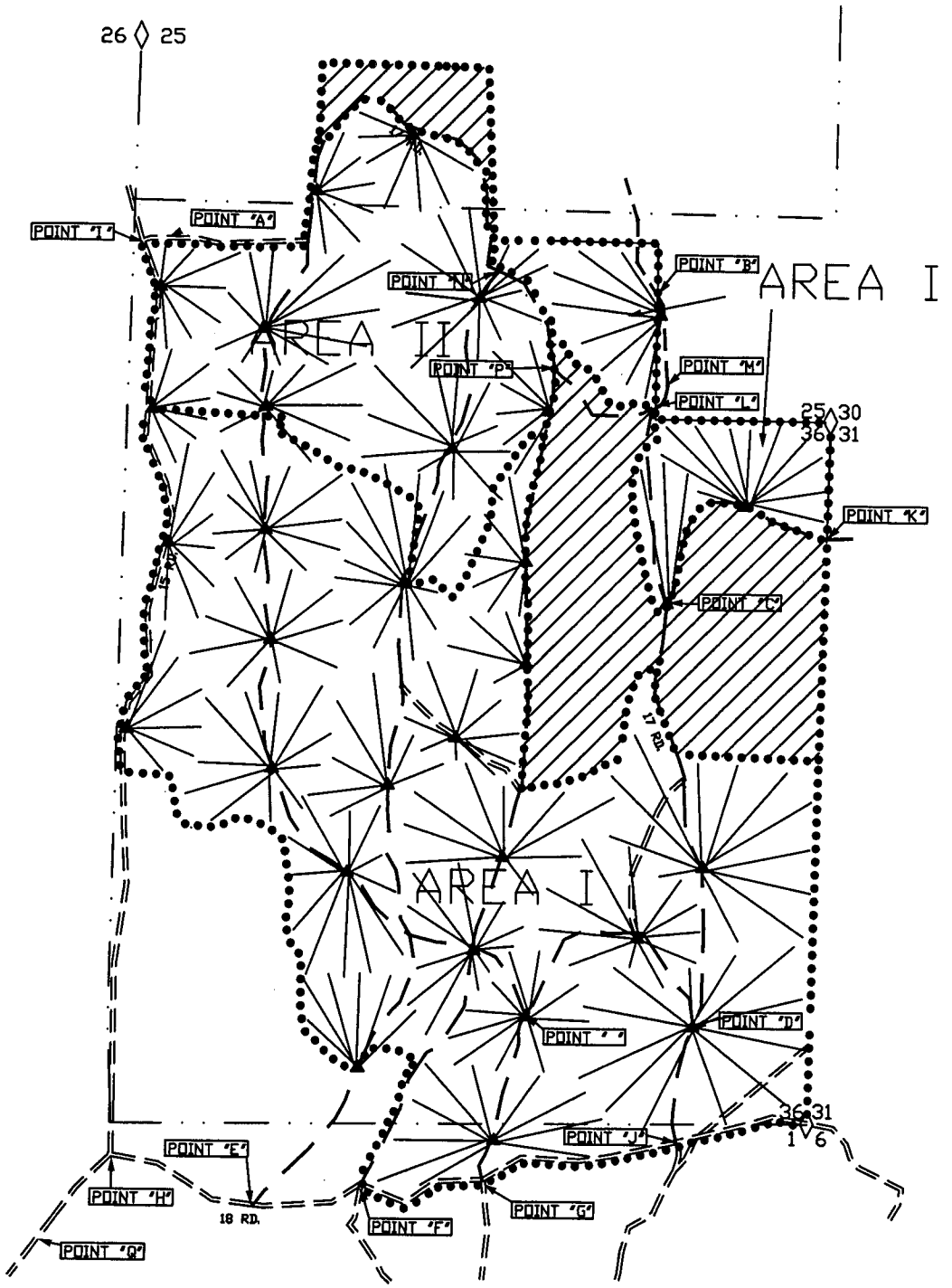
Sort/Grade Table

TblSortGrade

Table Name: KLAMATH

Date: 4/16/03

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



LOGGING PLAN

OF TIMBER SALE CONTRACT NO. 341-04-50
HOLE IN ONE
PORTIONS OF SECTIONS 25 AND 36 T 32S R 7.5E W.M.
PORTION OF SECTION 1 T 33S R 7.5E, W.M.
KLAMATH COUNTY, OREGON

LEGEND

- •••• TIMBER SALE BOUNDARY
- —— SECTION LINE
- ◊ KNOWN SURVEY CORNER
- POINT " " POINT FOR PROJECT WORK
- ▨ EXCLUSION AREA
- — — — UNSURFACED EXISTING ROAD
- ——— UNSURFACED ROAD (CONST. REQ'D)
- — — UNSURFACED EXISTING ROAD (IMPROVEMENT REQ'D)
- ▲ LANDINGS

SALE AREA I	466 ACRES
SALE AREA II	139 ACRES
TOTAL SALE AREA:	605 ACRES

APPROX. SCALE 1" = 1320'

0' 1320' 2640