



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Cost Summary Leo's Landing Sale 341-04-35

District: Klamath/Lake

Date: 10/7/03

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$734,029.65	\$0.00	\$734,029.65
		Project Work	(\$32,285.00)
		Advertised Value	\$701,744.65



Timber Sale Appraisal Timber Description Leo's Landing Sale 341-04-35

"STEWARDSHIP IN FORESTRY"

District: Klamath/Lake

Location: T32S, R7.5E
Portions of Sections 16, 17, 21, 27, 34, & 35
Klamath County

Date: 10/7/03

Stand Stocking: 40%

Species	Avg. DBH	Amortized%	Recovery%
Douglas - Fir	19	0	97
White Fir	17	0	95
Sugar Pine	22	0	97
Ponderosa Pine	14	0	97

Volume by Grade	Douglas - Fir	White Fir	Sugar Pine	Ponderosa Pine	Total
CR 8" - 14"	28	2,542	96	425	3,091
CR 14" - 22"	0	1,600	90	174	1,864
CR 22"+	24	320	67	5	416
Total	52	4,462	253	604	5,371

Comments: Pond Values Used: 3rd quarter 2003

Shasta Red Fir volume added to White Fir volume

OTHER COSTS-With P&R (See attached pages)

Dust Abatement:\$24,628.10

Brand & Paint: \$11,050.00

Additional Dozer Time: \$1,414.80

Additional Skidder: \$8250.00

Intermediate Supports: \$1500.00

Total: \$46,842.90

OTHER COSTS-No P&R

USFS Road use Fee: \$0.14/MBF (Approx. \$61.25)

Private Road use Fee: \$50.00



Timber Sale Appraisal

Logging Costs

Leo's Landing

Sale 341-04-35

"STEWARDSHIP IN FORESTRY"

Date: 10/7/03

Operating Seasons: 2.0

Profit & Risk: 15%

Project Costs: \$32,285

Other Costs (P/R): \$46,843

Slash Disposal: \$0

Other Costs: \$111

Miles of Road			
Dirt	Rock (Contractor)	Rock (State)	Paved
0.0	0.0	0.0	0.0

Road Maintenance: \$0.46

Hauling Costs

Species	\$/MBF	Trips/Day	MBF/Load
Douglas - Fir	\$0.00	2.0	4.0
White Fir	\$0.00	2.0	4.0
Sugar Pine	\$0.00	2.0	4.0
Ponderosa Pine	\$0.00	2.0	3.5

Local Pond Values

Date	Species	Grade	Value
10/7/03	Douglas - Fir	CR 8" - 14"	\$385.00
10/7/03	Douglas - Fir	CR 14" - 22"	\$415.00
10/7/03	Douglas - Fir	CR 22"+	\$415.00
10/7/03	White Fir	CR 8" - 14"	\$320.00
10/7/03	White Fir	CR 14" - 22"	\$330.00
10/7/03	White Fir	CR 22"+	\$335.00
10/7/03	Sugar Pine	CR 8" - 14"	\$320.00
10/7/03	Sugar Pine	CR 14" - 22"	\$450.00
10/7/03	Ponderosa Pine	CR 8" - 14"	\$295.00
10/7/03	Ponderosa Pine	CR 14" - 22"	\$395.00
10/7/03	Ponderosa Pine	CR 22"+	\$525.00



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Logging Costs Breakdown Leo's Landing Sale 341-04-35

Costs	Douglas - Fir	White Fir	Sugar Pine	Ponderosa Pine
Logging	111.23	94.79	83.81	96.49
Road Maintenance	0.47	0.48	0.47	0.47
Fire Protection	1.01	1.01	1.01	1.01
Hauling	59.28	60.53	59.28	67.73
Other (P/R appl.)	8.72	8.72	8.72	8.72
Profit & Risk	27.11	24.83	22.99	26.16
Slash Disposal	0.00	0.00	0.00	0.00
Scaling	2.00	2.00	2.00	2.00
Other	0.02	0.02	0.02	0.02
Total	209.84	192.38	178.30	202.60

Amortization	0.00	0.00	0.00	0.00
Pond Value	398.85	324.66	413.91	325.71
Stumpage	189.01	132.28	235.61	123.11
Amortized	0.00	0.00	0.00	0.00



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Summary Leo's Landing Sale 341-04-35

Amortized

	Douglas - Fir	White Fir	Sugar Pine	Ponderosa 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

	Douglas - Fir	White Fir	Sugar Pine	Ponderosa Pine
MBF	52.00	4,462.00	253.00	604.00
Value	189.01	132.28	235.61	123.11
Total	9,828.52	590,233.36	59,609.33	74,358.44

Gross Timber Sale Value

Recovery \$734,029.65

Prepared by: John Pellissier

Date: 10/7/03

District: Klamath/Lake

Phone: (541) 883-5681

**Leo's Landing
341-04-35**

Summary of Project Work

Project #1: Road Construction and Improvement \$7,632.47

Project #2: Fell, Skid, and Pile Submerchantable Material \$24,299.10

Project #3: Road Closures \$353.70

TOTAL: \$32,285.27

Number Used in Appraisal and Contract \$32,285.00

LEO's LANDING

341-04-35

Additional Costs Sheet



"STEWARDSHIP IN FORESTRY"

Road Maintenance									
Move-in cost (grader):	\$	241.00							
Number of Bladings		1							
Number of Miles to be Bladed		15.2							
Miles / Hour for equipment		0.5							
Cost / Hour:	\$	73.25							
Total Grading Hours:		30.4							
Grading Cost:	\$	2,226.80							
Total Cost:	\$	2,467.80							
Cost / MBF	\$	0.46							
Dust Abatement									
PP	604	MBF	Average Load	3500	BF	173	# of Loads		
WF	4,280	MBF	Average Load	4000	BF	1070	# of Loads		
SP	253	MBF	Average Load	3850	BF	66	# of Loads		
Shasta Red Fir	182	MBF	Average Load	4000	BF	46	# of Loads		
Douglas-fir	52	MBF	Average Load	4000	BF	13	# of Loads		
						1368	Total		
Total	5,371	MBF		85.5	Hauling Days				
				5	Hours / Day				
				\$57.24	Cost / Hour				
		8 Trucks/Day		427.5	Total Hours				
		2 Trips/Day		\$24,470.1	Dust Abatement Cost				
		16 Loads/Day		\$158	Move-In for Water Truck				
				\$24,628.10	Total Cost				
				\$	4.59	Cost / MBF			

Knot Bumper and Branding

111	Hauling Days	(Add an additional 25 days)
10	Hours / Day	
\$ 10.00	Cost / Hour	
\$ 11,050.00	Total Cost	\$ 2.06 Cost/MBF

Additional Dozer Time (Water Bar, etc.)

20	Hours
\$ 70.74	Dozer cost/hr
\$ 1,414.80	Total Cost

Intermediate Supports

	20	Approximate # Required
\$	75.00	Cost /Support
\$	1,500.00	Total Cost

Additional Skidder

This volume will be skidded from a Tower only Landing to a Processing Landing

	550	Approximate Volume MBF
\$	15.00	Cost/MBF
\$	8,250.00	Total Cost

Additional Road Clearing

Summary of Other Costs-With P&R

Dust Abatement	\$	24,628.10
Knot Bumper/Log Brander	\$	11,050.00
Additional Dozer Time	\$	1,414.80
Intermediate Supports	\$	1,500.00
Additional Skidder	\$	<u>8,250.00</u>
Total	\$	46,842.90

Other Costs- No P&R

Road Use Fee-USFS	\$	61.25
Road Use Fee-Private	\$	50.00
Total	\$	111.25

LEO'S LANDING

341-04-35

Project #1 Road Construction/Improvement

Move-in cost (Dozer) \$ 370.00



"STEWARDSHIP IN FORESTRY"

New Construction (Dozer Time)						
	Points	Distance (feet)	Feet / Hour	Hours	Cost / Hour	Cost
Outslope	G to H	7650	2550	3	70.74	\$ 212.22
Outslope	DD to EE	150	150	1	70.74	\$ 70.74
Clearing/Grubbing	AA to BB	3200	3200	1	70.74	\$ 70.74
Roadside Clearing	B to S	8640	4320	2	70.74	\$ 141.48
Outslope	FF to GG	800	800	1	70.74	\$ 70.74
Outslope	X to Y	300	300	1	70.74	\$ 70.74
Outslope	X to Z	400	400	1	70.74	\$ 70.74
				10	Total Cost	\$ 707.40
Grade and Shape						
Grader	Total Feet	7650				
	Feet / Hour	3825				
	Cost / Hour	\$ 73.25				
	Total Hours	2.0				
	Total Cost	\$ 146.50				
				Water Truck	Hours	25
				Cost / Hour		\$ 57.24
				Total Cost		\$ 1,431.00

Road Improvement (Grader Time)						
	Points	Distance (feet)	Feet / Hour	Hours	Cost / Hour	Cost
Crown w/ditch	A to C	11,560	2890	4.0	\$ 73.25	\$ 293.00
Shape to Drain	C to E	3300	2200	1.5	\$ 73.25	\$ 109.88
Shape to Drain	B to S	8640	1728	5.0	\$ 73.25	\$ 366.25
Shape to Drain	J to K	1820	910	2.0	\$ 73.25	\$ 146.50
Shape to Drain	K to N	5190	2595	2.0	\$ 73.25	\$ 146.50
Shape to Drain	AA to BB	3200	1600	2.0	\$ 73.25	\$ 146.50
Shape to Drain	BB to FF	3500	3500	1.0	\$ 73.25	\$ 73.25
Shape to Drain	FF to HH	2500	2500	1.0	\$ 73.25	\$ 73.25
Crown w/ditch	T to V	21,320	2665	8.0	\$ 73.25	\$ 586.00
Crown w/ditch	U to W	20000	2500	8.0	\$ 73.25	\$ 586.00
Crown w/ditch	W to V	9400	1175	8.0	\$ 73.25	\$ 586.00
	Total			42.5		\$ 3,113.13

Roadside Brushing						
	Points	Distance(feet)	Feet/Hour	Hours		
	A to E	15,000	500	30.0		
	B to S	9,000	500	18.0		
	U to V	30,000	500	60.0		
				108.0	\$10.00	\$ 1,080.00

Roadside Snag Removal/Clearing						
	Points			Hours		
	O to Q		Fallers	12.0	\$ 30.00	\$ 360.00
			Dozer	6	\$ 70.74	\$ 424.44
						\$ 784.44

Total Project #1 **\$7,632.47**

Project #2 Fell, Skid, & Pile Submerchantable Material

Tractor Ground		Cable Ground	
205	Total Subsawlog Volume MBF	110	Total Subsawlog Volume MBF
\$38.55	Fell & Skid/MBF	\$58.50	Fell & Skid/MBF
\$6.45	Sort/MBF	\$6.45	Sort/MBF
\$45.00	Total/MBF	\$64.95	Total /MBF
\$9,225.00	Total Cost	\$7,144.50	Total Cost

Landing Cleanup (included with Project #2)

28	Number of Processing Landings	2	Hours/Landing (shovel)	
12	Number of Tower Landings	1	Hours/Landing (shovel)	
40	Total # of Landings	1	Hours/Landing (Dozer)	
56	Total Hours (Processing Landings)	\$ 75.00	Shovel Cost	\$ 4,200.00
12	Total Hours (Tower Landings)	\$ 75.00	Shovel Cost	\$ 900.00
40	Total Hours all Landings (Dozer)	\$ 70.74	Dozer Cost	\$ 2,829.60
				Total \$ 7,929.60

Total Cost Project #2 \$24,299.10
 Cost/MBF 4.52

Project #3 Road Closures

5	Total Hours (Dozer)
\$ 70.74	Dozer Cost
\$ 353.70	

Total Cost Project #3 \$ 353.70

Project Cost Summary

\$ 7,632.47	Project # 1 ~ Road Construction and Improvement
\$ 24,299.10	Project # 2 ~ Fell, Skid, & Pile Submerchantable Material
\$ 353.70	Project # 3 ~ Road Closures
\$ 32,285.27	Total Cost

\$ 32,285.00 Cost Used in Appraisal

CRUISE REPORT

Sale Name: Leo's Landing

Sale Area: T. 32 S., R. 7 1/2 E., Portions of sections 16,17,21,27,34,and 35.

Fund: 100% BOF

Boundary Lines: All area boundaries are posted with "Timber Sale Boundary" signs, marked with fluorescent orange paint and fluorescent orange flagging

Areas were mapped using GPS, with data run on the district GIS program.

Acreage and BAF:

AREA	ACRES	BAF	TREATMENT
#1	1.2	40	ITM
#2	8.8	40	ITM
#3	8.2	40	LTM
#4	3.0	40	LTM
#5	11.0	40	ITM
#6	165.0	20	LTM
#7	26.5	14	LTM
#8	35.0	20	LTM
#9	50.6	20	LTM
# 10	7.5	20	ITM
Approximate Sale Acreage	316.8		

Treatment: ITM: Individual Tree Mark. These areas are marked as a selection cut. Cut tree mark, with blue paint.

LTM: Leave Tree Mark. These areas are marked as a selection cut. Leave tree mark with orange paint.

Wildlife trees are designated with an orange painted "W".

Cruise Method:

Merchantable Volume: All areas were Variable plot cruised with all the plots being measure and full sample point plots.

Submerchantable Volume:(5.0-8.0 DBH) Areas 6,7,8,& 9 a 1/50th Fixed plot cruise with all plots being measure plots.

Measure and grade all trees.

Plot Designation:

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

Statistical Analysis and Stand Summary: (See "statistics"-Type Reports, attached)

Area	Estimated CV	Target SE%	Actual CV	Actual SE%
Areas 1-10	100%	12%	86.9%	9.5%

The results have been mathematically combined.

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 Submerch. Material (5.0"-8.0"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 8 or 9 inches) The log segments are then broken out and graded accordingly.

Minimum DBH: 8.0" dbh for sawlog volume
5.0" dbh for pulp volume

Diameter Standards: 1" diameter class

BTR:

Standard ratios were used. See attached species table for specifics.

Form Factor:

Form factor was measured or estimated at 16' for every tree.

Form Point: All trees were sighted at dbh.

Cruisers:

John Pellissier, Jason Pettigrew, & Ed Scheick
Cruised December 2002

Volume Computation:

All cruise data was inputted and run at the district level on Atterbury's super ace program.

Timber Description:

SAWLOG VOLUME:

This volume was obtained from the variable plot cruise. All material > 8.0" DBH.
All material graded camprun
See grade table for minimum standards.

	<u>SPECIES</u>	<u>AVE. DBH</u>	<u>GROSS VOL (MBF)</u>	<u>NET VOL (MBF)</u>
AREA 1	White fir	23.8	52	51
	Shasta Red Fir	30.4	57	56
TOTAL AREA 1 -----				107 MBF
AREA 2	White fir	20.6	97	92
	Shasta Red Fir	21.0	133	126
TOTAL AREA 2 -----				218 MBF
AREA 3	White fir	16.1	380	368
	Ponderosa pine	17.6	8	7
TOTAL AREA 3 -----				375 MBF
AREA 4	White fir	19.1	78	70
	Ponderosa pine	14.2	19	17
	Sugar Pine	28.1	13	12
TOTAL AREA 4 -----				99 MBF

	<u>SPECIES</u>	<u>AVE. DBH</u>	<u>GROSS VOL (MBF)</u>	<u>NET VOL (MBF)</u>
AREA 5	White fir	18.2	89	86
	Ponderosa pine	29.4	116	113
	Sugar pine	25.1	41	40
This is optional volume and is not included in the final volume				
TOTAL AREA 5			-----239 MBF	
AREA 6	White fir	17.2	2165	2097
	Ponderosa pine	15.3	320	311
	Sugar pine	24.6	173	171
	Douglas-fir	16.4	18	18
TOTAL AREA 6			-----2,597 MBF	
AREA 7	White fir	13.9	172	169
	Ponderosa pine	11.8	36	36
	Sugar pine	14.9	14	14
TOTAL AREA 7			-----219 MBF	
AREA 8	White fir	17.6	1056	1040
	Ponderosa pine	12.9	63	61
	Sugar pine	20.2	14	14
TOTAL AREA 8			-----1,115 MBF	
AREA 9&	White fir	14.2	396	393
AREA 10	Ponderosa pine	12.8	175	172
	Sugar pine	19.5	42	42
	Douglas-fir	24.2	34	34
TOTAL AREA 9&10			-----641 MBF	
TOTAL SALE AREA				
	White fir	16.7	4396	4280
	Ponderosa pine	13.9	621	604
	Shasta Red Fir	22.1	149	182
	Sugar pine	21.8	297	253
	Douglas-fir	19.4	52	52
TOTAL SAWLOG VOLUME			-----5,371 MBF	

(Volumes obtained from Spp, sort, Grade, len%-BDFT Repo)

GREEN PULP VOLUME:

This volume was obtained from the variable plot cruise (>8.0"DBH) and the fixed plot cruise (5.0"-8.0"DBH).

All material graded green pulp.

See grade table for minimum standards.

<u>SPECIES</u>	<u>AVE. DBH</u>	<u>GROSS VOL (MBF)</u>	<u>NET VOL (MBF)</u>
AREA 6			
Variable plot:			
White fir		8	8
Ponderosa pine		21	21
Fixed plot:			
White fir	6.8	67	67
Ponderosa pine	5.8	10	10
Sugar pine	5.2	5	5
TOTAL AREA 6 -----			111 MBF
AREA 7			
Variable plot:			
White fir		4	4
Ponderosa pine		18	18
Sugar pine		2	2
Fixed plot:			
White fir	6.1	13	13
Ponderosa pine	5.9	12	12
Sugar pine	6.6	1	1
TOTAL AREA 7 -----			50 MBF
AREA 8			
Variable plot:			
Ponderosa pine		13	13
Fixed plot:			
White fir	6.2	22	22
Ponderosa pine	5.9	9	9
Sugar pine	5.0	1	1
TOTAL AREA 8 -----			45 MBF

<u>SPECIES</u>	<u>AVE. DBH</u>	<u>GROSS VOL (MBF)</u>	<u>NET VOL (MBF)</u>
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AREA 9&10

Variable plot:

White fir		7	7
Ponderosa pine		54	54

Fixed plot:

White fir	6.4	21	21
Ponderosa pine	6.7	25	25
Sugar pine	6.2	2	2

TOTAL AREA 9&10-----109 MBF

TOTAL SALE AREA

Ponderosa pine	6.3	162	162
White fir	6.5	142	142
Sugar pine	5.6	6	6

TOTAL GREEN PULP VOLUME-----315 MBF

(Volumes obtained from Spp, sort, Grade, len%-BDFT Report)

PROJECT STATISTICS
PROJECT LEOS

TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES			
32S	7.5	27	VAR	A7	THRU	316.80	83	532			
7.5	32	16	LEOS	A6							
		PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES					
TOTAL		83	532	6.4							
CRUISE		81	532	6.6	28,112	1.9					
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	354	56.1	16.7	51	15	84.9	14,221	13,846	2,787	2,787	
P PINE	120	27.7	13.9	36		29.4	2,665	2,598	587	587	
SH RFIR	23	1.3	22.1	64		3.4	600	575	112	112	
SUG PINE	31	3.1	21.8	46		8.0	941	931	192	192	
LP PINE	1	.1	21.9	59		.2	25	23	6	6	
DOUG-FIR	3	.5	19.4	58	0	1.0	164	164	33	33	
TOTAL	532	88.7	16.2	47		126.9	18,616	18,137	3,718	3,718	
	COEFF VAR.	S.E.%	SAMPLE TREES - BF			# OF TREES REQ.		INF. POP.			
SD: 1			LOW	AVG	HIGH	5	10	15			
WHITE F	137.4	6.0	297	315	334						
P PINE	348.4	15.1	40	47	54						
SH RFIR	592.8	25.7	25	34	43						
SUG PINE	660.0	28.6	25	36	46						
LP PINE	2306.5	100.0		1	1						
DOUG-FIR	2097.8	91.0	1	8	15						
TOTAL	112.9	4.9	419	441	462	510	127	57			
	COEFF VAR.	S.E.%	SAMPLE TREES - CF			# OF TREES REQ.		INF. POP.			
SD: 1			LOW	AVG	HIGH	5	10	15			
WHITE F	124.2	5.4	56	59	63						
P PINE	311.5	13.5	8	10	11						
SH RFIR	555.3	24.1	5	6	7						
SUG PINE	600.2	26.0	5	7	8						
LP PINE	2306.5	100.0	0	0	0						
DOUG-FIR	2011.2	87.2	0	1	2						
TOTAL	97.1	4.2	80	83	87	377	94	42			
	COEFF VAR.	S.E.%	TREES/ACRE			# OF PLOTS REQ.		INF. POP.			
SD: 1			LOW	AVG	HIGH	5	10	15			
WHITE F	127.6	14.0	47	56	65						
P PINE	180.5	19.8	22	28	33						
SH RFIR	517.3	56.8		1	3						
SUG PINE	234.0	25.7	2	3	4						
LP PINE	911.0	100.0		0	0						
DOUG-FIR	640.8	70.3	0	0	1						
TOTAL	88.0	9.7	79	89	98	310	78	34			
	COEFF VAR.	S.E.%	BASAL AREA/ACRE			# OF PLOTS REQ.		INF. POP.			
SD: 1			LOW	AVG	HIGH	5	10	15			
WHITE F	101.5	11.1	74	85	96						
P PINE	153.4	16.8	24	29	35						
SH RFIR	462.4	50.8		3	9						
SUG PINE	217.7	23.9	6	8	10						
LP PINE	911.0	100.0		0	1						
DOUG-FIR	675.7	74.2	0	1	2						
TOTAL	68.4	7.5	116	127	138	187	47	21			

PROJECT STATISTICS
PROJECT LEOS

TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES		
32S	7.5	27	VAR	A7	THRI	316.80	83	532		
7.5	32	16	LEOS	A6						
			COEFF	NET BF/ACRE			# OF PLOTS REQ.		INF. POP.	
SD:	1		VAR.	S.E.%	LOW	AVG	HIGH	5	10	15
			COEFF	NET BF/ACRE			# OF PLOTS REQ.		INF. POP.	
SD:	1		VAR.	S.E.%	LOW	AVG	HIGH	5	10	15
WHITE F			111.0	12.2	11,825	13,846	15,867			
P PINE			174.8	19.2	2,057	2,598	3,139			
SH RFIR			465.8	51.1		575	1,682			
SUG PINE			232.4	25.5	688	931	1,174			
LP PINE			911.0	100.0		23	82			
DOUG-FIR			728.3	79.9	63	164	266			
TOTAL			86.9	9.5	15,971	18,137	20,303	302	76	34
			COEFF	NET CUFT FT/ACRE			# OF PLOTS REQ.		INF. POP.	
SD:	1		VAR.	S.E.%	LOW	AVG	HIGH	5	10	15
WHITE F			106.7	11.7	2,402	2,787	3,172			
P PINE			161.7	17.7	476	587	699			
SH RFIR			455.8	50.0		112	311			
SUG PINE			225.3	24.7	142	192	242			
LP PINE			911.0	100.0		6	21			
DOUG-FIR			695.2	76.3	14	33	51			
TOTAL			80.0	8.8	3,318	3,718	4,117	256	64	28

Species, Sort Grade - Board Foot Volumes (Project)

T32S R7.5 S27 TyA7
THRU
T7.5 R32 S16 TyA6

Project: LEOS
Acres 316.80

Page 1
Date 7/15/2003
Time 12:22:18PM

S Spp	So T	Gr rt	ad	% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent of Net Board Foot Volume								Average Log			Logs Per /Acre
					Def%	Gross	Net		Log Scale Dia.				Log Length				Ln Ft	Bd Ft	CF/ Lf	
									6-8	8-14	14-22	22+	12-20	21-30	31-35	36-99				
WF	CR			0		7	7	2	100								23	120	1.13	.1
WF	CRCU																12		0.00	.2
WF	CRCR			76	2.6	14,149	13,774	4,364	20	37	36	7	5	7	78	10	27	262	1.92	52.6
WF	CRGP			0		59	59	19	100				57				15	20	0.44	3.0
WF	CRDP			0		6	6	2	100				100				14	20	0.36	.3
WF Totals				76	2.6	14,221	13,846	4,386	20	37	36	7	5	7	77	10	27	247	1.87	56.1
PP	CRCR			12	2.9	2,327	2,261	716	13	49	36	2	16	19	56	9	22	170	1.68	13.3
PP	CRGP			2		337	337	107	95	5			81	17	2		15	15	0.31	22.5
PP Totals				14	2.5	2,665	2,598	823	24	43	31	2	24	19	49	8	17	73	0.94	35.8
SP	CRCR			5	1.1	936	925	293	6	31	32	32	3	11	74	12	27	409	3.13	2.3
SP	CRGP			0		6	6	2	100				100				18	20	0.22	.3
SP Totals				5	1.1	941	931	295	6	31	31	31	4	11	74	12	26	366	2.91	2.5
RF	CRCR			3	4.2	600	575	182	10	28	45	16	9	19	62	11	25	345	2.69	1.7
RF Totals				3	4.2	600	575	182	10	28	45	16	9	19	62	11	25	345	2.69	1.7
DF	CRCR			1		164	164	52	9	44	6	41	9		91		23	225	1.97	.7
DF Totals				1		164	164	52	9	44	6	41	9		91		23	225	1.97	.7
LP	CRCR			0	8.6	25	23	7	25	75					100		32	320	2.59	.1
LP Totals				0	8.6	25	23	7	25	75					100		32	320	2.59	.1
Totals					2.6	18,616	18,137	5,746	20	37	35	8	8	9	73	10	23	187	1.66	96.9

LOGGING PLAN

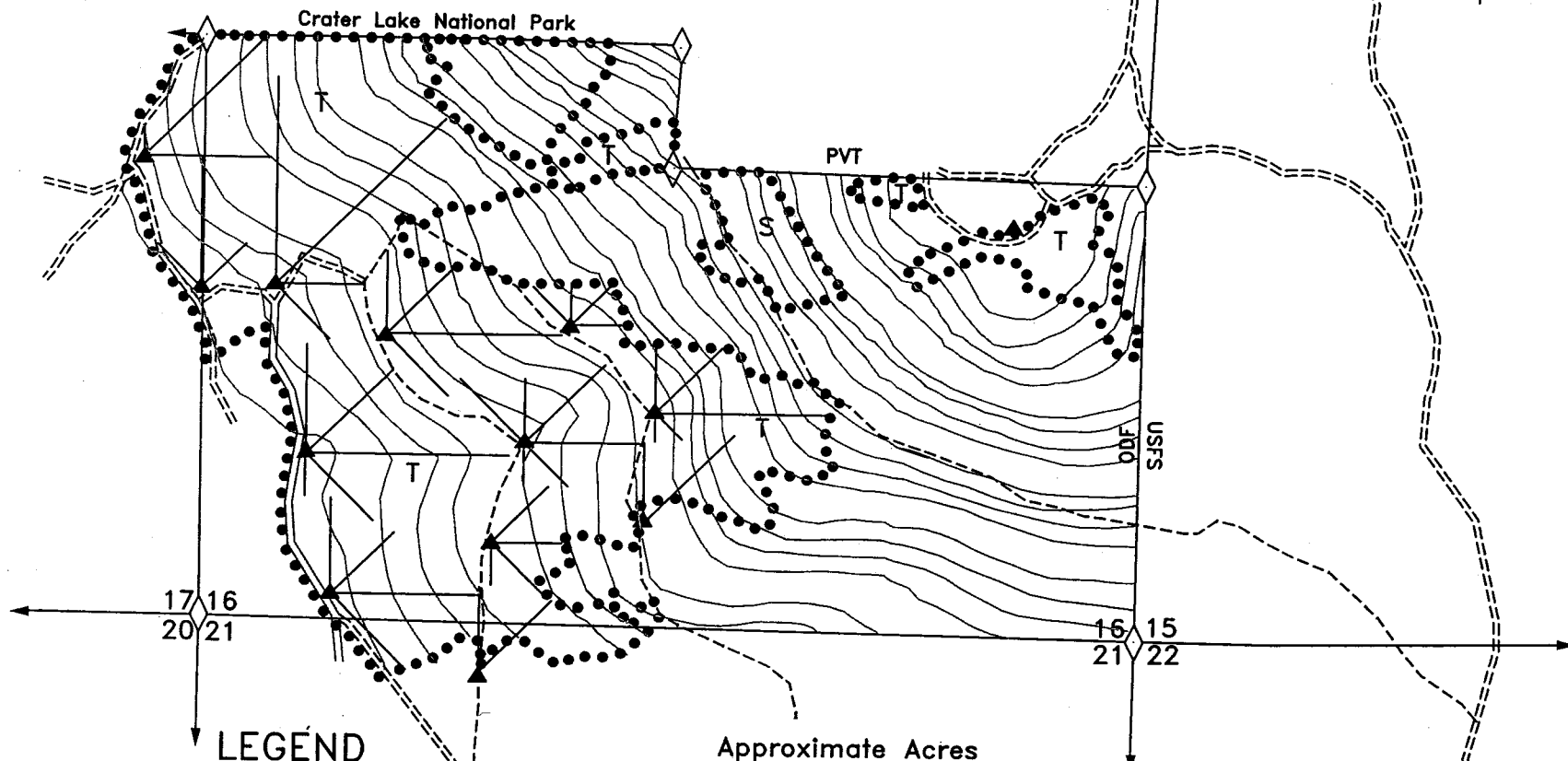
of Timber Sale Contract No.

341-04-35

Leo's Landing

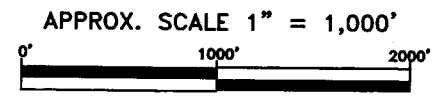
Portions of Sections 16,17,&21,T32S, R7.5E,W.M.

Klamath County, Oregon



- LEGEND**
- TIMBER SALE BOUNDARY
 - Section Line
 - ◇ Surfaced Existing Road
 - POINT " " Point for Project Work
 - ==== Surfaced Existing Road
 - == Unsurfaced Existing Road
 - - - - Unsurfaced Road (Const. Required)
 - T Tractor Logging
 - S Shovel Logging

Approximate Acres	
Area 1	1.2 Acres
Area 2	8.8 Acres
Area 3	8.2 Acres
Area 4	3.0 Acres
Area 5	11.0 Acres
Area 6	165.0 Acres
Area 7	26.5 Acres
Area 8	35.0 Acres
Area 9	50.6 Acres
Area 10	7.5 Acres
Total	316.8 Acres



LOGGING PLAN

of Timber Sale Contract No.

341-04-35

Leo's Landing

Portions of Sections 27,34,&35, T32S,R7.5E,W.M.

Klamath County, Oregon



Approximate Acres	
Area 1	1.2 Acres
Area 2	8.8 Acres
Area 3	8.2 Acres
Area 4	3.0 Acres
Area 5	11.0 Acres
Area 6	165.0 Acres
Area 7	26.5 Acres
Area 8	35.0 Acres
Area 9	50.6 Acres
Area 10	7.5 Acres
Total	316.8 Acres

LEGEND

- TIMBER SALE BOUNDARY
- ← Section Line
- ◇ Known Land Survey Corner
- POINT " " Point for Project Work
- ==== Surfaced Existing Road
- ==== Unsurfaced Existing Road
- Unsurfaced Road (Const. Required)
- ▨ Exclusion Area
- ▲^T Landing (tower only)
- ▲^P Landing (processing area)
- T Tractor Ground
- Tractor/Cable Ground Break

APPROX. SCALE 1" = 1,000'

