



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal  
Boondoggle  
Sale 341-11-25

District: Klamath/Lake

Date: July 08, 2010

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**cost summary**

	<b>Conifer</b>	<b>Hardwood</b>	<b>Total</b>
<b>Gross Timber Sale Value</b>	\$238,459.92	\$0.00	\$238,459.92
		<b>Project Work:</b>	\$(11,758.00)
		<b>Advertised Value:</b>	\$226,701.92



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**timber description**

Location: Portions of Sections 29, 30, & 31, T37S, R12E, W.M., Klamath County, Oregon.

Stand Stocking: 20%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
White Fir	15	0	95

Volume by Grade	CR 14" -	CR 6" - 8	CR 8" - 1	Total
White Fir	467	544	885	1,896
Total	467	544	885	1,896

**comments:** Pond Values Used: 2nd Quarter Calendar Year 2010.

Log Markets: Klamath Falls and Medford.

SCALING COST ALLOWANCE = \$5.00/MBF

FUEL COST ALLOWANCE = \$3.00/Gallon

HAULING COST ALLOWANCE

Hauling costs equivalent to \$700 daily truck cost.

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

Dust Abatement: \$18,210

Log Branding & Painting: \$1,476

TOTAL Other Costs (with Profit & Risk to be added): \$19,686

Other Costs (No Profit & Risk added):

Road Use Fee: \$1,915

TOTAL Other Costs (No Profit & Risk added): \$1,915



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**logging conditions**

**combination#: 1**                      White Fir                      50.00%  
**yarding distance:** Medium (800 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:** 3,900  
**cost / mbf:** \$70.95  
  
**machines:** Log Loader (B)  
Stroke Delimber (B)  
Feller Buncher w/ Delimber  
Tire Skidder

**combination#: 2**                      White Fir                      50.00%  
**yarding distance:** Medium (800 ft)                      **downhill yarding:** Yes  
**logging system:** Track Skidder                      **Process:** Manual Falling/Delimiting  
**tree size:** Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF  
**loads / day:** 10.0                      **bd. ft / load:** 4,200  
**cost / mbf:** \$81.10  
  
**machines:** Log Loader (B)  
Track Skidder



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**logging costs**

Operating Seasons:	1.00	Profit Risk:	12.00%
Project Costs:	\$11,758.00	Other Costs (P/R):	\$19,686.00
Slash Disposal:	\$0.00	Other Costs:	\$1,915.00

**Miles of Road**

Road Maintenance: \$1.30

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	3.0	3.9

**Local Pond Values**

Date	Specie	Grade	Value
7/8/10	White Fir	CR 6" - 8"	\$280.00
7/8/10	White Fir	CR 8" - 14"	\$300.00
7/8/10	White Fir	CR 14" - 22"	\$305.00



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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									
\$76.02	\$1.37	\$2.31	\$56.09	\$10.38	\$17.54	\$0.00	\$5.00	\$1.01	\$169.72

Specie	Amortization	Pond Value	Stumpage	Amortized
White Fir	\$0.00	\$295.49	\$125.77	\$0.00



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal  
Boondoggle  
Sale 341-11-25

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**summary**

**Amortized**

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

**Unamortized**

Specie	MBF	Value	Total
White Fir	1,896	\$125.77	\$238,459.92

**Gross Timber Sale Value**

Recovery: \$238,459.92

Prepared by: Ed Scheick

Phone: 541-883-5681

# Summary of Project Work



"STEWARDSHIP IN FORESTRY"

## **Boondoggle** 341-11-25

<b>Project #1:</b> Road Improvement and Construction .....	<b>\$1,597.00</b>
<b>Project #2:</b> Landing Slash Piling.....	<b>\$2,318.00</b>
<b>Project #3:</b> Culvert Replacement.....	<b>\$1,590.00</b>
<b>Project #4:</b> Road Closures.....	<b>\$729.00</b>
<b>Project #5:</b> Precommercial Thin.....	<b>\$5,25.00</b>

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**Total: \$11,758.00**

# Boondoggle

341-11-25

## Other Costs



### Road Maintenance

Move-in cost (grader):	\$400.00	
Number of Bladings	1	
Number of Miles to be Bladed	9.8	← Hummingbird Dr. (approximate 2.25 miles) to be bladed twice.
Miles / Hour for equipment	0.5	
Cost / Hour (grader with operator):	\$105.50	
Total Grading Hours:	19.6	
Grading Cost:	\$2,067.80	
<b>Total Cost:</b>	<b>\$2,467.80</b>	
<b>Cost / MBF</b>	<b>\$1.30</b>	

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

WF	1,896	MBF	Average Load	3900 BF	486 # of Loads
Assume:	4	Trucks/Day		41 Hauling Days	
	3	Trips / Day		41 Possible # of Summer Haul	
	12	Loads Per Day		5 Hours / Day	
				\$88.00 Cost / Hour	
				205 Total Hours	
				\$170.00 Move-In for Water Truck	
				\$18,040.00 Dust Abatement Cost	
				<b>\$18,210.00 Total Cost</b>	
				<b>\$9.60 Cost / MBF</b>	

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

41	Hauling Days
1.5	Hours / Day
\$24.00	Cost / Hour
<b>\$1,476.00</b>	<b>Total Cost</b>
<b>\$0.78</b>	<b>Cost / MBF</b>

### Other Costs with Profit and Risk Included

\$18,210.00	Total Cost for Dust Abatement	\$9.60 per MBF
\$1,476.00	Total Cost for Branding	\$0.78 per MBF
<b>\$19,686.00</b>	<b>Total Other Costs</b>	<b>\$10.38 per MBF</b>

### Other Costs without Profit and Risk Included

\$1,915.00	Total Cost for Road Use Fee	\$1.01 per MBF
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# Boondoggle

## 341-11-25

### Project Work



#### Project #1 Road Improvement and Construction

Move-in Cost Dozer \$400.00

#### Road Improvement

Improvement	Points	Distance (feet)	Feet/Hour	Hours	Cost/Hour	Cost
Open/Clear/Shape	E to F	1363	1000	1.4	\$132.50	\$180.60
Open/Clear/Shape	G to H	2158	1000	2.2	\$132.50	\$285.94
<b>Total</b>						<b>\$466.53</b>

Construction	Points	Distance (feet)	Feet/Hour	Hours	Cost/Hour	Cost
Open/Clear/Shape	A to B	658	500	1.3	\$132.50	\$174.37
Open/Clear/Shape	C to D	2098	500	4.2	\$132.50	\$555.97
<b>Total</b>						<b>\$730.34</b>

#### Project #1 Cost Summary

Move in	\$400.00
Open/Clear/Shape	<u>\$1,196.87</u>
<b>Project # 1 Total</b>	<b>\$1,596.87</b>

#### Project #2 Landing Slash Piling

18	Number of Landings						
	Shovel Time:	0.5	Hours / Landing	Cost / Hour	\$125.00	Total Cost:	\$1,125.00
	Cat Time:	0.5	Hours / Landing	Cost / Hour	\$132.50	Total Cost:	<u>\$1,192.50</u>
						<b>Total Cost:</b>	<b>\$2,317.50</b>

#### Project #3 Culvert Replacement

Move in Cost Excavator	\$400.00				
		<i>Cost / Hour</i>	<i>Hours</i>	<i>Cost</i>	
Excavator	\$	120.00	6.0	\$ 720.00	
Operator	\$	26.50	6.0	\$ 159.00	
				<b>Total Cost</b>	<b>\$ 879.00</b>

Quote from J.W. Kerns,  
Klamath Falls, OR.  
6/3/10

18" x 54' Polyethylene Culvert	\$ 825.00
10 tons 3/4- bedding rock (delivered)	\$ 120.00
10 tons 1 1/2" surface rock (delivered)	\$ 120.00
Grader to spread surface rock (2 hours)	\$ 265.00
Labor for Culvert (2 hours * \$30.00/hour)	\$ 60.00
Culvert Disposal	\$ 100.00
Water source (Fire Season)	<u>\$ 100.00</u>
<b>Total Cost for Culvert Repair:</b>	<b>\$ 1,590.00</b>



# ***BOONDOGGLE***

***341-11-25***  
***Cruise Report***



"STEWARDSHIP IN FORESTRY"

**SALE NAME:** Boondoggle.

**LEGAL DESCRIPTION:**

Township 37S, R12 E, Portions of Sections 29, 30, & 31, W.M. Klamath County, OR.

**BOUNDARY LINES:**

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

**FUND:**

100% C.S.L.

**ACREAGE:**

The timber sale was delineated into 2 types based on differences in stocking and volume. Road 830-00 was the approximate boundary between the types.

Type 402A 147 Acres

Type 402B 180 Acres

Approximate Total Sale Acreage:327 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 diameter limit cut, with all unmarked white fir greater than 10.0 inches dbh and 50% or greater net sawlog volume to be cut. All white fir less than 10.0 inches dbh, all white fir greater than 30.0 inches dbh, and all orange painted white fir are reserved from cutting in the sale area. A minimal amount of ponderosa pine is cut tree marked with blue paint, all other pine is reserved from cutting.

**CRUISE METHOD:**

Variable Plot cruise with all the plots being measure plots.

**BASAL AREA FACTOR:**

Type	BAF	Type Acreage
402A	14 BAF	147 acres
402B	10 BAF	180 acres

**PLOT DESIGNATION:**

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

**SAMPLE SIZE CALCULATIONS:**

TYPE	CV%	DESIRED SE%	ACRES
402A	65	15	147
402B	70	15	180

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

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

Type 402A       $N = \frac{(1)^2(65)^2}{(15)^2} = 19 \text{ plots}$       Took 19 plots

Type 403A       $N = \frac{(1)^2(70)^2}{(15)^2} = 22 \text{ plots}$       Took 24 plots

Measurements and Grading:

- DBH and Height were measured on all “in” trees in the plot.
- All plots were measure plots.
- See attached species and grade tables for minimum requirements.
- All trees were graded using the segment system.

**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:**

10.0 inches dbh.

**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 and Chris Weekly, Feb. 2010.

**FINAL CRUISE RESULTS:**

TYPE	CV%	SE%	ACRES
402A	75	17.7	147
402B	100	21	180
COMBINED	88	13.5	327

## TIMBER DESCRIPTION

### **SAWLOG VOLUME:**

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

### TOTAL SAWLOG VOLUME

SPECIES	AVE. DBH	GROSS VOL (MBF)	NET VOL (MBF)
White Fir	15.4	1921	1896

**TOTAL NET SAWLOG VOLUME: 1896 MBF**

TC TSTATS				STATISTICS				PAGE 1		
				PROJECT BDOGGLE				DATE 3/3/2010		
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
37S	12E	30	COMBO	AB	327.00	43	205	1	E	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
				TREES	TREES	TREES				
TOTAL		43	205	4.8						
CRUISE		39	205	5.3	14,340		1.4			
DBH COUNT										
REFOREST										
COUNT										
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
WHITE F	205	43.9	15.4	43	11	57.1	5,875	5,797	1,357	1,357
<b>TOTAL</b>	<b>205</b>	<b>43.9</b>	<b>15.4</b>	<b>43</b>		<b>57.1</b>	<b>5,875</b>	<b>5,797</b>	<b>1,357</b>	<b>1,357</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		
WHITE F	99.4	6.9	203	218	233					
<b>TOTAL</b>	<b>99.4</b>	<b>6.9</b>	<b>203</b>	<b>218</b>	<b>233</b>	<b>394</b>	<b>99</b>	<b>44</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		
WHITE F	81.9	5.7	45	47	50					
<b>TOTAL</b>	<b>81.9</b>	<b>5.7</b>	<b>45</b>	<b>47</b>	<b>50</b>	<b>268</b>	<b>67</b>	<b>30</b>		
CL: 68.1 %	COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
WHITE F	89.0	13.6	38	44	50					
<b>TOTAL</b>	<b>89.0</b>	<b>13.6</b>	<b>38</b>	<b>44</b>	<b>50</b>	<b>317</b>	<b>79</b>	<b>35</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		
WHITE F	80.1	12.2	50	57	64					
<b>TOTAL</b>	<b>80.1</b>	<b>12.2</b>	<b>50</b>	<b>57</b>	<b>64</b>	<b>256</b>	<b>64</b>	<b>28</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		
WHITE F	88.4	13.5	5,016	5,797	6,578					
<b>TOTAL</b>	<b>88.4</b>	<b>13.5</b>	<b>5,016</b>	<b>5,797</b>	<b>6,578</b>	<b>312</b>	<b>78</b>	<b>35</b>		
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		
WHITE F	84.9	12.9	1,181	1,357	1,532					
<b>TOTAL</b>	<b>84.9</b>	<b>12.9</b>	<b>1,181</b>	<b>1,357</b>	<b>1,532</b>	<b>288</b>	<b>72</b>	<b>32</b>		

Species, Sort Grade - Board Foot Volumes (Project)

T37S R12E S30 TyAB 327.00

Project: BDOGGLE  
Acres 327.00

Page 1  
Date 3/9/2010  
Time 11:17:39AM

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	CR	100	1.3	5,875	5,797	1,896	29	47	25	11	12	77	27	107	0.91	54.3		
WF Totals			100	1.3	5,875	5,797	1,896	29	47	25	11	12	77	27	107	0.91	54.3		
Totals				1.3	5,875	5,797	1,896	29	47	25	11	12	77	27	107	0.91	54.3		

Species Table Report

TblSpecies

Date: 03/09/2010  
Page: 1

Table Name: SUNPASS

Code	Abrv	Description	Bark Ratio	A Subo Const	Form Factor	Wood Type	Component	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	C	C	PP-EQUA-100	3	9	20	1.0	99	200	E 1	4800	
2	WF	WHITE F	.94	NF	.87	C	C	DF-EQUA-050	3	9	20	1.0	99	200	E 1	5000	
3	LP	LP PINE	.96	DF	.9	C	C	LP-EQUA-100	3	9	20	1.0	99	200	E 1	4800	
4	DF	DOUG-FIR	.92	DF	.87	C	C	DF-EQUA-050	3	9	20	1.0	99	200	E 1	5700	
5	SP	SUG PINE	.87	PP	.84	C	C	PP-EQUA-100	3	9	20	1.0	99	200	E 1	4800	
6	IC	INC CED	.90	SS	.8	C	C	DF-EQUA-050	3	9	20	1.0	99	200	E 1	4500	
7	RF	SH RFIR	.924	DF	.89	C	C	DF-EQUA-050	3	9	20	1.0	99	200	E 1	5000	

Sort/Grade Table

TblSortGrade

Table Name: SUNPASS

Date: 03/09/2010

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 NO. 341-11-25

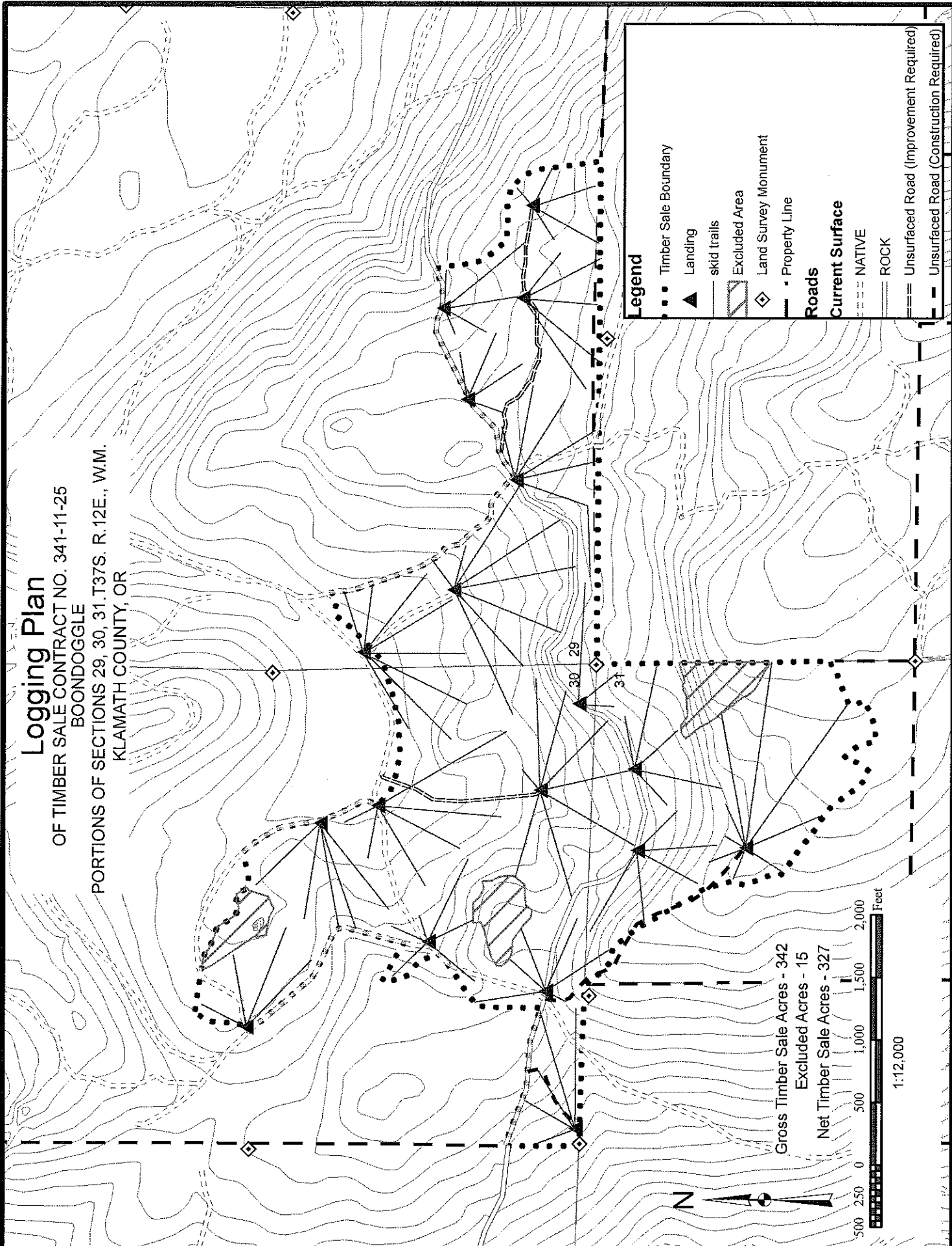
BOONDOGGLE

PORTIONS OF SECTIONS 29, 30, 31, T37S. R. 12E., W.M.

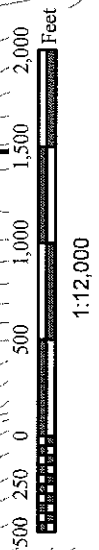
KLAMATH COUNTY, OR

**Legend**

- Timber Sale Boundary
- Landing
- skid trails
- Excluded Area
- Land Survey Monument
- Property Line
- Roads**
  - Current Surface
  - NATIVE
  - ROCK
  - Unsurfaced Road (Improvement Required)
  - Unsurfaced Road (Construction Required)



Gross Timber Sale Acres - 342  
Excluded Acres - 15  
Net Timber Sale Acres - 327



1:12,000