



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal  
Leaning Towers of Baber  
Sale 341-14-07

District: West Oregon

Date: August 12, 2013

**cost summary**

	<b>Conifer</b>	<b>Hardwood</b>	<b>Total</b>
<b>Gross Timber Sale Value</b>	\$736,106.25	\$0.00	\$736,106.25
		<b>Project Work:</b>	\$(36,449.00)
		<b>Advertised Value:</b>	\$699,657.25



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District: West Oregon

Date: August 12, 2013

## timber description

Location: Portions of Section 9, T11S, R9W, W.M., Lincoln County, Oregon.

Stand Stocking: 20%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	27	0	100

Volume by Grade	2S	3S	4S	Total
Douglas - Fir	1,904	427	34	2,365
Total	1,904	427	34	2,365



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comments: Pond Values Used: 2nd Quarter Calendar Year 2013.

Western Hemlock and Other Conifers Stumpage Price = Pond Value  
minus Logging Cost:  
\$200/MBF = \$480/MBF - \$280/MBF

Western redcedar and Other Cedars Stumpage Price = Pond Value  
minus Logging Cost (NOTE: Cedar must be scaled)  
\$670/MBF = \$950/MBF - \$280/MBF

Red Alder and Other Hardwoods Stumpage Price = Pond Value minus  
Logging Cost:  
\$170/MBF = \$450/MBF - \$280/MBF

SCALING COST ALLOWANCE = \$5.00/MBF

FUEL COST ALLOWANCE = \$4.00/Gallon

LOG HAUL:  
Conifer costed to Philomath.  
Hardwood costed to Eugene.

HAULING COST ALLOWANCE  
Hauling costs equivalent to \$780 daily truck cost.

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

Other Costs (No Profit & Risk added):  
Equipment Cleaning (Invasive Species Prevention) = \$2,000  
Snag Creation: 41 snags @ \$75 ea = \$3,075  
Down Wood: 41 trees~2 fallers x \$430/day = \$860  
Firewood Sorting: 2 landings x \$100 landing = \$200  
TOTAL Other Costs (No Profit & Risk added) = \$6,135

SLASH DISPOSAL  
Move-in: \$500  
Project Work: 54 hrs @ \$125/hr = \$7,250  
TOTAL Slash Disposal = \$8,000



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## logging conditions

<b>combination#:</b> 1	Douglas - Fir	40.00%
<b>yarding distance:</b>	Long (1,500 ft)	<b>downhill yarding:</b> No
<b>logging system:</b>	Cable: Large Tower >=70	<b>Process:</b> Manual Falling/Delimiting
<b>tree size:</b>	Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF	
<b>loads / day:</b>	8.0	<b>bd. ft / load:</b> 4,000
<b>cost / mbf:</b>	\$115.42	
<b>machines:</b>	Log Loader (A) Tower Yarder (Large)	
<b>combination#:</b> 2	Douglas - Fir	60.00%
<b>yarding distance:</b>	Short (400 ft)	<b>downhill yarding:</b> No
<b>logging system:</b>	Shovel	<b>Process:</b> Manual Falling/Delimiting
<b>tree size:</b>	Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF	
<b>loads / day:</b>	5.0	<b>bd. ft / load:</b> 4,000
<b>cost / mbf:</b>	\$125.23	
<b>machines:</b>	Shovel Logger	



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 Sale 341-14-07

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**logging costs**

Operating Seasons:	2.00	Profit Risk:	10.00%
Project Costs:	\$36,449.00	Other Costs (P/R):	\$0.00
Slash Disposal:	\$7,250.00	Other Costs:	\$6,135.00

**Miles of Road**

				Road Maintenance:	\$2.19
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	2.0	3.0



Timber Sale Appraisal  
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**logging costs breakdown**

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
<b>Douglas - Fir</b>									
\$121.31	\$2.19	\$3.71	\$118.18	\$0.00	\$24.54	\$3.07	\$5.00	\$2.59	\$280.59

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$591.84	\$311.25	\$0.00



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**summary**

**Amortized**

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00

**Unamortized**

Specie	MBF	Value	Total
Douglas - Fir	2,365	\$311.25	\$736,106.25

**Gross Timber Sale Value**

Recovery: \$736,106.25

Prepared by: Jim Doyal

Phone: 541-929-3266

## SUMMARY OF ALL PROJECT COSTS

**Sale Name:** Leaning Towers of Baber

**Date:** June 2013

**Time:** 12:14

### **Project #1 - New Construction**

<u>Road Segment</u>	<u>Length</u>	<u>Cost</u>
C to C1	9.6 sta	\$12,759

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<b>TOTALS</b>	9.6 sta	\$12,759
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### **Project #2 - Improvements**

<u>Road Segment</u>	<u>Length</u>	<u>Cost</u>
A to A1	192.2 sta	\$11,456
B to B1	18.5 sta	\$10,939

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<b>TOTALS</b>	210.7 sta	\$22,395
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### **Move in**

	<u>Cost</u>	<u>On-site move</u>
Crawler tractor, D-7 or equiv.	\$488	
Grader, Cat 14-G or equiv.	\$304	
Water Truck	\$199	
Vibratory roller	\$304	\$0

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<b>TOTAL</b>		\$1,295
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**GRAND TOTAL**

**\$36,449**

Compiled by J. Doyal

Date 06/14/2013



## SUMMARY OF CONSTRUCTION COST

SALE Leaning Towers of Baber - Project #2 LENGTH improve 192.2 sta  
ROAD A to A1

### IMPROVEMENT

Shape surface 192.2 sta. @ \$13.75 /sta = \$2,643  
(with road grader)

TOTAL IMPROVEMENT \$2,643

### SURFACING

Spot rock 360 cy of Size 3-0" Cost/yd \$24.48 = \$8,813  
(100 cy/mi)

TOTAL ROCK COST = \$8,813

Compiled by: J. Doyal  
Date: Jun 14, 2013

**GRAND TOTAL =====> \$11,456**

## SUMMARY OF CONSTRUCTION COST

SALE Leaning Towers of Baber - Project #2 LENGTH improve 18.5 sta  
ROAD B to B1

### IMPROVEMENT

Shape surface 18.5 sta. @ \$9.90 /sta = \$183  
(with road grader)

TOTAL IMPROVEMENT \$183

### SURFACING

Surface rock (4"lift) 414 cy of Size 3-0" Cost/yd \$25.98 = \$10,756

TOTAL ROCK COST = \$10,756

Compiled by: J. Doyal  
Date: Jun 14, 2013

**GRAND TOTAL =====> \$10,939**

**SUMMARY OF CONSTRUCTION COST**

SALE      Leaning Towers of Baber - Project #1                      LENGTH improve                      9.6 sta  
ROAD      C to C1

**CLEARING AND GRUBBING**

0.53 acres	@	\$1,313.31 /acre	=	\$696 road
0.20 acres	@	\$1,010.24 /acre	=	\$202 landings

TOTAL CLEARING AND GRUBBING =                      \$898

**EXCAVATION**                      With D7 dozer or equivalent

Construct road	9.6 sta.	@	\$74.28 /sta.	=	\$713	
Construct landings	2 hr.	@	\$135.80 /hr.	=	\$272	(2 landings)
Shape subgrade (with road grader)	9.6 sta.	@	\$11.55 /sta	=	\$111	
Compact subgrade (with vibratory roller)	9.6 sta.	@	\$8.31 /sta	=	\$80	

TOTAL EXCAVATION =                      \$1,176

**SURFACING**

		Size	Cost/yd		
Base rock	423 cy of	Pit Run	\$23.28	=	\$9,847
Landing rock	36 cy of	Pit Run	\$23.28	=	\$838

TOTAL ROCK COST =                      \$10,685

Compiled by:                      J. Doyal  
Date:                                      Jun 14, 2013

**GRAND TOTAL =====>                      \$12,759**

### Rock Haul Cost Computation

SALE NAME: DATE: Jun 14, 2013  
 ROAD NAME: CLASS: Medium  
 ROCK SOURCE: 18 CY truck  
 Route:

TIME Computation:

Road speed time factors:

1.	55 MPH	MRT	0.0 minutes
2.	50 MPH	MRT	0.0 minutes
3.	45 MPH	MRT	0.0 minutes
4.	40 MPH	MRT	0.0 minutes
5.	35 MPH	MRT	0.0 minutes
6.	30 MPH	60.8 MRT	121.6 minutes
7.	25 MPH	MRT	0.0 minutes
8.	20 MPH	MRT	0.0 minutes
9.	15 MPH	MRT	0.0 minutes
10.	10 MPH	MRT	0.0 minutes
11.	05 MPH	MRT	0.0 minutes

Dump or spread time per RT 0.50 minutes  
 Total hauling cycle time for this setting  
 (100% efficiency) 122.10 minutes

Operator efficiency correction 0.85 143.65 minutes  
 Job efficiency correction 0.90 159.61 minutes

Truck capacity (CY) 18.00 8.87 min/CY  
 Loading time, delay time per CY 0.25 min/CY  
 TIME (minutes) per cubic yard 9.12 min/CY

COST per CY computation

Cost of truck and operator per hour \$90.22 /hr.  
 Cost of truck and operator per minute \$1.50 /min

Cost per CY \$13.68 /CY

Spread and compact Water truck, Grader & Roller \$1.50 /CY

Size	Cost/Yd (Pit)	Cost Delivered w/o processing	Cost Delivered with processing
1½ - 0"	\$11.14	\$24.82	\$26.32
3 - 0"	\$10.80	\$24.48	\$25.98
Jaw Run	\$9.11	\$22.79	\$24.29
Pit Run	\$8.10	\$21.78	\$23.28

*Note: Pit costs April 2010 Wild Rose Quarry*

**Leaning Towers of Baber  
(341-14-07)  
FY 2013**

**TIMBER CRUISE REPORT**

1. **Sale Area Location:** Portions of Section 9, T11S, R9W, W.M., Lincoln County, Oregon

2. **Fund Distribution:**

a. **Fund** BOF 100%; CSL 0%

b. **Tax Code**

3. **Sale Acreage by Area:**

Area	Treatment	Gross Acres	Acreage Adjustment	Net Acres	Acreage Comp. Method	Closure
I	Modified Clearcut	46	Gross Acre	41	Ortho photo, GIS, GPS	n/a

4. **Cruisers and Cruise Dates:** The sale area was cruised by Jim Doyal in the spring of 2013.

5. **Cruise Method and Computation:** The sale area is a modified clearcut and was cruised using variable plots. The cruise used a 40 BAF with plots on a 300' by 300' grid. Every third plot was measured and graded. A total of 21 plots were sampled, with 14 measured and graded plots. All species on measure plots were graded and defect was assessed. This was a gross acre cruise.

Data was recorded on cruise cards in field notebooks and manually entered into Atterbury Super A.C.E. -Version 2.40. Stereo photos, digital ortho photos, LiDar data, and GPS data from a Garmin GPSMap 60CSx was used to map the boundaries for the sale and ArcMap 10.1 was used to determine gross acreage.

6. **Timber Description:** The sale is a naturally seeded 89 year-old stand of Douglas-fir. The Douglas-fir averages 27 inches DBH.

7. **Statistical analysis and stand summary:** (See attached "Statistics" and "Stand Table Summary")

Area	Target CV	Target SE%	Actual CV	Actual SE%
I	60%	11%	10.6	2.4

NOTE: Statistics shown are for Douglas-fir and red alder take and leave trees combined. Percentages are for Net BF volume, see attached "Project Statistics" and "Type Statistics" for other values.

8. **Total Volume (MBF) by Species and Log Size:** (See attached "Stand Table Summary" and "Log Stock Table").

Species	DBH	Net Vol. <sup>1</sup>	2-Saw	3-Saw	4-Saw	Camprun	% D & B
Douglas-fir	27"	2365	1904	427	34	--	3

<sup>1</sup> Net volumes are after defect and breakage have been deducted.

TC PSTATS		PROJECT STATISTICS							PAGE	1
		PROJECT		LTB			DATE		6/26/2013	
TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
11S	09	09	LTB	0001	46.00	21	146	1	W	
		PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES				
TOTAL		21	146	7.0						
CRUISE		14	67	4.8	2,985	2.2				
DBH COUNT REFOREST COUNT		7	48	6.9						
BLANKS 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
DF-T	67	64.9	26.8	91	52	253.3	59,978	59,473	12,817	12,817
<b>TOTAL</b>	<b>67</b>	<b>64.9</b>	<b>26.8</b>	<b>91</b>		<b>253.3</b>	<b>59,978</b>	<b>59,473</b>	<b>12,817</b>	<b>12,817</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	
DF-T		73.9	9.0	1,596	1,754	1,912				
<b>TOTAL</b>		<b>73.9</b>	<b>9.0</b>	<b>1,596</b>	<b>1,754</b>	<b>1,912</b>	<b>218</b>	<b>54</b>	<b>24</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	
DF-T		64.6	7.9	334	363	392				
<b>TOTAL</b>		<b>64.6</b>	<b>7.9</b>	<b>334</b>	<b>363</b>	<b>392</b>	<b>167</b>	<b>42</b>	<b>19</b>	
CL	68.1	COEFF	TREES/ACRE			# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
DF-T		52.0	11.6	57	65	72				
<b>TOTAL</b>		<b>52.0</b>	<b>11.6</b>	<b>57</b>	<b>65</b>	<b>72</b>	<b>113</b>	<b>28</b>	<b>13</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	
DF-T		16.8	3.8	244	253	263				
<b>TOTAL</b>		<b>16.8</b>	<b>3.8</b>	<b>244</b>	<b>253</b>	<b>263</b>	<b>12</b>	<b>3</b>	<b>1</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	
DF-T		10.6	2.4	58,061	59,473	60,885				
<b>TOTAL</b>		<b>10.6</b>	<b>2.4</b>	<b>58,061</b>	<b>59,473</b>	<b>60,885</b>	<b>5</b>	<b>1</b>	<b>1</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	
DF-T		12.4	2.8	12,460	12,817	13,173				
<b>TOTAL</b>		<b>12.4</b>	<b>2.8</b>	<b>12,460</b>	<b>12,817</b>	<b>13,173</b>	<b>6</b>	<b>2</b>	<b>1</b>	

Species, Sort Grade - Board Foot Volumes (Project)

T11S R09W S09 Ty0001      46.00	<b>Project:    LTB</b> <b>Acres        46.00</b>	<b>Page        1</b> <b>Date      6/26/2013</b> <b>Time      7:20:12AM</b>
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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
									Log Scale Dia.				Log Length				Ln Ft	Bd Ft	CF/ Lf	
									4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99				
DF	T	CU															10		0.00	1.8
DF	T	2M	80		.9	48,320	47,907	2,204			7	93			1	99	40	869	4.23	55.1
DF	T	3M	18		.8	10,813	10,722	493		44	46	9		0	8	92	38	149	1.17	71.9
DF	T	4M	2			844	844	39	38	62				41	52	7	20	23	0.42	36.1
<b>DF Totals</b>			100		.8	59,978	59,473	2,736	1	9	14	76	1	1	2	96	34	361	2.26	164.9
<b>Totals</b>					0.8	59,978	59,473	2,736	1	9	14	76	1	1	2	96	34	361	2.26	164.9

Log Stock Table - MBF

T11S R09W S09 Ty0001 46.00

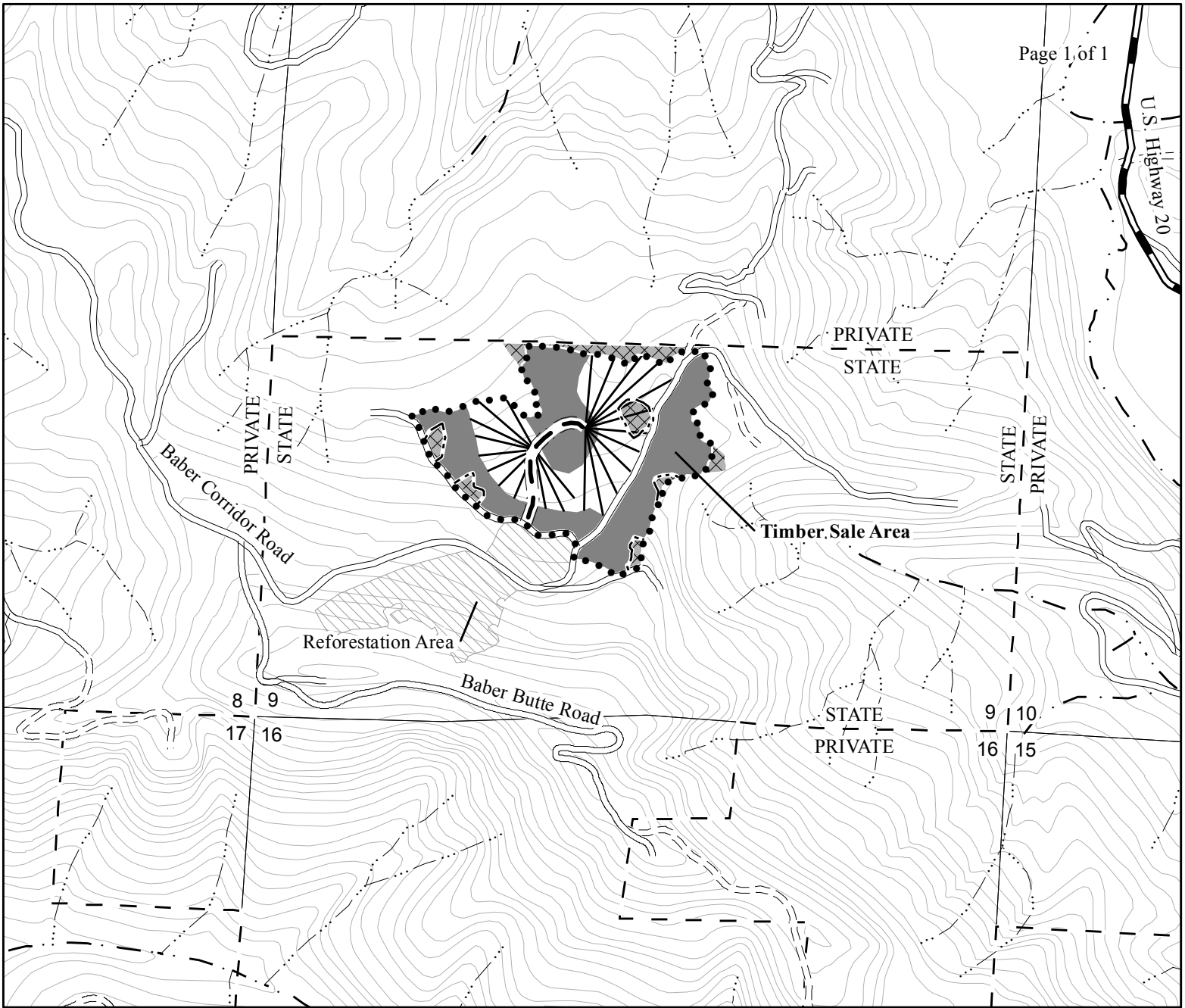
Project: LTB  
Acres 46.00

Spp	S T	So Gr rt 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+	
DF	T	2M	32	20		20	.7						20							
DF	T	2M	36	10		10	.4						10							
DF	T	2M	40	2,193		2,174	79.5						42	347	678	646	362	98		
DF	T	3M	26	2		2	.1			2										
DF	T	3M	32	16		16	.6		2			3		11						
DF	T	3M	33	5		5	.2		5											
DF	T	3M	34	12		12	.4		12											
DF	T	3M	35	6		6	.2		6											
DF	T	3M	36	13		13	.5		9	1	3									
DF	T	3M	37	8		8	.3		8											
DF	T	3M	38	31		31	1.1		17		3		11							
DF	T	3M	40	406	1.0	402	14.7		23	20	110	124	76	40	10					
DF	T	4M	12	3		3	.1		3											
DF	T	4M	13	2		2	.1		2											
DF	T	4M	14	2		2	.1		2											
DF	T	4M	15	2		2	.1		2											
DF	T	4M	16	1		1	.0		1											
DF	T	4M	17	1		1	.0		1											
DF	T	4M	18	2		2	.1		2											
DF	T	4M	19	1		1	.0		1											
DF	T	4M	20	2		2	.1		2											
DF	T	4M	22	0		0	.0		0											
DF	T	4M	23	3		3	.1		3											
DF	T	4M	25	1		1	.0		1											
DF	T	4M	26	15		15	.5	15												
DF	T	4M	28	1		1	.0		1											
DF	T	4M	30	1		1	.0		1											
DF	T	4M	33	3		3	.1		3											
DF		Totals		2,759		2,736	100.0		15	103	23	116	127	128	429	689	646	362	98	
Total		All Species		2,759		2,736	100.0		15	103	23	116	127	128	429	689	646	362	98	



TC PSTNDSUM		Stand Table Summary								Page 1					
T11S R09W S09 Ty0001 46.00		Project LTB				Date: 6/26/2013		Time: 6:48:57AM							
		Acres 46.00				Grown Year:									
S Spc T	Sample DBH	Trees	Tot		Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals		
			FF 16'	Av Ht				Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF
DFT	8	1	89	45	10.832	3.78	10.83	7.0	30.0		76	325		35	15
DFT	12	1	89	83	4.814	3.78	9.63	12.0	40.0		116	385		53	18
DFT	14	1	93	107	3.537	3.78	7.07	24.0	100.0		170	707		78	33
DFT	16	1	82	115	2.708	3.78	5.42	30.0	105.0		162	569		75	26
DFT	18	2	89	105	4.279	7.56	8.56	38.3	142.5		327	1,220		151	56
DFT	22	2	87	114	2.865	7.56	7.16	48.4	170.0		347	1,217		159	56
DFT	24	3	84	140	3.611	11.34	12.04	50.7	216.0		610	2,600		281	120
DFT	28	11	87	125	9.727	41.59	28.30	69.5	299.7		1,967	8,480		905	390
DFT	30	5	90	126	3.851	18.91	11.55	81.9	382.7		946	4,421		435	203
DFT	32	8	85	133	5.416	30.25	16.93	89.0	396.4		1,507	6,709		693	309
DFT	34	8	89	136	4.798	30.25	15.59	103.8	514.2		1,619	8,018		745	369
DFT	36	1	89	112	.535	3.78	1.60	106.7	476.7		171	765		79	35
DFT	40	5	90	141	2.166	18.91	7.80	133.5	683.9		1,041	5,334		479	245
DFT	42	2	84	125	.786	7.56	2.36	150.7	683.3		355	1,611		163	74
DFT	44	6	85	159	2.149	22.69	7.88	168.9	852.7		1,330	6,718		612	309
DFT	46	2	79	136	.655	7.56	2.29	160.4	708.6		368	1,625		169	75
DFT	48	4	87	146	1.204	15.12	4.51	185.8	942.0		839	4,252		386	196
DFT	50	1	82	150	.277	3.78	1.11	184.5	827.5		205	918		94	42
DFT	54	1	92	173	.238	3.78	.95	274.3	1595.0		261	1,517		120	70
DFT	56	2	87	153	.442	7.56	1.55	259.0	1345.7		401	2,082		184	96
DFT	Totals	67	88	110	64.890	253.33	163.13	78.6	364.6		12,817	59,473		5,896	2,736
Totals		67	88	110	64.890	253.33	163.13	78.6	364.6		12,817	59,473		5,896	2,736

U.S. Highway 20



Legend

Boundaries

- Timber Sale Boundary
- - - - Green Tree Retention Area (Posted)
- - - State Forest Property Boundary
- - - - Right of Way (Posted)

Roads

- ▬▬▬ Highway
- ▬▬▬ Surfaced Road
- ▬▬▬ Unsurfaced Road
- ▬▬▬ New Road Construction

Streams

- - · - · Type F
- · · · · Type N

Yarding Method

- ▬▬▬ Tractor Yarding Area
- ▬▬▬ Cable Corridors
- ▨▨▨ Reforestation Area
- ▩▩▩ Green Tree Retention Area

# LOGGING PLAN

OF TIMBER SALE CONTRACT NO. 341-14-07  
 LEANING TOWERS OF BABER  
 PORTIONS OF SECTION 9, T11S, R9W, W.M.  
 LINCOLN COUNTY, OREGON

NET ACRES CABLE = 17  
 NET ACRES TRACTOR = 24

This product is for informational use and may not have been prepared for or be suitable for legal, engineering or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of this information.



Scale

1:12,000



Created By: Blake McKinley  
 bmckinley@odf.state.or.us  
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