Timber Sale Appraisal
Hot Plunkett
Sale WO-341-2017-44-

District: West Oregon **Date: November 09, 2016**

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	$1,704,276.99	$115,100.44	$1,819,377.43
		Project Work:	($84,357.00)
		Advertised Value:	$1,735,020.43

Timber Sale Appraisal
Hot Plunkett

Sale WO-341-2017-44-

District: West Oregon **Date: November 09, 2016**

Timber Description

Location: Portions of Sections 15, 21, and 22, T11S, R8W, W.M., Lincoln County, Oregon.

Stand Stocking: 80%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	23	0	90
Port Orford Cedar	12	0	90
Alder (Red)	14	0	90
Maple	20	0	70

Volume by Grade	2S	3S	4S	Camprun	Total
Douglas - Fir	2,925	870	158	0	3,953
Port Orford Cedar	0	0	18	0	18
Alder (Red)	0	0	0	313	313
Maple	0	0	0	21	21
Total	2,925	870	176	334	4,305

Comments: Pond Values Used: 3rd Quarter Calendar Year 2016 + September Local Pond Values.

Western Hemlock and Other Conifers Stumpage Price = Pond Value minus Logging Cost:
$344.93/MBF = $526.56/MBF - $181.63/MBF

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost:
$940.24/MBF= $1,354.18/MBF - $413.94/MBF

SCALING COST ALLOWANCE = $5.00/MBF

BRANDING AND PAINTING COST ALLOWANCE = $2.00/MBF

Log Haul:
Conifer costed to Eugene.
Hardwood costed to Eugene.
Port Orford cedar costed to Roseburg.

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

Other Costs (with Profit & Risk to be added):
Intermediate Supports/Tail Trees: 5 trees @ $100/tree = $500
TOTAL Other Costs (with Profit & Risk to be added) = $500

Other Costs (No Profit & Risk added):
Invasive Species Equipment Cleaning: $2,000
Firewood Sorting: 10 Landings @ $100/Landing = $1,000
Logger's Choice Road/Landing = $500
TOTAL Other Costs (No Profit & Risk added) = $3,500

SLASH DISPOSAL
Move-in: $750
Project Work: $6,000
TOTAL Slash Disposal = $6,750

Timber Sale Appraisal
Hot Plunkett

Sale WO-341-2017-44-

District: West Oregon **Date: November 09, 2016**

Logging Conditions

Combination#: 1

Douglas - Fir	58.04%
Port Orford Cedar	35.00%
Alder (Red)	85.03%
Maple	93.00%

Logging System: Cable: Large Tower >=70 **Process:** Stroke Delimber

yarding distance: Medium (800 ft) **downhill yarding:** No

tree size: Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF

loads / day: 12 **bd. ft / load:** 4600

cost / mbf: $112.32

machines: Log Loader (A)
Stroke Delimber (A)
Tower Yarder (Large)

Combination#: 2

Douglas - Fir	41.96%
Port Orford Cedar	65.00%
Alder (Red)	14.97%
Maple	7.00%

Logging System: Shovel **Process:** Stroke Delimber

yarding distance: Short (400 ft) **downhill yarding:** No

tree size: Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF

loads / day: 12 **bd. ft / load:** 4600

cost / mbf: $57.46

machines: Stroke Delimber (B)

Timber Sale Appraisal
Hot Plunkett
Sale WO-341-2017-44-

District: West Oregon **Date: November 09, 2016**

Logging Costs

Operating Seasons:	2.00	**Profit Risk:**	10%
Project Costs:	$84,357.00	**Other Costs (P/R):**	$500.00
Slash Disposal:	$6,750.00	**Other Costs:**	$3,500.00

Miles of Road

Road Maintenance: $2.69

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	3.0	4.6
Port Orford Cedar	$0.00	1.0	3.0
Alder (Red)	$0.00	2.0	3.5
Maple	$0.00	2.0	3.5

Timber Sale Appraisal
Hot Plunkett
Sale WO-341-2017-44-

District: West Oregon **Date: November 09, 2016**

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling / Brand & Paint	Other	Total
Douglas - Fir									
$89.30	$2.96	$2.04	$62.17	$0.12	$15.66	$1.57	$7.00	$0.81	$181.63
Port Orford Cedar									
$76.66	$2.96	$2.04	$286.00	$0.12	$36.78	$1.57	$7.00	$0.81	$413.94
Alder (Red)									
$104.11	$2.96	$2.04	$122.57	$0.12	$23.18	$1.57	$7.00	$0.81	$264.36
Maple									
$108.48	$3.50	$2.04	$144.86	$0.12	$25.90	$1.57	$7.00	$0.81	$294.28

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	$0.00	$612.10	$430.47	$0.00
Port Orford Cedar	$0.00	$560.00	$146.06	$0.00
Alder (Red)	$0.00	$625.00	$360.64	$0.00
Maple	$0.00	$400.00	$105.72	$0.00

Timber Sale Appraisal
Hot Plunkett
Sale WO-341-2017-44-

District: West Oregon **Date: November 09, 2016**

Summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	$0.00	$0.00
Port Orford Cedar	0	$0.00	$0.00
Alder (Red)	0	$0.00	$0.00
Maple	0	$0.00	$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	3,953	$430.47	$1,701,647.91
Port Orford Cedar	18	$146.06	$2,629.08
Alder (Red)	313	$360.64	$112,880.32
Maple	21	$105.72	$2,220.12

Gross Timber Sale Value

Recovery: $1,819,377.43

Prepared By: Matt McBride **Phone:** 360-929-2366

SUMMARY OF ALL PROJECT COSTS

Sale Name: Hot Plunkett Date: September 2016

Project #1 - New Construction

Road Segment		Length	Cost	
1A to 1B	(dirt road)	1.9 sta	$888	
1C to 1D	(dirt road)	3.7 sta	$1,451	
1E to 1F		2.0 sta	$3,516	
1G to 1H		2.0 sta	$3,516	
2A to 2B		5.0 sta	$7,377	
2C to 2D	(dirt road)	5.5 sta	$2,411	
	TOTALS	20.1 sta	$19,159	$19,159

Project #2 - Improvements

Road Segment		Length	Cost	
I2 to I3		58.0 sta	$8,815	
I3 to I4		19.0 sta	$9,583	
I7 to I8		77.9 sta	$556	
I9 to 2C	(dirt road)	16.5 sta	$886	
I11 to I12	(dirt road)	36.8 sta	$1,233	
I13 to I14	(dirt road)	2.7 sta	$67	
	TOTALS	210.9 sta	$21,140	$21,140

Project #3 - Roadside Brushing

Length		Cost	
12.93	miles	$14,223	$14,223

Project #4 - Roadside Spraying

Length		Cost	
13.25	miles	$2,253	$2,253

Project #5 - Stockpile Construction

1 1/2-0"		Cost	
1,000	Cy	$16,772	$16,772

Project Work Road Maintenance
(Burnt Woods Ridge Rd.) $5,152

Move in	Cost	On-site move	
Excavator, C325 or equv.	$1,290	$258	
Dozer, D-8 or equiv.	$1,406	$316	
Grader, G14 or equiv.	$778		
Brush cutter	$321		
Backhoe	$321		
Vibratory roller	$778		
Water Truck	$190		
TOTAL			$5,658

GRAND TOTAL **$84,357**

Compiled by J. Long Date 09/22/2016

SUMMARY OF CONSTRUCTION COST

SALE Hot Plunkett Project # 1 LENGTH const 1.9 sta
ROAD 1A to 1B (dirt spur)

CLEARING AND GRUBBING

0.20	acres	@	$1,337.00	/acre	=	$267

TOTAL CLEARING AND GRUBBING = $267

EXCAVATION With D8 dozer or equivalent

Balanced Construction	1.9 sta	@	$122.00	/sta	=	$232
Landing Construction	1 Ldg	@	$316.00	/ldg	=	$316
Grade/shape surface	1.9 sta	@	$18.35	/sta	=	$35
Compact subgrade (with vibratory roller)	1.9 sta	@	$20.19	/sta	=	$38

TOTAL EXCAVATION = $621

Compiled by: J. Long
Date: Sep 22, 2016

GRAND TOTAL =====> $888

SUMMARY OF CONSTRUCTION COST

SALE Hot Plunkett Project # 1 LENGTH const 3.7 sta
ROAD 1C to 1D (dirt spur)

CLEARING AND GRUBBING

0.40	acres	@	$1,337.00	/acre	=	$535

TOTAL CLEARING AND GRUBBING = $535

EXCAVATION With D8 dozer or equivalent

Balanced Construction	3.7 sta	@	$122.00	/sta	=	$451
Landing Construction	1 Ldg	@	$316.00	/ldg	=	$316
Grade/shape surface	3.7 sta	@	$18.35	/sta	=	$68
Compact subgrade (with vibratory roller)	4 sta	@	$20.19	/sta	=	$81

TOTAL EXCAVATION = $916

Compiled by: J. Long
Date: Sep 22, 2016

GRAND TOTAL =====> $1,451

SUMMARY OF CONSTRUCTION COST

SALE Hot Plunkett Project # 1 LENGTH const 2 sta
ROAD 1E to 1F

CLEARING AND GRUBBING

0.30	acres	@	$1,337.00	/acre	=	$401

TOTAL CLEARING AND GRUBBING = $401

EXCAVATION Medium size excavator (C325) and D8 cat or equivalent

Balanced Construction	2 sta	@	$190.00	/sta	=	$380
Landing Construction (Pt. 1F)	1 Ldg	@	$316.00	/ldg	=	$316

Subgrade Prep

Grade/shape surface (with road grader)	2.0 sta	@	$18.35	/sta	=	$37
Compact subgrade (with vibratory roller)	2.0 sta	@	$20.19	/sta	=	$40

TOTAL EXCAVATION = $773

SURFACING

			Size	Cost/yd		
Surface rock (8"lift)	88	cy of	Jaw Run	$15.49	=	$1,363
Junction rock	20	cy of	Jaw Run	$15.49	=	$310
Landing Rock	40	cy of	Jaw Run	$15.49	=	$620
Process/compact rock (with vibratory roller)	2.0 sta	@	$24.28	/sta	=	$49

TOTAL ROCK COST = $2,342

Compiled by: J. Long
Date: Sep 22, 2016

GRAND TOTAL =====> $3,516

SUMMARY OF CONSTRUCTION COST

SALE Hot Plunkett Project # 1 LENGTH const 2 sta
ROAD 1G to 1H

CLEARING AND GRUBBING

0.30	acres	@	$1,337.00	/acre	=	$401

TOTAL CLEARING AND GRUBBING = $401

EXCAVATION Medium size excavator (C325) and D8 cat or equivalent

Balanced Construction	2 sta	@	$190.00	/sta	=	$380
Landing Construction (Pt. 1H)	1 Ldg	@	$316.00	/ldg	=	$316

Subgrade Prep

Grade/shape surface (with road grader)	2.0 sta	@	$18.35	/sta	=	$37
Compact subgrade (with vibratory roller)	2.0 sta	@	$20.19	/sta	=	$40

TOTAL EXCAVATION = $773

SURFACING

			Size	Cost/yd		
Surface rock (8"lift)	88	cy of	Jaw Run	$15.49	=	$1,363
Junction rock	20	cy of	Jaw Run	$15.49	=	$310
Landing Rock	40	cy of	Jaw Run	$15.49	=	$620
Process/compact rock (with vibratory roller)	2.0 sta	@	$24.28	/sta	=	$49

TOTAL ROCK COST = $2,342

Compiled by: J. Long
Date: Sep 22, 2016

GRAND TOTAL =====> $3,516

SUMMARY OF CONSTRUCTION COST

SALE Hot Plunkett Project # 1 LENGTH const 5 sta
ROAD 2A to 2B

CLEARING AND GRUBBING

0.60	acres	@	$1,337.00	/acre	=	$802	
				TOTAL CLEARING AND GRUBBING =			$802

EXCAVATION Medium size excavator (C325) and D8 cat or equivalent

Drift earth up to 200'	5 sta	@	$190.00	/sta	=	$950	
Landing Construction	2 Ldg	@	$316.00	/ldg	=	$632	

SUBGRADE PREP

Shape subgrade (with road grader)	5.0 sta	@	$24.83	/sta	=	$124	
Compact subgrade (with vibratory roller)	5.0 sta	@	$20.19	/sta	=	$101	
				TOTAL EXCAVATION =			$1,807

SURFACING

			Size	Cost/yd			
Surface rock (8"lift) (Sta. 0+00 to 5+00)	220	cy of	Jaw Run	$15.49	=	$3,408	
Landing Rock	80	cy of	Jaw Run	$15.49	=	$1,239	
Process/compact rock (with vibratory roller)	5	sta. @	$24.28	/sta	=	$121	
				TOTAL SURFACING =			$4,768

Compiled by: J. long
Date: Sep 22, 2016

GRAND TOTAL =====> $7,377

SUMMARY OF CONSTRUCTION COST

SALE Hot Plunkett Project # 1 LENGTH const 5.5 sta
ROAD 2C to 2D (dirt spur)

CLEARING AND GRUBBING

0.60	acres	@	$1,337.00	/acre	=	$802

TOTAL CLEARING AND GRUBBING = $802

EXCAVATION Medium size excavator (C325) and D8 cat or equivalent

Balanced Construction	5.5	sta	@	$190.00	/sta	= $1,045
Landing Construction	1	Ldg	@	$316.00	/ldg	= $316

Subgrade Prep

Grade/shape surface (with road grader)	5.50	sta	@	$24.83	/sta	= $137
Compact subgrade (with vibratory roller)	5.50	sta	@	$20.19	/sta	= $111

TOTAL EXCAVATION = $1,609

Compiled by: J. Long
Date: Sep 22, 2016

GRAND TOTAL =====> $2,411

SUMMARY OF CONSTRUCTION COST

SALE	Hot Plunkett		Project #	2	LENGTH	improve		58.0 sta
ROAD	I2 to I3							

SUBGRADE PREP

Grade/shape surface (with road grader)	58.0	sta	@	$24.83	/sta	=	$1,440	
Pull ditch and scatter waste material	30.0	sta	@	$12.41	/sta	=	$372	
					SUB TOTAL			$1,812

SURFACING

				Size	Cost/yd			
Turnout rock (8)	80	cy of		1½-0"	$18.15	=	$1,452	
Landing rock (2)	80	cy of		Jaw run	$15.49	=	$1,239	
Spot rock	160	cy of		1½-0"	$18.15	=	$2,904	
Process/compact rock (with vibratory roller)	58	sta.	@	$24.28	/sta	=	$1,408	
					TOTAL ROCK COST =			$7,003

Compiled by: J. Long

Date: Sep 22, 2016

GRAND TOTAL =====> **$8,815**

SUMMARY OF CONSTRUCTION COST

SALE	Hot Plunkett		Project #	2	LENGTH	improve		19 sta
ROAD	I3 to I4							

Subgrade Prep

Grade/shape surface (with road grader)	19.0 sta	@	$24.83	/sta	=	$472	
Compact subgrade	19.0 sta	@	$20.19	/sta	=	$384	
				Sub total			$856

SURFACING			Size	Cost/yd			
Surface rock (3"lift)	360	cy of	1½-0"	$18.15	=	$6,534	
Turnout rock (2)	20	cy of	1½-0"	$18.15	=	$363	
Leveling rock	80	cy of	3-0"	$16.49	=	$1,319	
Process/compact rock (with vibratory roller)	19	sta. @	$24.28	/sta	=	$461	
				TOTAL ROCK COST =			$8,677

SPECIAL PROJECTS

Clean out culverts (inlets and outlets)	2	culverts	@	$25.00	ea =	$50	
				TOTAL SPECIAL PROJECTS COST =			$50

Compiled by:	J. Long		
Date:	Sep 22, 2016	**GRAND TOTAL =====>**	**$9,583**

SUMMARY OF CONSTRUCTION COST

SALE	Hot Plunkett		Project #	2	LENGTH	improve		77.9	sta.
ROAD	I7 to I8								

IMPROVEMENT

Clear landing at sta. 28+60 (with road grader)	1.0	hr	@	$90.75	/hr	=	$91	
								$91

SURFACING

				Size	Cost/yd			
Landing rock (sta. 28+60)	30	cy of		jaw-run	$15.49	=	$465	
					TOTAL ROCK COST =			$465

Compiled by:	J. Long		
Date:	Sep 22, 2016	**GRAND TOTAL =====>**	**$556**

SUMMARY OF CONSTRUCTION COST

SALE Hot Plunkett Project # 2 LENGTH improve 16.5 sta.
ROAD I9 to 2C (dirt spur)

IMPROVEMENT

Re-open road & landing (with Dozer)	16.5	sta	@	$24.76	/sta	=	$409
							$409

SURFACING

				Size	Cost/yd		
Junction rock (0+00 to 0+50)	30	cy of		jaw-run	$15.49	=	$465
Grade/compact rock	0.5	sta.	@	$24.28	/sta	=	$12
					TOTAL ROCK COST =		$477

Compiled by: J. Long
Date: Sep 22, 2016

GRAND TOTAL =====> $886

SUMMARY OF CONSTRUCTION COST

SALE Hot Plunkett Project # 2 LENGTH improve 36.8 sta.
ROAD I11 to I12 (dirt spur)

IMPROVEMENT

Re-open road & landing (with Dozer)	36.8	sta	@	$24.76	/sta	=	$911	$911

SURFACING

				Size	Cost/yd			
Junction rock (0+00 to 0+50)	20	cy of		jaw-run	$15.49	=	$310	
Grade/compact rock	0.5	sta. @		$24.28	/sta	=	$12	
					TOTAL ROCK COST =			$322

Compiled by: J. Long
Date: Sep 22, 2016

GRAND TOTAL =====> $1,233

SUMMARY OF CONSTRUCTION COST

SALE ROAD: Hot Plunkett I13 to I14 (dirt spur) | Project # 2 | LENGTH improve 2.7 sta.

IMPROVEMENT

Re-open road (with Dozer)	2.7 sta	@	$24.76	/sta	=	$67

TOTAL IMPROVEMENT = $67

Compiled by: J. Long
Date: Sep 22, 2016

GRAND TOTAL =====> $67

Hot Plunkett Timber Sale
No. 341-17-44

Project No. 3

Mechanical Brushing Costs

Date: 09/07/16

Road Segment/ Point	Road Name	Length (Feet)	Miles	Brush Density	Cost / Mile	Segment Cost
I2-I29	Burnt Woods	17,090	3.24	Medium	$1,100.00	$3,564
I5-I6	Hwy 20 Cutoff	5,550	1.05	Medium	$1,100.00	$1,155
I7-I8	E. Cline Rd	7,790	1.48	Medium	$1,100.00	$1,628
I15-I16		1,750	0.33	Medium	$1,100.00	$363
I18- I19		1,290	0.24	Medium	$1,100.00	$264
I20-I21		900	0.17	Medium	$1,100.00	$187
I22-I23		5,560	1.05	Medium	$1,100.00	$1,155
I24-I25		2,000	0.38	Medium	$1,100.00	$418
I26-I27		1,890	0.36	Medium	$1,100.00	$396
I28-I29		7,740	1.47	Medium	$1,100.00	$1,617
I30-I31		1,470	0.28	Medium	$1,100.00	$308
I32-I33		6,930	1.31	Medium	$1,100.00	$1,441
I34-I35		7,190	1.36	Medium	$1,100.00	$1,496
I36-I37		590	0.11	Medium	$1,100.00	$121
I38-I39		550	0.10	Medium	$1,100.00	$110
Totals		**68,290**	**12.93**			**$14,223**

Hot Plunkett Timber Sale
No. 341-17-44

Project No. 4

Roadside Spraying

Date: 09/07/16

Segments	Feet	Miles	Cost per Mile	Segment Cost
I1-I26	10,840	2.05	$170	$ 348.50
I2-I29	17,090	3.24	$170	$ 550.80
I5-I6	5,550	1.05	$170	$ 178.50
I7-I8	7,790	1.48	$170	$ 251.60
I15-I16	1,750	0.33	$170	$ 56.10
I22-I23	5,560	1.05	$170	$ 178.50
I24-I25	2,000	0.38	$170	$ 64.60
Sta. 26+90-I29	2,690	0.51	$170	$ 86.70
I30-I31	1,470	0.28	$170	$ 47.60
I32-I33	6,930	1.31	$170	$ 222.70
I34-I35	7,190	1.36	$170	$ 231.20
I36-I37	590	0.11	$170	$ 18.70
I38-I39	550	0.10	$170	$ 17.00
Total	70,000	**13.25**		**$ 2,252.50**

Cost include labor, equipment and chemicals.

SUMMARY OF CONSTRUCTION COST

SALE Hot Plunkett Project # 5
Stockpile Construction

Construct stockpile	With C315 Excavator or D4 Cat							
	4	hr	@	$110.60	/hr	=	$442	
								$442
ROCK HAUL				Size	Cost/yd			
1 1/2"-0" Crushed rock	1,000	cy of		1½-0"	$16.33	=	$16,330	
					TOTAL ROCK COST =			$16,330

Compiled by: J. Long
Date: Sep 22, 2016

GRAND TOTAL =====> $16,772

SUMMARY OF MAINTENANCE COST

SALE Hot Plunkett - Final Maintenance Cost Estimate

(Costed in appraisal, not in project costs)

Grading	Move-in	Grader	$	778
		Backhoe	$	321
		Roller	$	778
		water truck	$	190

Road Segment	Length	Cost/Sta	Cost	Mileage
Surfaced Roads				
Burnt Woods Rd. (I1-I2)	35.6	$24.28	$864.37	0.67
I2-I3	58.0	$24.28	$1,408.24	1.10
I3-I4	19.0	$24.28	$461.32	0.36
I5-I6	25.3	$24.28	$614.28	0.48
I7 to I8	31.9	$24.28	$774.53	0.60
1E-1F	2.0	$24.28	$48.56	0.04
1G-1H	2.0	$24.28	$48.56	0.04
Sub Total	173.8		$4,219.86	3.3
Unsurfaced Roads				
1A to 1B	1.9	$11.55	$21.95	0.04
1C to 1D	3.7	$11.55	$42.74	0.07
2C to 2D	5.5	$11.55	$63.53	0.10
I9 to 2C	16.5	$11.55	$190.58	0.31
I11 to I12	36.8	$11.55	$425.04	0.70
Sub Total	64.4		$743.84	1.2

Maintenance Rock:

	Volume	Cost/CY	Cost
1½-0"	250	$18.15	$4,537.50
Grand Total			$ 11,568.20
TS Volume	4,304	MBF	
Cost / MBF =			$2.69

NOTES:

Unsurfaced roads: grade out ruts and install waterbars as directed by State with grader or dozer.

Surfaced roads: process and compact with grader and vibratory roller

SUMMARY OF MAINTENANCE COST

SALE Hot Plunkett Rock Haul Road Maintenance

Pt. I1 to Pt. I17

Road Segment	Length	Cost/Sta	Cost	Mileage
Burnt Woods Rd. ((I1 to I17)	158.4	$24.28	$3,845.95	3.00
Sub Total	158.4		$3,845.95	3.0

Maintenance Rock:

	Volume	Cost/CY	Cost
1½-0"	80	$16.33	$1,306.40
Grand Total			$5,152.35

Rock Haul Cost Computation

SALE NAME: Hot Plunkett
ROAD NAME: Haul route CLASS: Medium
ROCK SOURCE: Rickard 10-12 CY truck
Route: Garrett Ln, Hwy 20, Harlan/Burnt Woods Rd, Burnt Woods Ridge Rd,

TIME Computation:
Road speed time factors:

1.	55 MPH	22.0	MRT	24.0	minutes
2.	50 MPH		MRT	0.0	minutes
3.	45 MPH	4.0	MRT	5.3	minutes
4.	40 MPH		MRT	0.0	minutes
5.	35 MPH	3.0	MRT	5.1	minutes
6.	30 MPH		MRT	0.0	minutes
7.	25 MPH	1.0	MRT	2.4	minutes
8.	20 MPH		MRT	0.0	minutes
9.	15 MPH	0.3	MRT	1.2	minutes
10.	10 MPH		MRT	0.0	minutes
11.	05 MPH	0.1	MRT	1.2	minutes

Dump or spread time per RT		0.50	minutes
Total hauling cycle time for this setting (100% efficiency)		39.70	minutes
Operator efficiency correction	0.85	46.71	minutes
Job efficiency correction	0.90	51.90	minutes
Truck capacity (CY)	10.00	5.19	min/CY
Loading time, delay time per CY		0.25	min/CY
TIME (minutes) per cubic yard		5.44	min/CY

COST per CY computation

Cost of truck and operator per hour	$79.00	/hr.
Cost of truck and operator per minute	$1.32	/min
Cost per CY	$7.18	/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"	$ 10.97	$18.15	$19.65
3 - 0"	$ 9.31	$16.49	$17.99
Jaw Run	$ 8.31	$15.49	$16.99
pit-run	7.65	$14.83	$16.33

Note: Pit costs January 1, 2014 Rickard Rock Quarry

Rock Haul Cost Computation

SALE NAME: Hot Plunkett
ROAD NAME: Burnt Woods CLASS: Medium
ROCK SOURCE: Rickard 18 CY truck
Route: Garrett Ln, Hwy 20, Harlan, Burnt Woods

TIME Computation:
Road speed time factors:

1.	55 MPH	22.0	MRT	24.0	minutes
2.	50 MPH		MRT	0.0	minutes
3.	45 MPH	4.0	MRT	5.3	minutes
4.	40 MPH		MRT	0.0	minutes
5.	35 MPH	3.0	MRT	5.1	minutes
6.	30 MPH		MRT	0.0	minutes
7.	25 MPH	2.0	MRT	4.8	minutes
8.	20 MPH		MRT	0.0	minutes
9.	15 MPH	0.8	MRT	3.2	minutes
10.	10 MPH		MRT	0.0	minutes
11.	05 MPH	0.2	MRT	2.4	minutes

Dump or spread time per RT		0.50	minutes
Total hauling cycle time for this setting (100% efficiency)		45.30	minutes
Operator efficiency correct:	0.85	53.29	minutes
Job efficiency correction	0.90	59.21	minutes
Truck capacity (CY)	20.00	2.96	min/CY
Loading time, delay time per CY		0.25	min/CY
TIME (minutes) per cubic yard		3.21	min/CY

COST per CY computation

Cost of truck and operator per hour	$100.00	/hr.
Cost of truck and operator per minute	$1.67	/min
Cost per CY	$5.36	/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"	$ 10.97	$16.33	$17.83
3 - 0"	$ 9.31	$14.67	$16.17
Jaw Run	$ 8.31	$13.67	$15.17
pit-run	7.65	$13.01	$14.51

Note: Pit costs January 1, 2014 Rickard Rock Quarry

Rock Haul Cost Computation

SALE NAME: Hot Plunkett
ROAD NAME: Haul route CLASS: Medium
ROCK SOURCE: Burnt Woods Stockpile 10-12 CY truck
Route: Burnt Woods Road stockpile to sale areas

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		MRT	0.0	minutes
7.	25 MPH	7.0	MRT	16.8	minutes
8.	20 MPH		MRT	0.0	minutes
9.	15 MPH	3.0	MRT	12.0	minutes
10.	10 MPH		MRT	0.0	minutes
11.	05 MPH	0.5	MRT	6.0	minutes

Dump or spread time per RT		0.50	minutes
Total hauling cycle time for this setting (100% efficiency)		35.30	minutes
Operator efficiency correction	0.85	41.53	minutes
Job efficiency correction	0.90	46.14	minutes
Truck capacity (CY)	10.00	4.61	min/CY
Loading time, delay time per CY		0.25	min/CY
TIME (minutes) per cubic yard		4.86	min/CY

COST per CY computation

Cost of truck and operator per hour	$79.00	/hr.
Cost of truck and operator per minute	$1.32	/min
Cost per CY	$6.42	/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"	$ -	$6.42	$7.92
3 - 0"	$ -	$6.42	$7.92
Jaw Run	$ -	$6.42	$7.92
pit-run	0.00	$6.42	$7.92

Note: Maintenance rock from Salmon Creek Stockpile

Hot Plunkett (341-17-44)
FY 2017

TIMBER CRUISE REPORT

1. **Sale Area Location**: Portions of Sections 15, 21, & 22, T11S, R08W, W.M., Lincoln County, Oregon.

2. **Fund Distribution:**
   a. **Fund** BOF 100%
   b. **Tax Code**

3. **Sale Acreage by Area:**

Area	Treatment	Gross Acres	Stream Buffers	Existing Roads	Green Tree Retention Areas	Net Sale Acres	Acreage Comp. Method
1	**Modified Clearcut**	77	19	2	0	56	Ortho photo, GIS, GPS
2	**Modified Clearcut**	70	8	3	2	57	Ortho photo, GIS, GPS
Total		**147**	**27**	**5**	**2**	**113**	

4. **Cruisers and Cruise Dates:** The sale was cruised by Matt McBride, Jon Long and Carli Morgan in July and August of 2016.

5. **Cruise Method and Computation:** The sale consists of 2 modified clearcut areas that were cruised using variable radius plot sampling. The sale area was cruised using a 40 BAF with plots spaced 2 chains apart on plot lines spaced 5 chains apart in Area 1, and 3 chains apart on plot lines spaced 6 chains apart in Area 2. A total of 73 plots were taken with 47 count plots and 24 cruise plots with 2 blank plots. Cruise plots were measured for DBH, height, form factor, grade, and defect. Data was entered into the Atterbury SuperACE 2008 cruise program to calculate net board feet per acre. Marked wildlife trees and snags were also cruised if they were "in" on cruise plots. Wildlife trees and snags were then deleted from the "Take" volume.

   Digital ortho photos, Lidar data, and GPS data from a Garmin GPSmap 64st were used to map the boundaries for the sale, and ArcMap 10.2 was used to determine gross and net acreage.

6. **Measurement Standards:** Heights were measured to the nearest foot, to a top diameter of 7 inches outside bark or to 40% of form factor. Diameters were measured to the nearest inch, and a form point of 16 feet was used to calculate form factor. Most trees were graded in 40 foot log segments unless breakage, defect, or length to top of grade cruise diameter warranted otherwise.

7. **Timber Description:** Timber in the sale areas consists of 53 to 85 year-old Douglas-fir, red alder, big leaf maple, and Port Orford cedar. Western hemlock is reserved from cutting but were only observed in minor amounts scattered through the sale area. The Average Douglas-fir tree size to be harvested is approximately 23 inches DBH, with an average height of 101 feet to a merchantable top. The average red alder is approximately 14 inches DBH, with and average height of 45 feet to a merchantable top. The average big leaf maple is approximately 20 inches DBH, with and average height of 28 feet to a merchantable top. The average Port Orford cedar is approximately 12 inches DBH, with and average height of 28 feet to a merchantable top. Big leaf Maple is a minor component of the stand and the volume was added to the red alder volumes. The average volume per acre to be harvested (net) is 38.1 MBF.

8. **Statistical Analysis and Stand Summary:** (See attached "Statistics").

Area	Target CV	Target SE	Actual CV	Actual SE
1	52%	9%	110%	16%
2	37%	11%	46%	9%
1 & 2	50%	9%	84%	10%

Note: Statistics shown are for conifer and hardwood trees combined. Percentages are for net board foot volume.

9. **Total Volume (MBF) by Species and Grade:** (See attached "Stand Table Summary" and "Species, Sort Grade").

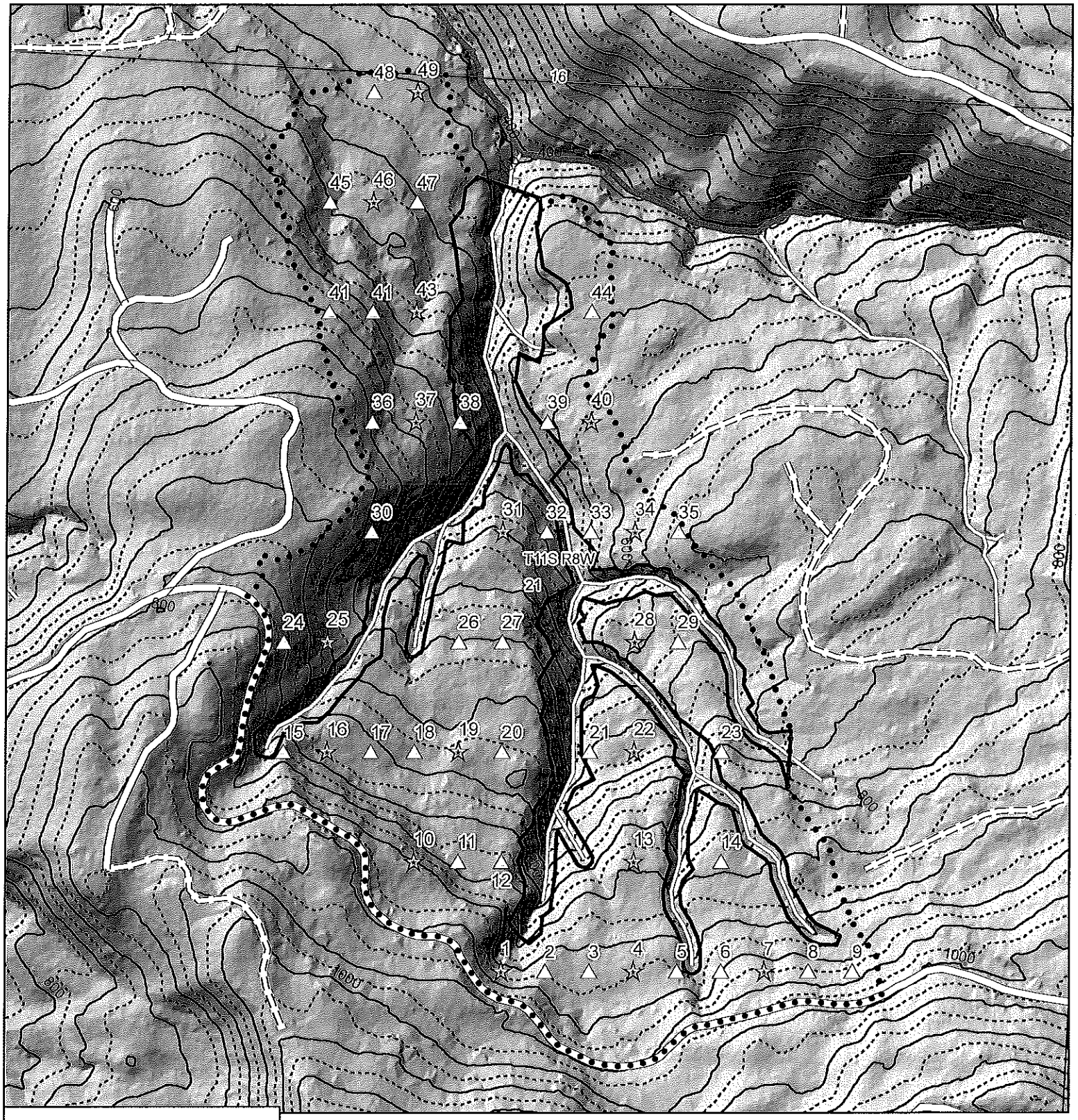
Species	Gross Cruise Volume	Cruised D & B	Cruised D & B (MBF)	Hidden D & B	Hidden D & B (MBF)	Net Sale Volume
Douglas-fir	4,297	3%	129	5%	215	3,953
Red alder	344	3%	10	6%	21	313
Big leaf maple	26	13%	3	6%	2	21
Port Orford cedar	19	0%	0	5%	1	18
Total	4,686	3%	142	5%	239	4,305

Species	DBH	Net Vol.	2-Saw	3-Saw	4-Saw	Camp Run	% by Species
Douglas-fir	Grade Percentages		74%	22%	4%	--	92%
	23	3,953	2,925	870	158	--	
Red alder	Grade Percentages		--	--	--	100%	
	14	313	--	--	--	313	7%
Big leaf maple	Grade Percentages		--	--	--	100%	
	20	21	--	--	--	21	<1%
Port Orford cedar	Grade Percentages		--	--	100%	--	<1%
	12	18	--	--	18	--	
Total	Grade Percentages		68%	20%	4%	8%	100%
		4,305	2,925	870	176	334	

Attachments: Cruise Maps
Species, Sort Grade – Board Foot Volumes
Statistics
Stand Table Summary
Log Stock Table – MBF

Prepared by: Matt McBride Date: 05/10/2016

Unit Forester: _____ Date: _____
Evelyn Hukari



Timber Sale Boundary
Stream Buffer

Plots

Grade
Count

Roads

Surfaced Road
Unsurfaced Road

Hot Plunkett Area 1

PORTIONS OF SECTIONS 15, 21, 22
T11S,R08W,W.M.
LINCOLN COUNTY, OREGON

1:4,800

0 100 200 400 600 800 Feet

Plots - 2 Ch apart
Lines - 5 Ch apart

Count/Measure - 40 BAF @ BH
Measure Plots -
Record DBH, FF, Height, Grade, & Defect

N

Date: 07/19/2016

Timber Sale Boundary

Stream Buffer

Plots

Grade

Count

Roads

Surfaced Road

Unsurfaced Road

Hot Plunkett Area 2

PORTIONS OF SECTIONS 15, 21, 22
T11S,R08W,W.M.
LINCOLN COUNTY, OREGON

1:4,800

0 100 200 400 600 800 Feet

Plots - 3 Ch apart
Lines - 6 Ch apart

Count/Measure - 40 BAF @ BH
Measure Plots -
Record DBH, FF, Height, Grade, & Defect

N

Date: 07/19/2016

TC PSTATS

PROJECT STATISTICS

PROJECT HOTPLUNK

DATE 8/18/2016

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
11S	08	22	AREA1	A1	113.00	73	348	1	W
11S	08W	22	AREA2	A2					

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	73	348	4.8		
CRUISE	24	103	4.3	10,347	1.0
DBH COUNT					
REFOREST					
COUNT	47	238	5.1		
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
DF	80	52.5	23.1	101	31.8	152.8	38,025	37,028	8,182	8,182
R ALDER	19	31.7	14.3	45	9.3	35.4	3,044	2,942	951	951
PO CEDAR	1	5.7	12.0	28	1.3	4.5	171	171	74	74
BL MAPLE	3	1.7	19.5	28	0.8	3.4	231	200	68	68
TOTAL	*103*	*91.6*	*19.8*	*76*	*44.1*	*196.1*	*41,471*	*40,342*	*9,276*	*9,276*

CONFIDENCE LIMITS OF THE SAMPLE

68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR

CL 68.1 SD: 1.0

SAMPLE TREES - BF

	COEFF VAR.%	S.E.%	LOW	AVG	HIGH	# OF TREES REQ. 5	10	INF. POP. 15
DF	65.9	7.4	881	951	1,020			
R ALDER	50.9	12.0	102	116	130			
PO CEDAR								
BL MAPLE	74.4	51.5	125	257	389			
TOTAL	*84.8*	*8.3*	*703*	*767*	*831*	*287*	*72*	*32*

CL 68.1 SD: 1.0

TREES/ACRE

	COEFF VAR.%	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DF	92.6	10.8	47	53	58			
R ALDER	170.0	19.9	25	32	38			
PO CEDAR	442.1	51.7	3	6	9			
BL MAPLE	449.7	52.6	1	2	3			
TOTAL	*66.3*	*7.7*	*84*	*92*	*99*	*175*	*44*	*19*

CL 68.1 SD: 1.0

BASAL AREA/ACRE

	COEFF VAR.%	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DF	94.1	11.0	136	153	170			
R ALDER	163.7	19.1	29	35	42			
PO CEDAR	442.1	51.7	2	4	7			
BL MAPLE	418.2	48.9	2	3	5			
TOTAL	*66.5*	*7.8*	*181*	*196*	*211*	*177*	*44*	*20*

CL 68.1 SD: 1.0

NET BF/ACRE

	COEFF VAR.%	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DF	97.7	11.4	32,799	37,028	41,258			
R ALDER	154.3	18.0	2,412	2,942	3,473			
PO CEDAR	442.1	51.7	83	171	260			
BL MAPLE	419.8	49.1	102	200	298			
TOTAL	*84.3*	*9.9*	*36,363*	*40,342*	*44,321*	*284*	*71*	*32*

TC PSPCSTGR

Species, Sort Grade - Board Foot Volumes (Project)

T11S R08W S22 TyA1	56.00
T11S R08W S22 TyA2	57.00

Project: **HOTPLUNK**

Acres **113.00**

Page **1**
Date **8/18/2016**
Time **4:02:54PM**

Spp	St	So Grad	% 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	Dia In	Bd Ft	CF/ Lf	Logs Per /Acre
DF		CU														11	16		0.00	1.2
DF		2M	74	2.5	28,260	27,549	3,113			35	65		0		100	40	16	436	2.28	63.2
DF		3M	22	3.3	8,473	8,194	926		57	22	21	0	6	12	82	37	10	150	1.03	54.6
DF		4M	4	.6	1,292	1,285	145	8	33	41	18	22	67	6	4	25	8	63	0.66	20.4
DF	**Totals**		92	2.6	38,025	37,028	4,184	0	14	32	54	1	4	3	92	36	13	266	1.62	139.4
RA		CU														15	8		0.00	7.6
RA		CR	100	3.3	3,044	2,942	332		94	6		14	12		73	31	8	74	0.77	39.7
RA	**Totals**		7	3.3	3,044	2,942	332		94	6		14	12		73	28	8	62	0.71	47.3
BM		CR	100	13.4	231	200	23		25		75	34	25		41	25	11	121	1.60	1.7
BM	**Totals**		0	13.4	231	200	23		25		75	34	25		41	25	11	121	1.60	1.7
PO		4M	100		171	171	19		100				100			27	6	30	0.48	5.7
PO	**Totals**		0		171	171	19		100				100			27	6	30	0.48	5.7
Totals				2.7	41,471	40,342	4,559	0	20	30	50	2	5	3	90	34	11	208	1.41	194.1

TC PSTNDSUM

Stand Table Summary

Page 1
Date: 8/18/2016

T11S R08W S22 TyA1 56.00
T11S R08W S22 TyA2 57.00

Project HOTPLUNK
Acres 113.00

Time: 4:02:54PM
Grown Year:

Spc	S T	DBH	Sample Trees	FF 16'	Tot Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Average Log Net Cu.Ft.	Average Log Net Bd.Ft.	Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
DF		12	1	87	31	1.701	1.34	1.70	11.0	30.0		19	51		21	6
DF		13	2	92	75	2.899	2.67	2.90	26.0	85.0		75	246		85	28
DF		15	1	87	107	1.089	1.34	2.18	25.5	100.0		56	218		63	25
DF		16	2	87	92	1.914	2.67	3.83	25.3	85.0		97	325		109	37
DF		17	2	89	108	3.153	4.97	6.31	33.7	110.0		213	694		240	78
DF		18	3	90	113	3.568	6.31	7.14	37.8	120.4		270	860		305	97
DF		19	2	88	160	1.940	3.82	5.82	37.5	160.5		218	934		246	106
DF		20	3	88	143	2.890	6.31	8.67	39.2	170.9		340	1,482		385	167
DF		22	11	88	147	7.743	20.44	22.72	48.6	213.5		1,105	4,851		1,248	548
DF		23	3	90	191	1.389	4.01	4.17	64.8	350.0		270	1,458		305	165
DF		24	12	87	149	8.028	25.22	24.08	57.5	254.3		1,386	6,125		1,566	692
DF		25	2	90	195	.784	2.67	2.35	80.8	463.3		190	1,089		215	123
DF		26	10	87	147	5.804	21.40	16.38	68.2	312.5		1,118	5,119		1,263	578
DF		27	4	89	150	1.922	7.64	6.10	70.4	314.3		429	1,918		485	217
DF		28	4	85	164	2.056	8.79	6.48	79.7	384.0		517	2,488		584	281
DF		30	6	87	150	2.101	10.31	6.30	91.6	426.6		577	2,689		652	304
DF		31	1	77	119	.255	1.34	.76	77.0	273.3		59	209		67	24
DF		32	5	86	154	1.813	10.13	5.88	98.1	469.7		577	2,764		652	312
DF		34	1	87	158	.394	2.48	1.18	119.7	596.7		141	705		160	80
DF		35	2	88	231	.400	2.67	1.20	152.0	943.3		182	1,132		206	128
DF		40	2	85	148	.438	3.82	1.31	155.9	732.4		205	962		231	109
DF		42	1	84	165	.258	2.48	.77	180.0	916.7		139	710		158	80
DF		Totals	80	88	136	52.538	152.83	138.24	59.2	267.9		8,182	37,028		9,246	4,184
RA		11	1	87	35	6.228	4.11	6.23	11.0	30.0		69	187		77	21
RA		12	3	87	49	6.100	4.79	4.07	21.0	60.0		85	244		97	28
RA		13	2	87	96	3.465	3.19	6.93	18.0	60.0		125	416		141	47
RA		14	2	87	66	2.988	3.19	2.99	27.5	75.0		82	224		93	25
RA		15	3	87	89	3.904	4.79	6.51	27.0	102.0		176	664		199	75
RA		16	3	87	82	3.431	4.79	5.72	29.2	96.0		167	549		189	62
RA		17	2	87	77	2.026	3.19	3.04	28.0	83.3		85	253		96	29
RA		18	1	86	75	.904	1.60	.90	53.0	170.0		48	154		54	17
RA		20	2	87	49	2.616	5.71	3.35	34.3	75.3		115	252		130	28
RA		Totals	19	87	64	31.662	35.37	39.73	23.9	74.1		951	2,942		1,075	332
BM		13	1	86	36	1.247	1.15	1.25	16.0	40.0		20	50		23	6
BM		32	2	87	47	.412	2.30	.41	116.0	365.0		48	150		54	17
BM		Totals	3	86	39	1.658	3.45	1.66	40.8	120.7		68	200		76	23
PO		12	1	82	41	5.709	4.48	5.71	13.0	30.0		74	171		84	19
PO		Totals	1	82	41	5.709	4.48	5.71	13.0	30.0		74	171		84	19
Totals			103	87	103	91.567	196.13	185.34	50.0	217.7		9,276	40,342		10,482	4,559

TC PLOGSTVB

Log Stock Table - MBF

T11S R08W S22 TyA1 56.00
T11S R08W S22 TyA2 57.00

Project: HOTPLUNK
Acres 113.00

Page 1
Date 8/18/2016
Time 4:02:55PM

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+
DF			2M	24	7		7	.2						7						
DF			2M	38	11	10.5	10	.2						10						
DF			2M	40	3,176	2.5	3,096	74.0						294	498	1508	601	196		
DF			3M	20	5		5	.1						5						
DF			3M	21	2		2	.0				2								
DF			3M	22	8		8	.2							8					
DF			3M	24	5		5	.1					5							
DF			3M	27	2		2	.0				2								
DF			3M	28	3		3	.1			3									
DF			3M	29	36	1.4	35	.8						2		33				
DF			3M	32	96		96	2.3			35	18	3	7			32			
DF			3M	33	9		9	.2			9									
DF			3M	34	6		6	.1			6									
DF			3M	36	11		11	.3			5			6						
DF			3M	37	74		74	1.8			9	30				21	15			
DF			3M	39	28		28	.7					5			23				
DF			3M	40	674	4.6	643	15.4			18	116	264	24	104	45	53	20		
DF			4M	12	1		1	.0				1								
DF			4M	16	10		10	.2									10			
DF			4M	17	13	6.4	12	.3			10	1	1							
DF			4M	19	10		10	.2							10					
DF			4M	22	13		13	.3				2			11					
DF			4M	23	4		4	.1			4									
DF			4M	24	9		9	.2		6	3									
DF			4M	25	13		13	.3								13				
DF			4M	27	40		40	1.0			14			12	14					
DF			4M	28	3		3	.1			3									
DF			4M	29	16		16	.4								16				
DF			4M	32	5		5	.1			5									
DF			4M	33	4		4	.1			4									
DF			4M	40	6		6	.2		6										
DF		Totals			4,297	2.6	4,184	91.8		12	129	172	277	366	645	1658	711	215		
RA			CR	14	11	30.0	8	2.4							8					
RA			CR	16	4		4	1.3			4									
RA			CR	17	2		2	.7			2									
RA			CR	18	19	8.8	17	5.1			4					13				
RA			CR	20	15		15	4.6			10	5								

TC PLOGSTVB

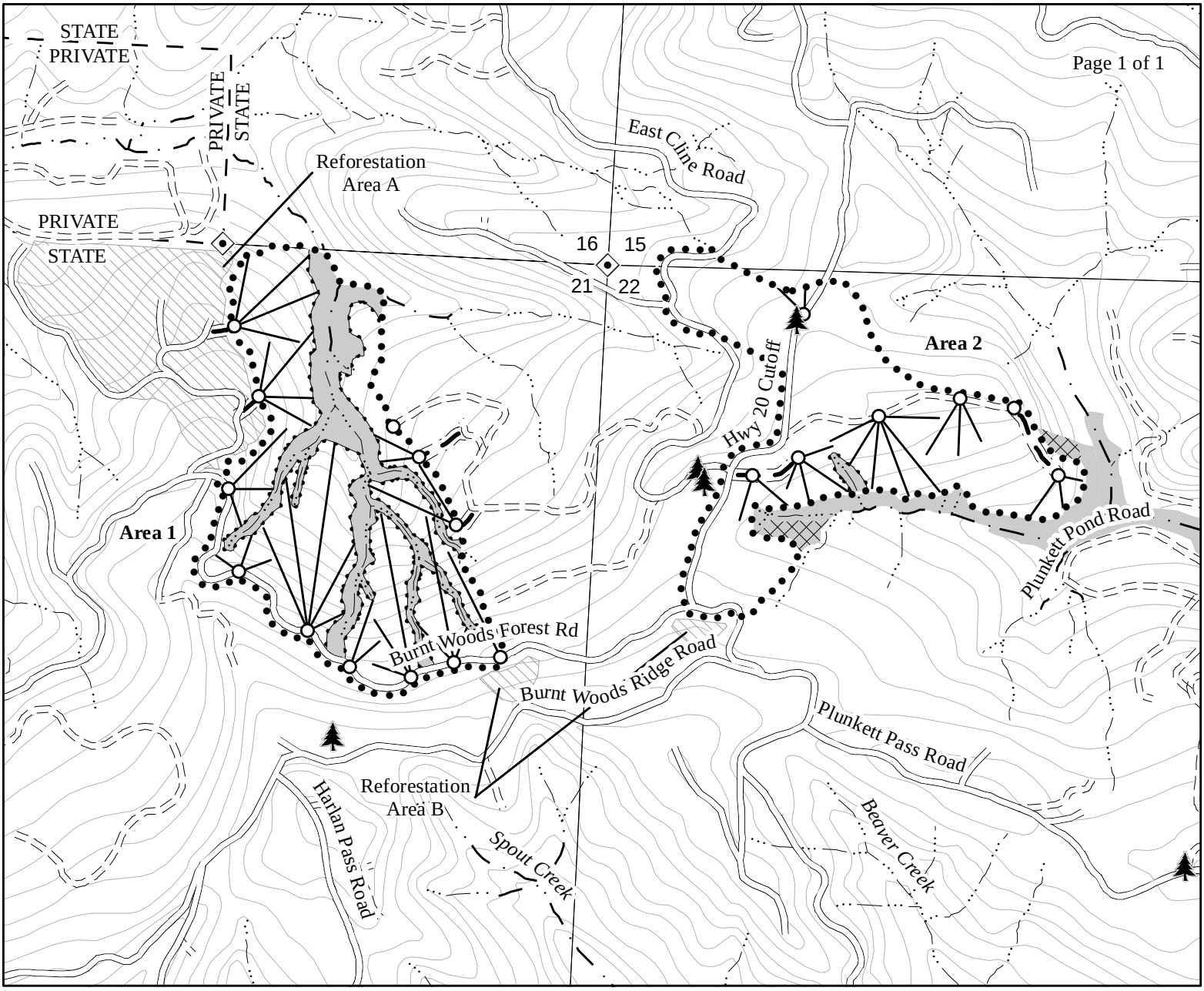
Log Stock Table - MBF

T11S R08W S22 TyA1	56.00
T11S R08W S22 TyA2	57.00

Project: HOTPLUNK
Acres 113.00

Date 8/18/2016
Time 4:02:55PM

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+
RA			CR	24	27		27	8.1			27									
RA			CR	30	14		14	4.1				14								
RA			CR	36	7		7	2.1			7									
RA			CR	38	42	5.0	40	12.1			40									
RA			CR	40	201	2.1	197	59.3			10	65	122							
RA			Totals		344	3.3	332	7.3			105	84	122			8 13				
BM			CR	20	10	21.4	8	33.9									8			
BM			CR	24	6		6	24.9				6								
BM			CR	40	11	13.0	9	41.1								9				
BM			Totals		26	13.4	23	.5				6				9	8			
PO			4M	27	19		19	100.0			19									
PO			Totals		19		19	.4			19									
Total			All Species		4,686	2.7	4,559	100.0		12	253	261	399	366	653	1681	719	215		



Legend

Boundaries
- Timber Sale Boundary
- State Forest Property Boundary
- Right of Way (Posted)

Roads
- Surfaced Road
- Unsurfaced Road
- New Construction

Streams
- Type F Stream
- Type N Stream
- Posted Stream Buffer
- Stream Buffer
- Reforestation Area
- Cable Corridors
- Land Survey Monument
- Parent Trees
- Green Tree Retention Area

LOGGING PLAN

OF TIMBER SALE CONTRACT NO. 341-17-44
HOT PLUNKETT
PORTIONS OF SECTIONS 15, 21 & 22, T11S, R8W, W.M.,
LINCOLN COUNTY, OREGON

AREA	NET ACRES TRACTOR	NET ACRES CABLE
1 (MC)	4	52
2 (MC)	37	20
TOTAL	41	72

Scale

1:12,000

1,000 0 1,000 2,000 Feet

N

Created By: Blake McKinley
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Date: 09/13/2016