



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Little Thin on the Prairie
Sale WO-341-2021-WOO362-01

District: West Oregon

Date: August 03, 2020

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$193,661.09	\$0.00	\$193,661.09
		Project Work:	(\$56,585.00)
		Advertised Value:	\$137,076.09



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Timber Description

Location: Portions of sections 16 and 17, T10S R09W, Lincoln County, Oregon

Stand Stocking: 60%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	13	0	97

Volume by Grade	2S	3S & 4S 6"-11"	Total
Douglas - Fir	93	874	967
Total	93	874	967

Comments: Pond Values Used: Local Pond Values, June, 2020

Western Hemlock and Other Conifers: $\$19.29/\text{MBF} = \$2.50/\text{TON} \times (27 \text{ TONS} / 3.5 \text{ MBF})$

Red Alder and Other Hardwoods Stumpage Price = Pond Value minus Logging Cost:
 $\$50/\text{MBF} = \$512/\text{MBF} - \$462/\text{MBF}$

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost:
 $\$288/\text{MBF} = \$900/\text{MBF} - (\$462/\text{MBF} + \$150/\text{MBF}(\text{Extra Haul Cost}))$

PULP (Conifer and Hardwood Price) = $\$2.50/\text{TON}$

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

Intermediate Support/Tail Trees: 30 supports @ $\$100/\text{support} = \$3,000$.

TOTAL Other Costs (with Profit & Risk to be added) = $\$3,000$

Other Costs (No Profit & Risk added):

Equipment Cleaning (Invasive Species): $\$2,000$

Landing Slash Piling and sorting out firewood: 4 Landings @ $\$180/\text{Landing} = \720

Landing Slash Piling: 6 Landings @ $\$100/\text{Landing} = \600

Waterbar and block unsurfaced roads: 35 stations @ $15.96/\text{sta.} = \$559$

TOTAL Other Costs (No Profit & Risk added) = $\$3,879$

ROAD MAINTENANCE

Move-in: (Grader) $\$875$

Final Road Maintenance: $\$7566.46$

TOTAL Road Maintenance: $\$8,441.46/967/\text{MBF} = \$8.73/\text{MBF}$



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Logging Conditions

Combination#: 1	Douglas - Fir	95.00%
Logging System:	Cable: Medium Tower >40 - <70	Process: Manual Falling/Delimbing
yarding distance:	Medium (800 ft)	downhill yarding: No
tree size:	Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF	
loads / day:	6	bd. ft / load: 4000
cost / mbf:	\$275.00	
machines:	Log Loader (A)	
	Tower Yarder (Medium)	
<hr/>		
Combination#: 2	Douglas - Fir	5.00%
Logging System:	Shovel	Process: Harvester Head Delimbing
yarding distance:	Short (400 ft)	downhill yarding: No
tree size:	Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF	
loads / day:	12	bd. ft / load: 4000
cost / mbf:	\$111.33	
machines:	Forwarder	
	Harvester	



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Date: August 03, 2020

Logging Costs

Operating Seasons: 3.00	Profit Risk: 10%
Project Costs: \$56,585.00	Other Costs (P/R): \$3,000.00
Slash Disposal: \$0.00	Other Costs: \$3,879.00

Miles of Road

Road Maintenance: \$8.73

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	4.0



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District: West Oregon

Date: August 03, 2020

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas - Fir									
\$266.82	\$8.99	\$13.62	\$122.31	\$3.10	\$41.48	\$0.00	\$2.00	\$4.01	\$462.33

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$662.60	\$200.27	\$0.00



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District: West Oregon

Date: August 03, 2020

Summary

Amortized

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

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	967	\$200.27	\$193,661.09

Gross Timber Sale Value

Recovery: \$193,661.09

Prepared By: David Bailey

Phone: 541-929-9164

SUMMARY OF ALL PROJECT COSTS

Sale Name: Little Thin on the Prairie

Date: August 2020

Time: 14:19

Project #1 - New Construction

<u>Road Segment</u>	<u>Length</u>	<u>Cost</u>	
A to B	14.8 sta	\$5,109	
C to D	6.1 sta	\$1,504	
TOTALS	20.9 sta		\$6,613

Project #2 - Road Improvement

<u>Road Segment</u>	<u>Length</u>	<u>Cost</u>	
1 to 2	144.6 sta	\$3,317	
3 to A	27.5 sta	\$3,464	
4 to 5	37.7 sta	\$4,560	
6 to 7	4.9 sta	\$311	
2 to 8	34.5 sta	\$17,111	
9 to 10	6.4 sta	\$953	
11 to 12	4.7 sta	\$7,097	
13 to 14	117.4 sta	\$8,924	
TOTALS	377.7 sta		\$45,737

Project #3 - Move in

	<u>Cost</u>	
Dozer, D7 or equiv.	\$905	
Excavator, C330 or equiv.	\$1,580	
Grader, Cat 14-G or equiv.	\$875	
Vibratory roller	\$875	
TOTAL		\$4,235

GRAND TOTAL **\$56,585**

Compiled by David Bailey/Cody Valencia

Date 08/07/2020

SUMMARY OF CONSTRUCTION COST

SALE Little Thin on the Prairie
ROAD A to B

Project # 1
(Unsurfaced)

LENGTH const

14.8 sta

CLEARING AND GRUBBING

Pt. A to B

0.82 acres @ \$1,337.00 /acre = \$1,096

TOTAL CLEARING AND GRUBBING = \$1,096

EXCAVATION

With D7 dozer or equivalent

Balanced road construction 11.8 sta @ \$138 /sta = \$1,628

Unbalanced Road construction 3.0 sta @ \$214 /sta = \$642

(Sta. 4+00 to 7+00)

Construct turnaround 1.0 TA @ \$50 /TA = \$50

(Sta. 9+50)

End haul waste material (Expanded 20%) 150 CY @ \$2.50 /CY = \$375

(Sta. 11+75 to 12+50)

Waste material compaction 150 cy @ \$0.45 /cy = \$68

Construct Landing (Pt. B) 1 Ldg @ \$438 /ldg = \$438

Shape subgrade 14.8 sta @ \$20.63 /sta = \$305

(with road grader)

Compact subgrade 14.8 sta @ \$16.00 /sta = \$237

(with vibratory roller)

TOTAL EXCAVATION = \$3,743

SURFACING

Junction rock (Pt. A)

10 cy of Size 3"-0" Cost/yd \$26.99 = \$270

TOTAL ROCK COST = \$270

Compiled by:

David Bailey/Cody Valencia

Date:

Aug 7, 2020

GRAND TOTAL =====>

\$5,109

SUMMARY OF CONSTRUCTION COST

SALE Little Thin on the Prairie Project # 1 LENGTH const 6.1 sta
ROAD C to D (Unsurfaced)

EXCAVATION

With D7 dozer or equivalent

Balanced road construction	6.1 sta	@	\$138 /sta	=	\$842
Construct Landing	1 Ldg	@	\$438 /ldg	=	\$438
Shape subgrade (with road grader)	6.1 sta	@	\$20.63 /sta	=	\$126
Compact subgrade (with vibratory roller)	6.1 sta	@	\$16.00 /sta	=	\$98

TOTAL EXCAVATION = \$1,504

Compiled by: David Bailey/Cody Valencia
Date: Aug 7, 2020

GRAND TOTAL =====> \$1,504

SUMMARY OF CONSTRUCTION COST

SALE Little Thin on the Prairie Project # 2 LENGTH Improve 144.6 sta
ROAD 1 to 2 (Surfaced)

EXCAVATION

With C330 Excavator or equivalent

Excavate bank slough 0.5 hr @ \$175 /hr = \$88
(Sta. 88+20)

TOTAL EXCAVATION = \$88

IMPROVEMENT

Sod Removal 24.3 sta @ \$15.40 /sta = \$374
(Sta. 120+30 to 144+60)

TOTAL IMPROVEMENT = \$374

SURFACING

			Size	Cost/yd		
Spot rock	70	cy of	3"-0"	\$26.99	=	\$1,889
(Sta. 0+00 to Sta. 50+00)						
Shape surface	25.0	sta	@	\$20.63 /sta	=	\$516
(with road grader)						
Compact subgrade	25.0	sta	@	\$16.00 /sta	=	\$400
(with vibratory roller)						

TOTAL ROCK COST = \$2,805

SPECIAL PROJECTS

Clean out culverts 2 culverts @ \$25.00 ea = \$50
(inlets and outlets)

TOTAL SPECIAL PROJECTS COST = \$50

Compiled by: David Bailey/Cody Valencia
Date: Aug 7, 2020

GRAND TOTAL =====> \$3,317

SUMMARY OF CONSTRUCTION COST

SALE Little Thin on the Prairie Project # 2 LENGTH improve 27.5 sta
ROAD 3 to A (Surfaced)

IMPROVEMENT

Sod Removal 27.5 sta @ \$15.40 /sta = \$424

TOTAL IMPROVEMENT = \$424

SURFACING

			Size	Cost/yd		
Turnout rock	10	cy of	1½"-0"	\$28.69	=	\$287
Spot rock	60	cy of	1½"-0"	\$28.69	=	\$1,721
Shape surface (with road grader)	27.5	sta @	\$20.63	/sta	=	\$567
Compact subgrade (with vibratory roller)	27.5	sta @	\$16.00	/sta	=	\$440

TOTAL ROCK COST = \$3,015

SPECIAL PROJECTS

Clean out culverts 1 culvert @ \$25.00 ea = \$25
(inlets and outlets)

TOTAL SPECIAL PROJECTS COST = \$25

Compiled by: David Bailey/Cody Valencia
Date: Aug 7, 2020

GRAND TOTAL =====>

\$3,464

SUMMARY OF CONSTRUCTION COST

SALE ROAD	Little Thin on the Prairie 4 to 5	Project # 2 (Unsurfaced)	LENGTH improve	37.7 sta
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EXCAVATION

With C330 excavator or equivalent

Re-open road	1 hr	@	\$175 /hr	=	\$175
Excavate bank slough (Sta.31+40 to 36+30)	8 hr	@	\$175 /hr	=	\$1,400
End haul bank slough (Expanded 20%)	250 cy	@	\$4.50 /cy	=	\$1,125
Waste material compaction	250 cy	@	\$0.45 /cy	=	\$113
Cut slope rounding	4 sta	@	\$49.00 /sta	=	\$196
Clear Landing (Pt. 5) (with excavator)	1 hr	@	\$175 /hr	=	\$175

TOTAL EXCAVATION = \$3,184

IMPROVEMENT

Sod Removal (Sta. 31+20 to Sta. 37+70)	6.5 sta	@	\$15.40 /sta	=	\$100
Load and End haul sod debris	30 cy	@	\$4.50 /cy	=	\$135
Shape subgrade (with road grader)	11.5 sta	@	\$20.63 /sta	=	\$237
Compact subgrade (with vibratory roller) (Sta. 31+20 to Sta 37+70)	6.5 sta	@	\$16.00 /sta	=	\$104

TOTAL IMPROVEMENT = \$576

SURFACING

			Size Cost/yd		
Armor rock (Sta. 35+70)	30 cy of		Jaw-Run \$26.66	=	\$800

TOTAL ROCK COST = \$800

Compiled by:

David Bailey/Cody Valencia

Date:

Aug 7, 2020

GRAND TOTAL =====> \$4,560

SUMMARY OF CONSTRUCTION COST

SALE Little Thin on the Prairie Project # 2 LENGTH improve 4.9 sta
ROAD 6 to 7 (Unsurfaced)

IMPROVEMENT

Sod removal (with road grader)	4.9 sta	@	\$15.40 /sta	=	\$75
Re-open Landing (Pt.7) (with road grader)	0.5 hrs	@	\$114 /hr	=	\$57
Shape subgrade (with road grader)	4.9 sta	@	\$20.63 /sta	=	\$101
Compact subgrade (with vibratory roller)	4.9 sta	@	\$16.00 /sta	=	\$78

TOTAL IMPROVEMENT = \$311

Compiled by: David Bailey/Cody Valencia
Date: Aug 7, 2020

GRAND TOTAL =====> \$311

SUMMARY OF CONSTRUCTION COST

SALE ROAD	Little Thin on the Prairie 2 to 8	Project # 2 (Surfaced)	LENGTH improve	34.5 sta
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EXCAVATION

With C330 excavator or equivalent

Excavate bank slough (Pt. 9 to 23+90)	10 hr	@	\$175 /hr	=	\$1,750
End haul bank slough (Expanded 20%)	200 cy	@	\$2.50 /cy	=	\$500
Waste material compaction	200 cy	@	\$0.45 /cy	=	\$90

TOTAL EXCAVATION = \$2,340

IMPROVEMENT

Re-open road (with road grader)	34.5 sta	@	\$15.40 /sta	=	\$531
Load and End haul sod debris	140 cy	@	\$2.50 /cy	=	\$350
Re-open Landing (Pt. 8) (with road grader)	1 hrs	@	\$114 /hr	=	\$114
Shape subgrade (with road grader)	34.5 sta	@	\$20.63 /sta	=	\$712
Compact subgrade (with vibratory roller)	34.5 sta	@	\$16.00 /sta	=	\$552
Realign road (Sta. 16+20 to 17+20) (with road grader)	1 hrs	@	\$114 /hr	=	\$114
Construct turnaround (Pt. 8)	1.0 TA	@	\$50 /TA	=	\$50

TOTAL IMPROVEMENT = \$2,423

SURFACING

			Size	Cost/yd	
Surface rock (4" lift Point 2 to 9)	240 cy of		3"-0"	\$26.99	= \$6,478
Surface rock (6" lift Point 9 to 11)	190 cy of		3"-0"	\$26.99	= \$5,128
Shape surface (Sta. 0+00 to 16+90) (with road grader)	16.9 sta	@	\$20.63 /sta	=	\$349
Compact surface (Sta. 0+00 to 16+90) (with vibratory roller)	16.9 sta	@	\$16.00 /sta	=	\$270

TOTAL ROCK COST = \$12,225

SPECIAL PROJECTS

Clean out culverts (inlets and outlets)	4 culverts	@	\$25.00 ea	=	\$100
Repair culvert outlet	0.5 hrs	@	\$45.00 /hr	=	\$23

TOTAL SPECIAL PROJECTS COST = \$123

Compiled by:
Date:

David Bailey/Cody Valencia
Aug 7, 2020

GRAND TOTAL =====>

\$17,111

SUMMARY OF CONSTRUCTION COST

SALE Little Thin on the Prairie Project # 2 LENGTH improve 6.4 sta
ROAD 9 to 10 (Unsurfaced)

IMPROVEMENT

Re-open road and Landing (Pt.10) (with excavator)	2 hrs	@	\$175 /hr	=	\$350
Sod removal (with road grader)	6.4 sta	@	\$15.40 /sta	=	\$99
Shape subgrade (with road grader)	6.4 sta	@	\$20.63 /sta	=	\$132
Compact subgrade (with vibratory roller)	6.4 sta	@	\$16.00 /sta	=	\$102

TOTAL IMPROVEMENT = \$683

SURFACING

Junction rock (Pt. 9)	10 cy of	Size 3"-0"	Cost/yd \$26.99	=	\$270
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TOTAL ROCK COST = \$270

Compiled by: David Bailey/Cody Valencia
Date: Aug 7, 2020

GRAND TOTAL =====> \$953

SUMMARY OF CONSTRUCTION COST

SALE Little Thin on the Prairie
ROAD 11 to 12

Project # 2
(Surfaced)

LENGTH Improve

4.7 sta

EXCAVATION

With C330 excavator or equivalent

Re-open Landing (Pt. 12)	1 hr	@	\$175 /hr	=	\$175
Excavate bank slough (Sta. 0+00 to 0+50)	2 hr	@	\$175 /hr	=	\$350
End haul bank slough (Expanded 20%) (to Sta. 4+70)	60 cy	@	\$2.50 cy	=	\$150
Waste material compaction	60 cy	@	\$0.45 cy	=	\$27

TOTAL EXCAVATION = \$702

IMPROVEMENT

Sod removal	4.7 sta	@	\$15.40 /sta	=	\$72
Realign road (Sta. 0+00 to 0+80) (with road grader)	1 hrs	@	\$114 /hr	=	\$114
Shape subgrade (with road grader)	4.7 sta	@	\$20.63 /sta	=	\$97
Compact subgrade (with vibratory roller)	4.7 sta	@	\$16.00 /sta	=	\$75

TOTAL IMPROVEMENT = \$358

SURFACING

			Size	Cost/yd		
Surface rock (8 inch lift)	190	cy of	Jaw-Run	\$26.66	=	\$5,065
Landing rock	30	cy of	Jaw-Run	\$26.66	=	\$800
Shape surface (with road grader)	4.7 sta	@	\$20.63 /sta	=	\$97	
Compact surface (with vibratory roller)	4.7 sta	@	\$16.00 /sta	=	\$75	

TOTAL ROCK COST = \$6,037

Compiled by:
Date:

David Bailey/Cody Valencia
Aug 7, 2020

GRAND TOTAL =====> \$7,097

SUMMARY OF CONSTRUCTION COST

SALE Little Thin on the Prairie Project # 2 LENGTH improve 117.4 sta
ROAD 13 to 14 (Surfaced)

IMPROVEMENT

Shape surface (with road grader)	117.4 sta	@	\$20.63 /sta	=	\$2,422
Ditch re-establishment (with road grader) (Sta. 16+20 to 40+20) (Sta. 80+30 to 91+30)	35.0 sta	@	\$44.00 /sta	=	\$1,540

TOTAL IMPROVEMENT = \$3,962

SURFACING

		Size	Cost/yd		
Spot rock	120 cy of	1½"-0"	\$28.69	=	\$3,443
TOTAL ROCK COST =					\$3,443

SPECIAL PROJECTS

Install 18"x30' CPP culvert (Sta. 116+40)	30 ft	@	\$13.75 /ft	=	\$413
Install Culvert (with excavator)	1 hr	@	\$175 /hr	=	\$175
Culvert bedding/backfill rock (Sta. 116+40)	10 cy of	1½"-0"	\$28.69	=	\$287
Clean out culverts (inlets and outlets)	9 culverts	@	\$50.00 ea	=	\$450
Repair culvert (Sta. 39+10, 84+70, 94+90, 109+60)	1.5 hr	@	\$45.00 /hr	=	\$68
Bedding/backfill compaction (hand held tamper and labor)	2	@	\$57.00 /hr	=	\$114
Mulch	1 Bale	@	\$12.00 /ea	=	\$12

TOTAL SPECIAL PROJECTS COST = \$1,519

Compiled by: David Bailey/Cody Valencia
Date: Aug 7, 2020

GRAND TOTAL =====> \$8,924

SUMMARY OF MAINTENANCE COST

SALE

Little Thin on the Prairie

Final log haul Maintenance Cost Estimate

(Costed in appraisal, not in project costs)

Grading

Move-in

\$ 875

Road Segment	Length	Cost/Sta	Cost	Mileage
1 to 2	144.6	\$20.63	\$2,983.10	2.74
2 to 11	16.9	\$20.63	\$348.65	0.32
3 to A	27.5	\$20.63	\$567.33	0.52
4 to 6	34.0	\$20.63	\$701.42	0.64
11 to 12	4.7	\$20.63	\$96.96	0.09
Total	227.7		\$4,697.46	4.31

Maintenance Rock:

	Volume	Cost/CY	Cost
1½"-0"	100	\$28.69	\$2,869.00

Grand Total

\$8,441.46

TS Volume

967 MBF

Cost / MBF =

\$8.73

NOTES:

Rock Haul Cost Computation

SALE NAME: Little Thin on the Prairie DATE: Aug 7, 2020
ROAD NAME: Long Prairie Creek Road CLASS: Medium
ROCK SOURCE: Cedar Creek Quarries 10 CY truck
Route: Eddyville blodgett Hwy to Sams Creek Rd to Long Prairie Rd.

TIME Computation:

Road speed time factors:

1.	55 MPH		MRT	0.0 minutes
2.	50 MPH	14.8	MRT	17.8 minutes
3.	45 MPH		MRT	0.0 minutes
4.	40 MPH	8.2	MRT	12.3 minutes
5.	35 MPH	3.6	MRT	6.2 minutes
6.	30 MPH		MRT	0.0 minutes
7.	25 MPH	2.4	MRT	5.8 minutes
8.	20 MPH	1.8	MRT	5.4 minutes
9.	15 MPH	4.3	MRT	17.2 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) 65.20 minutes

Operator efficiency correction 0.85 76.71 minutes

Job efficiency correction 0.90 85.23 minutes

Truck capacity (CY) 10.00 8.52 min/CY

Loading time, delay time per CY 0.25 min/CY

TIME (minutes) per cubic yard 8.77 min/CY

COST per CY computation

Cost of truck and operator per hour \$90.00 /hr.

Cost of truck and operator per minute \$1.50 /min

Cost per CY \$13.16 /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"	\$ 15.53	\$28.69	\$30.19
3 - 0"	\$ 13.83	\$26.99	\$28.49
Jaw Run	\$ 13.50	\$26.66	\$28.16
Pit-Run	\$ 12.15	\$25.31	\$26.81

TIMBER CRUISE REPORT

Little Thin on the Prairie (WO-341-2021-W00362-01) FY 2020

1. **Sale Area Location:** Portions of Sections 16 and 17, T10S, R9W, W.M., Lincoln County, Oregon.

2. **Fund Distribution:**

a. **Fund** CSL 100%

3. **Sale Acreage by Area:**

Unit	Treatment	Gross Acres	Stream Buffers	Existing Roads	PC Not Required	Net Sale Acres	Acreage Comp. Method
1	Partial Cut	39	2	<1	0	37	GIS
2	Partial Cut	33	2	2	<1	29	GIS
3	Partial Cut	68	5	2	12	49	GIS

4. **Cruisers and Cruise Dates:** The sale was cruised by David Bailey and Zane Sandborg April 2020.

5. **Cruise Method and Computation:** The sale consists of three thinning units that were cruised using variable radius plot sampling. Sale Unit 1 was cruised on a 6 x 6 chain grid, Unit 2 was cruised on a 4 x 6 chain grid and Unit 3 was cruised on a 7 x 7 chain grid. All three Units were cruised using a 33.61 BAF. A total of 39 plots were taken with 18 measure plots and 19 count plots.

6. Measure plots were measured for DBH, height, form factor, grade, and defect. Data was entered into the Atterbury SuperACE cruise program to determine stand statistics and net board foot volume. Additional volume was removed to account for hidden defect and breakage.

Digital ortho photos, Lidar data, and GPS data were used to map the boundaries for the sale, and ArcMap GIS was used to determine gross and net acreage.

7. **Measurement Standards:** Tree heights were measured to the nearest foot, to a top diameter of 6 inches inside bark or to 40% of form factor. Diameters at breast height (DBH) were measured to the nearest inch, and a form point of 16 feet was used to calculate form factor. Form factors were measured or estimated on every tree. Most trees were graded in 40 foot log segments unless breakage, defect, or length to top of grade cruise diameter warranted otherwise.

8. **Timber Description:** Timber in the sale area includes 115 net acres of 41 year-old plantation Douglas-fir. The average Douglas-fir to be removed in all units is approximately 13 inches DBH, with an average height of 50 feet to a merchantable top. The average volume per acre to be harvested (net) in Units 1, 2 and 3 is approximately 9.8 MBF, 8.3 MBF and 7.3 MBF, respectively. Volume for Right-of-Way was added. Conifer trees other than Douglas-fir and all hardwoods are reserved from cutting, unless present in yarding corridors or between R/W tags.

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

Unit	Target CV	Target SE	Actual CV	Actual SE
1	45%	15%	26.4%	8.0%
2	45%	15%	41.1%	11.8%
3	45%	15%	36.9%	10.2%

Note: Percentages are for net board foot volume.

10. Total Volume (MBF) by Species and Grade: (See attached volume report “Species, Sort Grade – Board Foot Volumes - Project”).

Unit	Gross Cruise Volume	R/W Removal (MBF)	Cruised D & B	Cruised D & B (MBF)	Hidden D & B	Hidden D & B (MBF)	Net Sale Volume
1	372	16	2.9%	(11)	1%	(4)	373
2	243	0	0%	(0)	1%	(2)	241
3	360	0	1.0%	(3)	1%	(4)	353
Total	975	16	--	(14)	--	(10)	967

Unit	Ave. DBH	Species	Net Vol.	2-Saw	3-Saw	4-Saw
1	12	DF	Grade %	7%	74%	19%
			373	26	276	71
2	13	DF	Grade%	--	86%	14%
			241	--	207	34
3	13	DF	Grade%	19%	67%	14%
			353	67	237	49
Total all Units			Grade %	10%	74%	16%
			967	93	720	154

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

Prepared by: _____

Date: _____

Unit Forester: 
Evelyn Hukari

Date: 8/7/2020

TC TSTATS				STATISTICS				PAGE	1		
				PROJECT	LTP	DATE 8/4/2020					
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt		
10S	09W	17	A3	00PC	49.00	14	82	1	W		
				TREES	ESTIMATED	PERCENT					
				PER PLOT	TOTAL	SAMPLE					
					TREES	TREES					
PLOTS		TREES									
TOTAL		14		82		5.9					
CRUISE		5		30		6.0		7,029 .4			
DBH COUNT											
REFOREST											
COUNT		9		52		5.8					
BLANKS											
100 %											
STAND SUMMARY											
SAMPLE		TREES		AVG		BOLE		REL		BASAL	
TREES		/ACRE		DBH		LEN		DEN		AREA	
										GROSS	
										BF/AC	
										NET	
										BF/AC	
										GROSS	
										CF/AC	
										NET	
										CF/AC	
DF-L		19		74.4		17.5		66		29.8	
DF-T		9		66.9		13.3		53		17.8	
WHEMLOCK-L		2		2.1		20.3		60		1.1	
TOTAL		30		143.5		15.8		60		49.0	
										194.5	
										21,441	
										21,194	
										6,733	
										6,733	
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-L		54.9		12.9		182		209		237	
DF-T		69.8		24.6		114		151		188	
WHEMLOCK-L		9.4		8.8		205		225		245	
TOTAL		57.0		10.6		173		193		213	
										134 34 15	
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-L		47.3		11.1		59		67		74	
DF-T		68.5		24.2		35		46		58	
WHEMLOCK-L		6.7		6.3		69		74		78	
TOTAL		51.7		9.6		55		61		67	
										111 28 12	
CL: 68.1 %		COEFF		TREES/ACRE				# OF PLOTS REQ.		INF. POP.	
SD: 1.0		VAR.%		S.E.%		LOW		AVG		HIGH	
										5 10 15	
DF-L		21.9		6.1		70		74		79	
DF-T		69.1		19.1		54		67		80	
WHEMLOCK-L		257.3		71.3		1		2		4	
TOTAL		39.9		11.0		128		143		159	
										68 17 8	
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-L		19.6		5.4		118		125		132	
DF-T		71.8		19.9		52		65		78	
WHEMLOCK-L		254.2		70.4		1		5		8	
TOTAL		31.9		8.8		177		194		212	
										44 11 5	
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-L		27.1		7.5		12,422		13,432		14,442	
DF-T		74.8		20.7		5,777		7,288		8,799	
WHEMLOCK-L		255.1		70.7		139		474		810	
TOTAL		36.9		10.2		19,026		21,194		23,363	
										59 15 7	
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-L		24.7		6.8		4,036		4,333		4,630	
DF-T		74.8		20.7		1,780		2,245		2,710	
WHEMLOCK-L		255.6		70.8		45		155		265	

TC		PSTNDSUM		Stand Table Summary										Page		1	
														Date:		8/4/2020	
T10S R09W S17 Ty00PC 49.00				Project LTP										Time:		7:38:02AM	
				Acres 49.00										Grown Year:			
S SpC T	DBH	Sample 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		
DF L	13	1	79	80	7.128	6.57	7.13	26.0	70.0		185	499		91	24		
DF L	14	1	83	54	6.146	6.57	6.15	23.0	60.0		141	369		69	18		
DF L	15	3	85	97	16.062	19.71	32.12	22.7	75.0		728	2,409		357	118		
DF L	17	1	80	93	4.168	6.57	8.34	28.5	90.0		238	750		116	37		
DF L	18	3	82	89	11.154	19.71	22.31	31.5	96.7		703	2,156		344	106		
DF L	19	5	85	87	16.685	32.85	30.03	37.2	115.6		1,118	3,470		548	170		
DF L	20	3	83	94	9.035	19.71	18.07	40.2	120.0		726	2,168		356	106		
DF L	22	1	80	95	2.489	6.57	4.98	46.5	135.0		231	672		113	33		
DF L	28	1	84	101	1.537	6.57	3.07	85.5	305.0		263	937		129	46		
DF L	Totals	19	83	88	74.404	124.84	132.20	32.8	101.6		4,333	13,432		2,123	658		
DF T	10	1	85	52	13.205	7.20	13.20	11.0	30.0		145	396		71	19		
DF T	11	2	84	95	21.826	14.40	32.74	14.0	46.7		458	1,528		225	75		
DF T	13	1	82	90	7.814	7.20	15.63	16.5	50.0		258	781		126	38		
DF T	14	2	84	102	13.474	14.40	26.95	19.8	65.0		532	1,752		261	86		
DF T	17	1	86	101	4.569	7.20	9.14	31.5	115.0		288	1,051		141	51		
DF T	20	1	83	95	3.301	7.20	6.60	41.5	125.0		274	825		134	40		
DF T	22	1	84	99	2.728	7.20	5.46	53.0	175.0		289	955		142	47		
DF T	Totals	9	84	88	66.918	64.82	109.72	20.5	66.4		2,245	7,288		1,100	357		
WH L	19	1	84	80	1.219	2.40	2.44	35.0	105.0		85	256		42	13		
WH L	22	1	85	64	.909	2.40	1.82	38.5	120.0		70	218		34	11		
WH L	Totals	2	84	73	2.129	4.80	4.26	36.5	111.4		155	474		76	23		
Totals		30	84	88	143.451	194.46	246.17	27.4	86.1		6,733	21,194		3,299	1,039		

T10S R09W S17 Ty00PC 49.00

Project: LTP
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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	L	DO	2M	40	223	1.9	219	33.3				179	40						
DF	L	DO	3M	32	9		9	1.4		9									
DF	L	DO	3M	34	7		7	1.1		7									
DF	L	DO	3M	36	19	8.8	17	2.6		17									
DF	L	DO	3M	38	28		28	4.2		28									
DF	L	DO	3M	40	322		320	48.6		24	118	177							
DF	L	DO	4M	18	5		5	.8		5									
DF	L	DO	4M	20	4		4	.6		4									
DF	L	DO	4M	24	10		10	1.5		5	5								
DF	L	DO	4M	26	29		29	4.4		29									
DF	L	DO	4M	30	10		10	1.6		10									
DF		Totals			666	1.2	658	63.4		139	123	177	179	40					
DF	T	DO	2M	40	71		71	19.9				32	39						
DF	T	DO	3M	28	23		23	6.5		23									
DF	T	DO	3M	34	36		36	10.0		36									
DF	T	DO	3M	36	32		32	9.0		32									
DF	T	DO	3M	38	31		31	8.6			31								
DF	T	DO	3M	40	120	2.8	117	32.7		40	36	40							
DF	T	DO	4M	18	8		8	2.1		8									
DF	T	DO	4M	20	11		11	3.0		11									
DF	T	DO	4M	28	29		29	8.2		29									
DF		Totals			360		357	34.4		156	90	40	32	39					
WH	L	DO	2M	36	10		10	42.2				10							
WH	L	DO	2M	38	11	5.3	11	46.3				11							
WH	L	DO	4M	14	1		1	3.8		1									
WH	L	DO	4M	24	2		2	7.7		2									
WH		Totals			24	2.5	23	2.2		3		21							
Total		All Species			1,051	1.2	1,039	100.0		297	213	217	232	39	40				

Species, Sort Grade - Board Foot Volumes (Project)

T10S R09W S17 Ty00PC 49.00

Project: LTP
Acres 49.00Page 1
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Spp	S	So	Gr	% Net BdFt	Bd. Ft. per Acre Def% Gross Net			Total Net MBF	Percent of Net Board Foot Volume								Average Log				Logs Per /Acre
									Log Scale Dia.				Log Length				Ln Ft	Dia In	Bd Ft	CF/ Lf	
									4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99					
DF	L	DO2M		33	1.9	4,554	4,468	219		82	18				100	40	13	226	1.69	19.7	
DF	L	DO3M		58	1.0	7,863	7,781	381		100				4	96	39	8	107	0.91	72.6	
DF	L	DO4M		9		1,183	1,183	58		100		15	85			25	6	30	0.45	39.8	
DF Totals				63	1.2	13,599	13,432	658		67	27	6	1	7	3	89	35	8	102	0.95	132.2
DF	T	DO2M		19		1,451	1,451	71		100					100	40	13	241	1.77	6.0	
DF	T	DO3M		67	1.4	4,931	4,864	238		100			10	15	75	36	7	75	0.63	65.0	
DF	T	DO4M		14		973	973	48		100		39	61			24	6	25	0.36	38.7	
DF Totals				34	.9	7,355	7,288	357		80	20		5	15	10	70	32	7	66	0.64	109.7
WH	L	DO2M		88	2.8	432	420	21		100					100	37	12	197	1.66	2.1	
WH	L	DO4M		12		55	55	3		100		33	67			20	6	26	0.57	2.1	
WH Totals				2	2.5	487	474	23		12	88		4	8		88	28	9	111	1.28	4.3
Totals					1.2	21,441	21,194	1,039		70	26	4	3	10	5	82	33	8	86	0.82	246.2

TC TSTATS				STATISTICS				PAGE 1			
				PROJECT	LTP	DATE 8/4/2020					
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt		
10S	09W	17	A2	00PC	29.00	13	78	1	W		
				TREES	ESTIMATED	PERCENT					
				PER PLOT	TOTAL	SAMPLE					
					TREES	TREES					
		PLOTS	TREES								
TOTAL		13	78	6.0							
CRUISE		6	32	5.3	4,822		.7				
DBH COUNT											
REFOREST											
COUNT		7	46	6.6							
BLANKS											
100 %											
STAND SUMMARY											
		SAMPLE	TREES	AVG	BOLE	RBL	BASAL	GROSS	NET	GROSS	NET
		TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
DF-L		24	86.9	16.5	63	31.8	129.3	14,253	14,076	4,453	4,453
DF-T		8	79.4	12.9	56	20.1	72.4	8,387	8,256	2,550	2,550
TOTAL		32	166.3	14.9	60	52.2	201.7	22,640	22,332	7,003	7,003
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-L		31.3	6.5	166	177	189					
DF-T		39.0	14.7	97	114	130					
TOTAL		36.7	6.5	151	161	172	54	13	6		
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-L		30.6	6.4	53	57	60					
DF-T		37.9	14.3	31	36	41					
TOTAL		36.4	6.4	48	51	55	53	13	6		
CL: 68.1 %		COEFF		TREES/ACRE			# OF PLOTS REQ.		INF. POP.		
SD: 1.0		VAR.%	S.E.%	LOW	AVG	HIGH	5 10		15		
DF-L		26.0	7.5	80	87	93					
DF-T		86.0	24.8	60	79	99					
TOTAL		49.3	14.2	143	166	190	105	26	12		
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-L		20.8	6.0	122	129	137					
DF-T		82.3	23.7	55	72	90					
TOTAL		37.9	10.9	180	202	224	62	16	7		
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-L		29.7	8.6	12,872	14,076	15,281					
DF-T		82.8	23.9	6,285	8,256	10,228					
TOTAL		43.7	12.6	19,518	22,332	25,147	83	21	9		
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-L		26.0	7.5	4,120	4,453	4,787					
DF-T		82.1	23.7	1,947	2,550	3,153					
TOTAL		41.1	11.8	6,174	7,003	7,833	73	18	8		

TC TSTNDSUM				Stand Table Summary											
Project LTP															
T10S R09W S17 T00PC											T10S R09W S17 T00PC				
Twp	Rge	Sec	Tract	Type				Acres	Plots	Sample Trees		Page:	1		
10S	09W	17	A2	00PC				29.00	13	32		Date:	08/04/201		
											Time:	7:39:23AM			
Spc	S	Sample		FF	Av	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net	Net	Totals	
		DBH	Trees	16'	Tot				Net	Net		Cu.Ft.	Bd.Ft.		
DF	L	11	1	80	54	8.162	5.39	8.16	14.0	30.0		114	245	33	7
DF	L	13	1	83	102	5.843	5.39	11.69	17.5	55.0		205	643	59	19
DF	L	15	4	85	96	17.556	21.54	35.11	21.9	72.5		768	2,546	223	74
DF	L	16	4	84	97	15.430	21.54	27.00	29.4	97.1		795	2,623	230	76
DF	L	17	3	84	91	10.251	16.16	20.50	28.8	96.7		591	1,982	171	57
DF	L	18	6	84	85	18.288	32.32	36.58	30.3	96.7		1,109	3,536	322	103
DF	L	19	1	82	82	2.736	5.39	5.47	33.0	100.0		181	547	52	16
DF	L	20	1	87	85	2.469	5.39	4.94	37.0	115.0		183	568	53	16
DF	L	22	3	82	76	6.121	16.16	12.24	41.5	113.3		508	1,387	147	40
DF		Totals	24	84	88	86.857	129.27	161.69	27.5	87.1		4,453	14,076	1,292	408
DF	T	11	2	84	99	27.423	18.10	41.13	14.3	50.0		590	2,057	171	60
DF	T	12	2	84	89	23.043	18.10	34.56	16.7	50.0		576	1,728	167	50
DF	T	14	1	85	111	8.465	9.05	16.93	23.0	85.0		389	1,439	113	42
DF	T	15	2	83	101	14.747	18.10	29.49	24.0	77.5		708	2,286	205	66
DF	T	17	1	82	81	5.741	9.05	11.48	25.0	65.0		287	746	83	22
DF		Totals	8	84	96	79.418	72.39	133.60	19.1	61.8		2,550	8,256	739	239
Totals			32	84	92	166.275	201.66	295.30	23.7	75.6		7003	22,332	2,031	648

T TSPCSTGR		Species, Sort Grade - Board Foot Volumes (Type)												Page 1								
		Project: LTP												Date 8/4/2020								
														Time 7:39:23AM								
T10S R09W S17 T00PC												T10S R09W S17 T00PC										
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt													
10S	09W	17	A2	00PC	29.00	13	32	1	W													
S So Gr Spp T rt ad				% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent Net Board Foot Volume								Average Log			Logs Per /Acre		
				Def%	Gross	Net	Log Scale Dia.				Log Length				Ln Dia	Bd	CF/ Lf					
DF	L	DO	2M	13	2.5	2,001	1,950	57	100				100				40	12	203	1.59	9.6	
DF	L	DO	3M	74	1.0	10,514	10,409	302	100				5 95				39	9	119	0.95	87.1	
DF	L	DO	4M	13	1.2	1,737	1,717	50	100				34	66			22	6	26	0.45	65.0	
DF	L	Totals		63	1.2	14,253	14,076	408	86	14			4	8	4	84	32	8	87	0.86	161.7	
DF	T	DO	3M	86	.8	7,178	7,120	206	100				6 94				39	7	81	0.65	87.9	
DF	T	DO	4M	14	6.1	1,209	1,136	33	10	90			55	19	26			20	6	25	0.34	45.7
DF	T	Totals		37	1.6	8,387	8,256	239	1	99			8	3	9	81	33	7	62	0.58	133.6	
Type Totals					1.4	22,640	22,332	648	1	91	9			5	6	6	83	32	7	76	0.73	295.3

Log Stock Table - MBF

T10S R09W S17 Ty00PC 29.00

Project: LTP
Acres 29.00Page 1
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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	L	DO	2M	40	58	2.5	57	13.9				57							
DF	L	DO	3M	32	11		11	2.6			11								
DF	L	DO	3M	34	6		6	1.4			6								
DF	L	DO	3M	38	46	1.9	45	11.0			7	14	24						
DF	L	DO	3M	40	243		241	59.0			14	60	167						
DF	L	DO	4M	12	1		1	.3			1								
DF	L	DO	4M	14	4		4	.9			4								
DF	L	DO	4M	16	4		4	1.1			4								
DF	L	DO	4M	18	7		7	1.6			7								
DF	L	DO	4M	20	2		2	.4			2								
DF	L	DO	4M	24	8		8	2.0			8								
DF	L	DO	4M	26	6		6	1.5			6								
DF	L	DO	4M	28	14	4.3	13	3.3			13								
DF	L	DO	4M	30	5		5	1.2			5								
DF		Totals			413	1.2	408	63.0			87	74	191	57					
DF	T	DO	3M	32	12		12	5.1			12								
DF	T	DO	3M	40	196		194	81.1			95	99							
DF	T	DO	4M	14	7		7	2.8			7								
DF	T	DO	4M	16	8		8	3.3			8								
DF	T	DO	4M	20	3		3	1.4		3									
DF	T	DO	4M	26	6		6	2.7			6								
DF	T	DO	4M	32	11	20.0	9	3.6			9								
DF		Totals			243	1.6	239	37.0		3	137	99							
Total		All Species			657	1.4	648	100.0		3	224	173	191	57					

TC TSTATS				STATISTICS				PAGE 1	
				PROJECT	LTP	DATE 8/4/2020			
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
10S	09W	17	A1	00PC	37.00	12	88	1	W
				TREES	ESTIMATED	PERCENT			
				PER PLOT	TOTAL	SAMPLE			
					TREES	TREES			

TC		TSTNDSUM															Stand Table Summary									
Project										LTP																
T10S R09W S17 T00PC															T10S R09W S17 T00PC											
Twp		Rge		Sec		Tract		Type			Acres		Plots		Sample Trees		Page: 1									
10S		09W		17		A1		00PC			37.00		12		46		Date: 08/04/2010									
																	Time: 7:40:39AM									
Spc	S	T	Sample		FF	Ht	Av	Trees/	BA/	Logs	Average Log		Net	Net	Tons/	Cu.Ft.	Bd.Ft.	Totals								
			DBH	Trees							16'	Tot						Acre	Acre	Acre	Net	Net	Acre	Acre	Acre	Tons
DF	L		13	4	86	91		24.837	22.89	49.67	14.9	50.0			739	2,484		273	92							
DF	L		14	1	85	83		5.354	5.72	10.71	16.0	50.0			171	535		63	20							
DF	L		15	5	85	94		23.319	28.62	46.64	21.4	70.0			998	3,265		369	121							
DF	L		16	3	83	87		12.297	17.17	24.59	22.3	73.3			549	1,804		203	67							
DF	L		17	3	87	93		10.893	17.17	21.79	29.2	101.7			635	2,215		235	82							
DF	L		18	2	84	88		6.478	11.45	12.96	30.5	97.5			395	1,263		146	47							
DF	L		19	4	85	81		11.627	22.89	23.25	31.1	96.2			724	2,238		268	83							
DF	L		20	1	87	86		2.623	5.72	5.25	37.0	115.0			194	603		72	22							
DF			Totals	23	85	89		97.430	131.64	194.86	22.6	73.9			4,406	14,407		1,630	533							
DF	T		9	1	88	60		11.527	5.09	11.53	11.0	50.0			127	576		47	21							
DF	T		10	3	83	60		28.010	15.28	28.01	12.3	40.0			345	1,120		128	41							
DF	T		11	6	84	70		46.298	30.55	46.30	16.5	51.7			764	2,392		283	89							
DF	T		12	1	83	81		6.484	5.09	6.48	19.0	60.0			123	389		46	14							
DF	T		13	1	82	75		5.525	5.09	5.52	26.0	70.0			144	387		53	14							
DF	T		14	1	83	73		4.764	5.09	4.76	29.0	60.0			138	286		51	11							
DF	T		15	1	82	99		4.150	5.09	8.30	23.5	70.0			195	581		72	21							
DF	T		16	4	86	77		14.589	20.37	29.18	21.4	67.5			624	1,969		231	73							
DF	T		17	2	85	84		6.461	10.18	12.92	24.3	80.0			313	1,034		116	38							
DF	T		18	1	83	79		2.882	5.09	5.76	29.5	80.0			170	461		63	17							
DF	T		19	1	76	98		2.586	5.09	5.17	38.0	110.0			197	569		73	21							
DF			Totals	22	84	71		133.276	112.03	163.94	19.2	59.6			3,140	9,765		1,162	361							
SN			16	1	98	49		2.006	2.80																	
SN			Totals	1	98	49		2.006	2.80																	
Totals			46		85	78		232.711	246.47	358.80	21.0	67.4			7546	24,172		2,792	894							

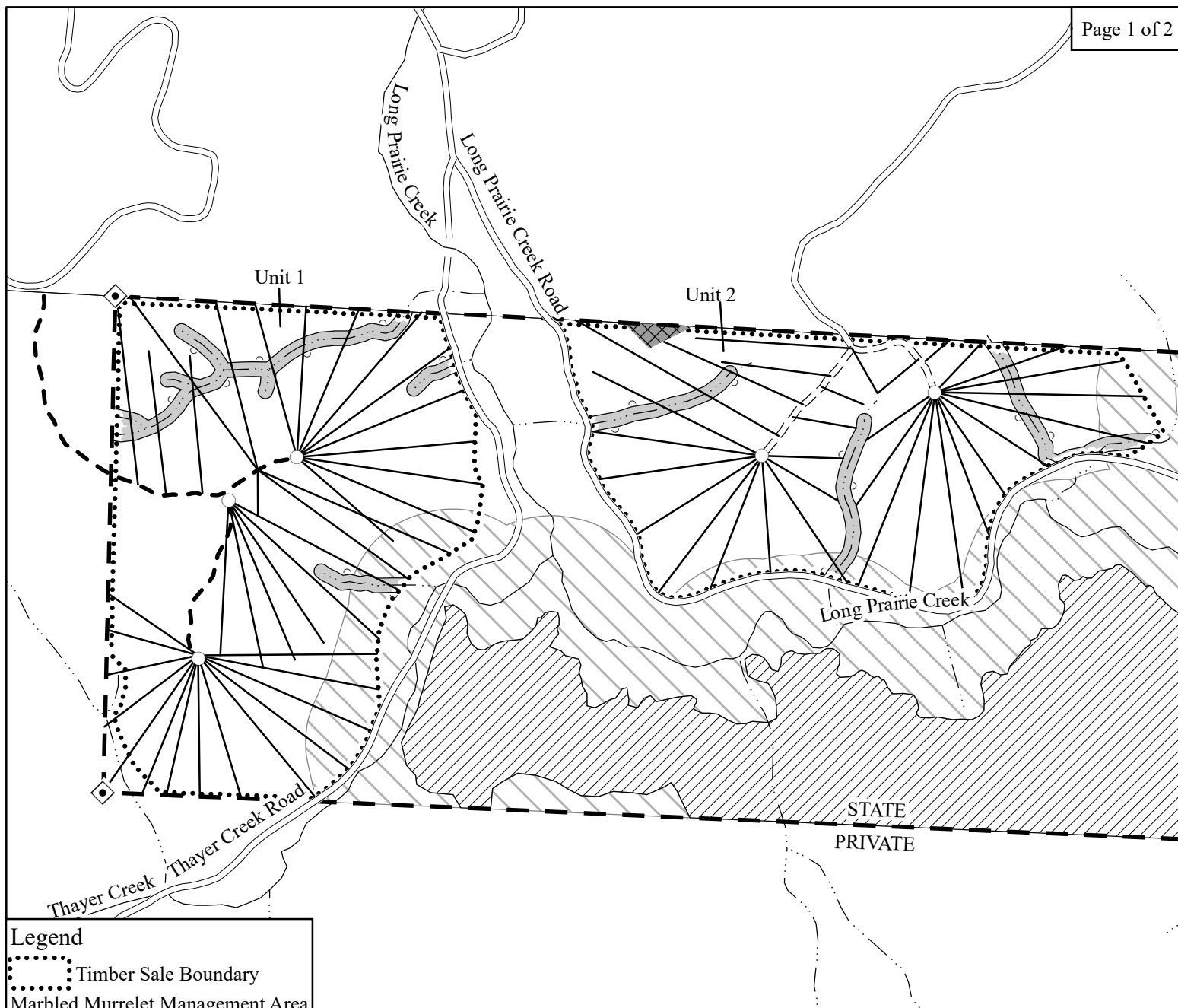
T TSPCSTGR		Species, Sort Grade - Board Foot Volumes (Type)										Page 1										
		Project: LTP										Date 8/4/2020										
												Time 7:40:39AM										
T10S R09W S17 T00PC										T10S R09W S17 T00PC												
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt													
10S	09W	17	A1	00PC	37.00	12	46	1	W													
				%				Percent Net Board Foot Volume						Average Log		Logs Per /Acre						
S So Gr Spp T rt ad				Net BdFt	Bd. Ft. per Acre Def% Gross Net			Total Net MBF	Log Scale Dia. 4-5 6-11 12-16 17+				Log Length 12-20 21-30 31-35 36-99				Ln Dia Ft In	Bd Ft	CF/ Lf			
DF	L	DO	2M	3	525 525			19	100				100				40 12	200 1.50	2.6			
DF	L	DO	3M	82	2.0	12,025	11,779	436	100				8 92				38 9	115 0.90	102.5			
DF	L	DO	4M	15	2,104 2,104			78	100				60	40					19 6	23 0.41	89.7	
DF	L	Totals		60	1.7	14,653	14,407	533	96 4				9	6	6	79	30 8	74 0.76	194.9			
DF	T	DO	2M	7	4.8	752	716	26	100				46	54					22 12	104 1.20	6.9	
DF	T	DO	3M	74	2.0	7,364	7,220	267	100				12 88				39 7	75 0.62	95.9			
DF	T	DO	4M	19	5.6	1,938	1,829	68	35	65					15	43	42	26 6	30 0.40	61.1		
DF	T	Totals		40	2.9	10,055	9,765	361	7	86	7					6	12	16	65	33 7	60 0.57	163.9
Type Totals					2.2	24,708	24,172	894	3	92	5					8	8	10	74	31 7	67 0.67	358.8

Log Stock Table - MBF

T10S R09W S17 Ty00PC 37.00

Project: LTP
Acres 37.00Page 1
Date 8/4/2020
Time 7:40:39AM

Spp	S T	So rt	Gr de	Log Len	Gross MBF	Def %	Net MBF	% Spe	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	L	DO	2M	40	19		19	3.6					19							
DF	L	DO	3M	32	34	4.4	33	6.1				16	17							
DF	L	DO	3M	36	29		29	5.5			17	12								
DF	L	DO	3M	38	71		71	13.4				53	18							
DF	L	DO	3M	40	310	2.5	302	56.7				93	209							
DF	L	DO	4M	12	2		2	.4			2									
DF	L	DO	4M	14	3		3	.6			3									
DF	L	DO	4M	16	15		15	2.9			15									
DF	L	DO	4M	18	15		15	2.8			15									
DF	L	DO	4M	20	11		11	2.1			4	7								
DF	L	DO	4M	24	15		15	2.9			15									
DF	L	DO	4M	26	12		12	2.2			12									
DF	L	DO	4M	28	4		4	.8			4									
DF		Totals			542	1.7	533	59.6			88	181	244	19						
DF	T	DO	2M	20	13	10.0	12	3.4					12							
DF	T	DO	2M	24	14		14	4.0					14							
DF	T	DO	3M	32	9		9	2.6				9								
DF	T	DO	3M	34	21		21	5.9			21									
DF	T	DO	3M	36	31		31	8.5			17	13								
DF	T	DO	3M	40	211	2.5	206	56.9			119	17	69							
DF	T	DO	4M	14	3		3	.7			3									
DF	T	DO	4M	16	3		3	.7			3									
DF	T	DO	4M	20	5		5	1.3			5									
DF	T	DO	4M	24	4		4	1.1			4									
DF	T	DO	4M	26	25		25	7.0			25									
DF	T	DO	4M	32	5		5	1.3			5									
DF	T	DO	4M	33	16	25.0	12	3.4		12										
DF	T	DO	4M	34	11		11	3.2		11										
DF		Totals			372	2.9	361	40.4		24	202	40	69	26						
Total		All Species			914	2.2	894	100.0		24	290	221	313	46						



Legend

Timber Sale Boundary
Marbled Murrelet Management Area

Occupied Habitat
Non-Habitat Buffer
Partial Cut Not Required

Roads

Surfaced Road
Unsurfaced Road
New Construction

Streams

Type F Stream
Type N Stream
Unknown Stream
Unposted Stream Buffer
Stream Buffer
Cable Corridor
Landing
Land Survey Monument

LOGGING PLAN

OF TIMBER SALE CONTRACT NO.
WO-341-2021-W00362-01
LITTLE THIN ON THE PRAIRIE
PORTIONS OF SECTIONS 16 & 17
OF T10S, R09W, W.M.,
LINCOLN COUNTY, OREGON.

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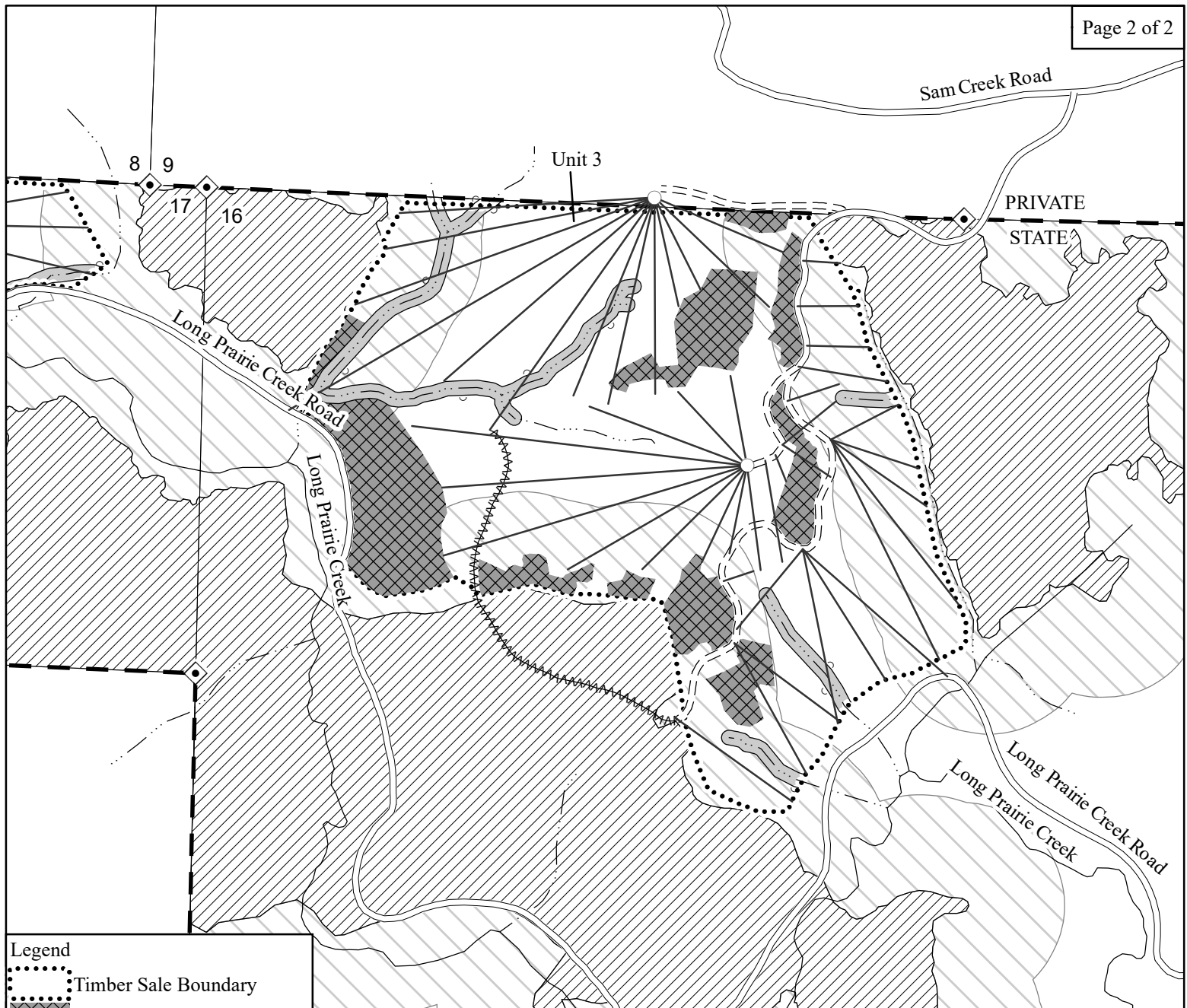
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UNIT	TRACTOR ACRES	CABLE ACRES
1 (PC)	4	33
2 (PC)	0	29
3 (PC)	0	49
TOTAL	4	111



Date: 08/04/2020



Legend	
	Timber Sale Boundary
	Partial Cut Not Required
Marbled Murrelet Management Area	
	Occupied Habitat
	Non-Habitat Buffer
Roads	
	Surfaced Road
	Unsurfaced Road
	Vacated Road
Streams	
	Type F Stream
	Type N Stream
	Unknown Stream
	Unposted Stream Buffer
	Stream Buffer
	Cable Corridor
	Landing
	Land Survey Monument

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OF TIMBER SALE CONTRACT NO.
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Scale
1:6,000



UNIT	TRACTOR ACRES	CABLE ACRES
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2 (PC)	0	29
3 (PC)	0	49
TOTAL	4	111



Date: 08/04/2020