



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
South Fork Trask
Sale TL-341-2024-W01042-01

District: Tillamook

Date: March 01, 2023

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$2,327,985.25	\$201,326.40	\$2,529,311.65
		Project Work:	(\$467,880.00)
		Advertised Value:	\$2,061,431.65



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Timber Description

Location: Section(s)23,24,25, of T2S R8W, Section(s) 31,32 of T2S R7W Section (s) 6, 5 of T3S R7W W.M.

Stand Stocking: 80%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	17	0	100
Alder (Red)	15	0	100

Volume by Grade	2S	3S & 4S 6"-11"	8" - 9"	10" - 11"	12"+	6" - 7"	Total
Douglas - Fir	2,682	3,413	0	0	0	0	6,095
Alder (Red)	0	0	233	163	256	340	992
Total	2,682	3,413	233	163	256	340	7,087

Comments:

Additional Costs – South Fork Trask

Pond Values Used: March 2023

Region: Astoria, Forest Grove, and Tillamook

Western red cedar and other cedars stumpage price = \$1,361/MBF - \$392.65/MBF = \$968.35/MBF

Western hemlock and other conifers stumpage price = \$537/MBF - \$392.65/MBF = \$144.35/MBF.

Pulp (Conifer and Hardwood) Price = \$2.50/Ton

FUEL COST ALLOWANCE = \$5.00/Gallon

HAULING COST ALLOWANCE (\$120.00/hr x 10 hr.= \$ 1,200.00) = \$1,200/DAY

BRAND AND PAINT ALLOWANCE = \$2.00/ MBF

Other costs with profit and risk added:

Non-Project #1: \$218/station x 8+25 = \$1800

Machine time to block/waterbar dirt roads and skid trails: 4 x \$100/spur = \$400

GRADER-ASSIST (Area 2 landing #9) 196 MBF x \$16.70/MBF = \$3273

TOTAL Other Costs with profit and risk to be added = \$5,473

Other Costs with no Profit and Risk Added:

Slash piling and sorting (Cable Settings): \$5.15/ac x 254 ac. = \$1310

Heliport Construction: \$200/unit x 3 unit = \$600

Move-in Machine Cleaning: \$1,000/machine x 2 machines x 2 season = \$4,000

Tail hold dozer move-in: \$1,000/machine x 2 machines = \$2,000

Ditch Cleaning and Bank Sluff Removal:

Mobilization: two time – dump truck w/ tilt bed & small excavator: \$950 x 2 = \$1,900

Small excavator (Cat 312 or equivalent): 40 hours @ \$145/hr = \$5,800

Dump truck: 40 hours @ \$95/ hour = \$3,800

TOTAL Other Costs with no Profit and Risk added = \$19,410

ODF Road Maintenance

Spot Rocking: 20cy/MMBF/mile x 7.087 MMBF x \$15.00/cy x 21.6 miles /7,087 MBF = \$6.48/MBF

Interim Grading: \$1,150/mile x 8 miles x 2 times/ 7,087 MBF = \$2.59/MBF

Final Maintenance Grading: \$1,500/mile x 21 miles/ 7,087 MBF = \$4.44/MBF

Final Maintenance Compaction: \$1,000/mile x 6 miles/7,087 MBF = \$0.84/MBF

Total Road Maintenance: = \$14.35/MBF



"STEWARDSHIP IN FORESTRY"

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District: Tillamook

Date: March 01, 2023

Logging Conditions

Combination#: 1 Douglas - Fir 93.63%
 Alder (Red) 91.15%

Logging System: Cable: Medium Tower >40 - <70 **Process:** Harvester Head Delimiting

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

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

loads / day: 7 **bd. ft / load:** 4200

cost / mbf: \$271.36

machines: Log Loader (A)
 Forwarder
 Harvester
 Tower Yarder (Medium)

Combination#: 2 Douglas - Fir 6.37%
 Alder (Red) 8.85%

Logging System: Shovel **Process:** Harvester Head Delimiting

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

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

loads / day: 16 **bd. ft / load:** 4200

cost / mbf: \$148.81

machines: Forwarder
 Harvester



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
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District: Tillamook

Date: March 01, 2023

Logging Costs

Operating Seasons: 3.00	Profit Risk: 3%
Project Costs: \$467,880.00	Other Costs (P/R): \$5,473.00
Slash Disposal: \$0.00	Other Costs: \$19,410.00

Miles of Road

Road Maintenance: \$14.35

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
Alder (Red)	\$0.00	3.0	4.6



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
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District: Tillamook

Date: March 01, 2023

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas - Fir									
\$263.55	\$14.35	\$7.36	\$90.58	\$0.77	\$11.30	\$0.00	\$2.00	\$2.74	\$392.65
Alder (Red)									
\$260.52	\$14.35	\$7.36	\$90.58	\$0.77	\$11.21	\$0.00	\$2.00	\$2.74	\$389.53

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$774.60	\$381.95	\$0.00
Alder (Red)	\$0.00	\$592.48	\$202.95	\$0.00



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
South Fork Trask
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Summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00
Alder (Red)	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	6,095	\$381.95	\$2,327,985.25
Alder (Red)	992	\$202.95	\$201,326.40

Gross Timber Sale Value

Recovery: \$2,529,311.65

Prepared By: Andrew Ayres

Phone: 503-815-7041



"STEWARDSHIP IN FORESTRY"

South Fork Trask

Volume Summary

Area 1-Modified Clearcut				
112 acres				
SPECIES	Cruised Net	Cruised Net	Hidden	Net Sale
	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	19.244	2155.3	2%	2112
Red Alder	7.381	826.7	4%	794
TOTAL	26.63	2982		2906

Areas 2-Modified Clearcut				
102 acres				
SPECIES	Cruised Net	Cruised Net	Hidden	Net Sale
	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	28.813	2938.9	2%	2880
Alder	1.246	127.1	4%	122
TOTAL	30.06	3066		3002

Areas 3-Modified Clearcut				
48 acres				
SPECIES	Cruised Net	Cruised Net	Hidden	Net Sale
	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	23.433	1125	2%	1103
Alder	1.638	79	4%	76
TOTAL	25.1	1204		1179



"STEWARDSHIP IN FORESTRY"

South Fork Trask

Volume Summary

TOTAL SALE VOLUME		
	262	acres
SPECIES	Cruised Net (MBF)	Net Sale (MBF)
Douglas-fir	6219	6095
Red Alder	1033	992
TOTAL	7252	7087



PROJECT SUMMARY SHEET

Sale: South Fork Trask

CONSTRUCTION

Point	C to D	15+75	stations =	\$40,658.70
Point	E to F	13+45	stations =	\$12,732.96
Point	G to H	6+10	stations =	\$25,504.58
Point	I to J	2+00	stations =	\$7,059.20
Point	O to P	1+70	stations =	\$3,219.86
Point	U to V	13+30	stations =	\$37,393.94
Point	Y to Z	15+80	stations =	\$47,502.74
SUBTOTAL CONSTRUCTION				\$174,071.98

IMPROVEMENT

Point	A to B	247+90	stations =	\$21,577.54
Point	C to D	30+55	stations =	\$38,029.13
Point	M to N	5+70	stations =	\$6,304.86
Point	Q to R	12+95	stations =	\$2,109.71
Point	W to X	5+85	stations =	\$2,593.41
Point	AA to BB	27+30	stations =	\$3,802.14
SUBTOTAL IMPROVEMENT				\$74,416.79

RECONSTRUCTION

Point	C to D	35+20	stations =	\$47,001.90
Point	S to T	24+60	stations =	\$73,316.46
Point	W to X	5+75	stations =	\$2,549.07
SUBTOTAL RECONSTRUCTION				\$122,867.43

SPECIAL PROJECTS

South Fork Trask Pit Exploration(24hrs excavator)	\$5,280.00
South Fork Trask Pit Skidding & Decking	\$2,640.00
Stream Enhancement - Project No. 3	\$25,000.00
Crush & Stockpile 3,000yds 2"-0" North Fork Trask Pit	\$50,700.00
Crush & Stockpile 500yds 4"-0" North Fork Trask Pit	\$8,675.00
SUBTOTAL SPECIAL PROJECTS	\$92,295.00

MOVE IN

\$4,228.80

GRAND TOTAL

\$467,880.00

SUMMARY OF CONSTRUCTION COST

Sale: **South Fork Trask**

Road: **A to B**

<u>Construction -</u>	0+00	stations	<u>Improvement -</u>	247+90	stations	<u>Reconstruction -</u>	0+00	stations
	0.00	miles		4.70	miles		0.00	miles

CULVERTS - MATERIALS & INSTALLATION

<u>Culverts</u>	10	LF of 8"		\$80.00
				\$80.00
<u>Culvert Stakes & Markers</u>				
	8	markers		\$72.00

TOTAL CULVERTS **\$152.00**

ROCK

Spot Rock	As Directed	100	cy. of	Crushed	@	\$31.07 per c.y. =	\$3,107.00
Erosion Control	87+55	10	cy. of	Pitrun	@	\$28.00 per c.y. =	\$280.00
TOTAL ROCK							\$3,387.00

SPECIAL PROJECTS

Construct waste areas -	1.00	hours @	\$220.00	per hour	\$220.00	
Construct ditchouts -	2.00	@	\$60.00	each	\$120.00	
Ditch - No Endhaul	48.05	stations @	\$90.00	per station	\$4,324.50	
Ditch - Endhaul	23.65	stations @	\$145.00	per station	\$3,429.25	
Grade and shape road -	227.05	stations @	\$24.40	per station	\$5,540.02	
Roll existing rock w/ vibratory roller-45+40-171+60	227.05	stations @	\$19.40	per station	\$4,404.77	
TOTAL SPECIAL PROJECTS						\$18,038.54

GRAND TOTAL **\$21,577.54**

SUMMARY OF CONSTRUCTION COST

Sale: **South Fork Trask**

Road: **C to D**

Construction -	15+75	stations	Improvement -	30+55	stations	Reconstruction -	35+20	stations
	0.30	miles		0.58	miles		0.67	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station	=	Drill & Shoot	Endhaul	
34+75		40+10	5%		Ditch	\$183	=			\$979.05
40+10		44+10	23%		Ditch	\$253	=			\$1,012.00
44+10		46+50	9%		Ditch	\$183	=			\$439.20
46+50		47+67	33%		Ditch	\$356	=			\$416.52
47+67		49+80	67%		Ditch	\$3,746	=		\$9,595.00	\$17,573.98
49+80		50+50	50%		Ditch	\$903	=			\$632.10
TOTAL										\$21,052.85

RECONSTRUCTION: CLEARING AND GRUBBING -

Widening	0.050	acres @	\$955.00	per acre =	\$47.75
Scattering(50+50 to 81+50)	0.854	acres @	\$1,415.00	per acre =	\$1,208.41
Piling(30+55 to 34+75)	0.12	acres @	\$1,315.00	per acre =	\$157.80
TOTAL CLEARING AND GRUBBING					\$1,413.96

RECONSTRUCTION: EXCAVATION -

Widening	524	cy. @	\$2.20	per c.y. =	\$1,152.80
TOTAL EXCAVATION					\$1,152.80

RECONSTRUCTION: ENDHAUL -

Widening	76+05	to	76+55	181	cy. @	\$1.82	per c.y. =	\$329.42
Spread & compact				524	cy. @	\$0.55	per c.y. =	\$288.20
TOTAL ENDHAUL								\$617.62

CULVERTS - MATERIALS & INSTALLATION

<u>Culverts</u>	170	LF of 18"	\$4,292.50	
			\$4,292.50	
<u>Culvert Stakes & Markers</u>		5 markers	\$45.00	
TOTAL CULVERTS				\$4,337.50

ROCK

3+55	to	30+55	470	cy. of	Crushed	@	\$26.72	per c.y. =	\$12,558.40
13+90	to	30+55	590	cy. of	Crushed	@	\$27.18	per c.y. =	\$16,036.20
30+55	to	63+35	1,820	cy. of	Crushed	@	\$27.70	per c.y. =	\$50,414.00
Spot Rock		As Directed	10	cy. of	Crushed	@	\$26.75	per c.y. =	\$267.50
Energy Dissipator		5yd/culvert	30	cy. of	Rip Rap	@	\$25.56	per c.y. =	\$766.80
Intersection Widening		30+55	30	cy. of	Crushed	@	\$27.36	per c.y. =	\$820.80
Widening		60+90	50	cy. of	Crushed	@	\$28.00	per c.y. =	\$1,400.00
Ditch Armoring		50+25	5	cy. of	Rip Rap	@	\$24.97	per c.y. =	\$124.85
Traction Rock		50+80	80	cy. of	Crushed	@	\$26.71	per c.y. =	\$2,136.80
TOTAL ROCK									\$84,525.35

SPECIAL PROJECTS

Construct Landings	1.00	hours @	\$220.00	per hour	\$220.00
Remove branches(13+90 to 30+55) and 500ft beyond	6.00	hours @	\$220.00	per hour	\$1,320.00
Construct waste areas -	3.00	hours @	\$220.00	per hour	\$660.00
Construct ditchouts -	2.00	@	\$60.00	each	\$120.00
Ditch - No Endhaul	24.02	stations @	\$90.00	per station	\$2,161.80
Ditch - Endhaul	10.63	stations @	\$145.00	per station	\$1,541.35
Endhaul stumps from landing -	0.25	hours @	\$385.00	per hour	\$96.25
Grade and shape road -	86.50	stations @	\$24.40	per station	\$2,110.60
Roll subgrade w/ vibratory roller prior to rocking -	86.50	stations @	\$19.40	per station	\$1,678.10
Remove large stumps -	15.00	@	\$110.00	each	\$1,650.00
Grass seed and fertilize -	2.63	acres @	\$310.00	per acre	\$815.30
Mulching -	0.250	acres @	\$865.00	per acre	\$216.25
TOTAL SPECIAL PROJECTS					\$12,589.65

GRAND TOTAL **\$125,689.73**

SUMMARY OF CONSTRUCTION COST

Sale: **South Fork Trask**

Road: **E to F**

Construction -	13+45	stations	Improvement -	0+00	stations	Reconstruction -	0+00	stations
	0.25	miles		0.00	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station	=	Drill & Shoot	Endhaul	
0+00		0+45	17%			\$148	=			\$66.60
0+45		2+95	27%			\$229	=			\$572.50
2+95		3+75	62%			\$2,071	=			\$1,656.80
3+75		7+60	23%			\$193	=			\$743.05
7+60		10+00	10%			\$125	=			\$300.00
10+00		13+45	17%			\$148	=			\$510.60
TOTAL										\$3,849.55

CULVERTS - MATERIALS & INSTALLATION

<u>Culverts</u>	60	LF of 18"	\$1,515.00	
			\$1,515.00	
<u>Culvert Stakes & Markers</u>				
	2	markers	\$18.00	
TOTAL CULVERTS				\$1,533.00

ROCK

0+00 to	1+00	50	cy. of	Crushed	@	\$27.97	per c.y.=	\$1,398.50
Intersection Widening	0+00	70	cy. of	Crushed	@	\$27.83	per c.y.=	\$1,948.10
TOTAL ROCK								\$3,346.60

SPECIAL PROJECTS

Construct Landings	1.00	hours @	\$220.00	per hour	\$220.00	
Construct ditchouts -	1.00	@	\$60.00	each	\$60.00	
Endhaul stumps from landing -	0.50	hours @	\$385.00	per hour	\$192.50	
Grade and shape road -	13.45	stations @	\$24.40	per station	\$328.18	
Roll subgrade	13.45	stations @	\$19.40	per station	\$260.93	
Remove large stumps -	25.00	lump sum @	\$110.00	each	\$2,750.00	
Grass seed and fertilize -	0.62	acres @	\$310.00	per acre	\$192.20	
TOTAL SPECIAL PROJECTS						\$4,003.81

GRAND TOTAL **\$12,732.96**

SUMMARY OF CONSTRUCTION COST

Sale: **South Fork Trask**

Road: **G to H**

Construction -	6+10	stations	Improvement -	0+00	stations	Reconstruction -	0+00	stations
	0.12	miles		0.00	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station	=	Drill & Shoot	Endhaul	
0+00		3+70	9%			\$103	=			\$381.10
3+70		5+55	20%			\$193	=		\$ 7,365.00	\$7,722.05
5+55		6+10	10%			\$125	=			\$68.75
									TOTAL	\$8,171.90

CULVERTS - MATERIALS & INSTALLATION

<u>Culverts</u>	30	LF of 18"	\$757.50	
<u>Culvert Stakes & Markers</u>	1	markers	\$9.00	
				TOTAL CULVERTS
				\$766.50

ROCK

0+00 to	6+10	350	cy. of	Crushed	@	\$27.99	per c.y.=	\$9,796.50
Traction Rock	As Directed	20	cy. of	Crushed	@	\$27.93	per c.y.=	\$558.60
Intersection Widening	0+00	30	cy. of	Crushed	@	\$27.93	per c.y.=	\$837.90
Landing Rock	3+25	50	cy. of	Crushed	@	\$28.00	per c.y.=	\$1,400.00
Landing Rock	6+10	70	cy. of	Crushed	@	\$28.06	per c.y.=	\$1,964.20
								TOTAL ROCK
								\$14,557.20

SPECIAL PROJECTS

Construct Landings	2.00	hours @	\$220.00	per hour	\$440.00
Construct ditchouts -	1.00	@	\$60.00	each	\$60.00
Endhaul stumps from landing -	1.00	hours @	\$385.00	per hour	\$385.00
Grade and shape road -	6.10	stations @	\$24.40	per station	\$148.84
Roll subgrade	6.10	stations @	\$19.40	per station	\$118.34
Remove large stumps -	7.00	lump sum @	\$110.00	each	\$770.00
Grass seed and fertilize -	0.28	acres @	\$310.00	per acre	\$86.80
					TOTAL SPECIAL PROJECTS
					\$2,008.98

GRAND TOTAL **\$25,504.58**

SUMMARY OF CONSTRUCTION COST

Sale: **South Fork Trask**

Road: **I to J**

Construction -	2+00	stations	Improvement -	0+00	stations	Reconstruction -	0+00	stations
	0.04	miles		0.00	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station	=	Drill & Shoot	Endhaul	
0+00		2+00	5%			\$103				\$206.00
									TOTAL	\$206.00

ROCK

0+00 to	2+00	100	cy. of	Crushed	@	\$28.02	per c.y.=	\$2,802.00	
Approach Widening	0+00	30	cy. of	Crushed	@	\$28.00	per c.y.=	\$840.00	
Landing Rock	2+00	80	cy. of	Crushed	@	\$28.04	per c.y.=	\$2,243.20	
								TOTAL ROCK	\$5,885.20

SPECIAL PROJECTS

Construct Landings	1.00	hours @	\$220.00	per hour	\$220.00	
Endhaul stumps from landing -	0.50	hours @	\$385.00	per hour	\$192.50	
Grade and shape road -	2.00	stations @	\$24.40	per station	\$48.80	
Roll subgrade	2.00	stations @	\$19.40	per station	\$38.80	
Remove large stumps -	4.00	lump sum @	\$110.00	each	\$440.00	
Grass seed and fertilize -	0.09	acres @	\$310.00	per acre	\$27.90	
					TOTAL SPECIAL PROJECTS	\$968.00

GRAND TOTAL **\$7,059.20**

SUMMARY OF CONSTRUCTION COST

Sale: **South Fork Trask**

Road: **M to N**

<u>Construction -</u>	<u>0+00</u>	stations	<u>Improvement -</u>	<u>5+70</u>	stations	<u>Reconstruction -</u>	<u>0+00</u>	stations
	0.00	miles		0.11	miles		0.00	miles

ROCK

0+00 to	5+70	460 cy. of	Pitrun	@	\$10.26 per c.y.=	\$4,719.60
Intersection Widening	0+00	50 cy. of	Pitrun	@	\$10.20 per c.y.=	\$510.00
Landing Rock	5+70	80 cy. of	Pitrun	@	\$10.32 per c.y.=	\$825.60
TOTAL ROCK						\$6,055.20

SPECIAL PROJECTS

Grade and shape road -	5.70	stations @	\$24.40	per station	\$139.08
Roll subgrade w/ vibratory roller prior to rocking -	5.70	stations @	\$19.40	per station	\$110.58
TOTAL SPECIAL PROJECTS					\$249.66

GRAND TOTAL **\$6,304.86**

SUMMARY OF CONSTRUCTION COST

Sale:

South Fork Trask

Road:

O to P

<u>Construction -</u>	1+70	stations	<u>Improvement -</u>	0+00	stations	<u>Reconstruction -</u>	0+00	stations
	0.03	miles		0.00	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

<u>Station</u>	<u>to</u>	<u>Station</u>	<u>Avg. Sideslope</u>	<u>Avg. Dist.</u> <u>To W.A. (mi.)</u>	<u>Outslope/Ditch</u>	<u>Cost per Station</u>	=	<u>Drill & Shoot</u>	<u>Endhaul</u>	
0+00		1+70	10%			\$125				\$212.50
									TOTAL	\$212.50

ROCK

0+00 to	1+70	120	cy. of	Pitrun	@	\$10.34 per c.y.=		\$1,240.80	
Intersection Widening	0+00	30	cy. of	Pitrun	@	\$10.32 per c.y.=		\$309.60	
Landing Rock	1+70	70	cy. of	Pitrun	@	\$10.36 per c.y.=		\$725.20	
								TOTAL ROCK	\$2,275.60

SPECIAL PROJECTS

Construct Landings	2.00	hours @	\$220.00	per hour		\$440.00	
Endhaul stumps from landing -	0.50	hours @	\$385.00	per hour		\$192.50	
Grade and shape road -	1.70	stations @	\$24.40	per station		\$41.48	
Roll subgrade w/ vibratory roller prior to rocking -	1.70	stations @	\$19.40	per station		\$32.98	
Grass seed and fertilize -	0.08	acres @	\$310.00	per acre		\$24.80	
						TOTAL SPECIAL PROJECTS	\$731.76

GRAND TOTAL **\$3,219.86**

SUMMARY OF CONSTRUCTION COST

Sale: **South Fork Trask**

Road: **Q to R**

<u>Construction -</u>	<u>0+00</u>	stations	<u>Improvement -</u>	<u>12+95</u>	stations	<u>Reconstruction -</u>	<u>0+00</u>	stations
	0.00	miles		0.25	miles		0.00	miles

ROCK

Landing Rock	0+00	70	cy. of	Pitrun	@	\$10.25 per c.y.=	\$717.50	
							TOTAL ROCK	\$717.50

SPECIAL PROJECTS

Construct Landings	2.00	hours @	\$220.00	per hour	\$440.00
Remove vegetation within 5ft of road edge and endhaul	1.00	hours @	\$385.00	per hour	\$385.00
Grade and shape road -	12.95	stations @	\$24.40	per station	\$315.98
Roll subgrade w/ vibratory roller prior to rocking -	12.95	stations @	\$19.40	per station	\$251.23
					TOTAL SPECIAL PROJECTS
					\$1,392.21

GRAND TOTAL **\$2,109.71**

SUMMARY OF CONSTRUCTION COST

Sale: **South Fork Trask**

Road: **S to T**

<u>Construction -</u>	0+00	stations	<u>Improvement -</u>	0+00	stations	<u>Reconstruction -</u>	24+60	stations
	0.00	miles		0.00	miles		0.47	miles

RECONSTRUCTION: CLEARING AND GRUBBING -

Side cast	0.042	acres @	\$955.00	per acre =	\$40.11
Widening	0.106	acres @	\$955.00	per acre =	\$101.23
Running surface clearing	0.678	acres @	\$1,415.00	per acre =	\$959.37
TOTAL CLEARING AND GRUBBING					\$1,100.71

RECONSTRUCTION: EXCAVATION -

Road Earthwork	24.60	sta. @	\$10.00	per sta. =	\$246.00
Pullback	133	cy. @	\$2.20	per c.y. =	\$292.60
Widening	1429	cy. @	\$2.20	per c.y. =	\$3,143.80
Fill Reconstruction	50	cy. @	\$2.20	per c.y. =	\$110.00
TOTAL EXCAVATION					\$3,792.40

RECONSTRUCTION: ENDHAUL -

Pullback	11+05	to	11+90	38	cy. @	\$1.61	per c.y. =	\$61.18
Pullback	18+20	to	19+00	87	cy. @	\$1.87	per c.y. =	\$162.69
Pullback	20+30	to	20+40	8	cy. @	\$1.93	per c.y. =	\$15.44
Widening	11+05	to	11+90	155	cy. @	\$1.61	per c.y. =	\$249.55
Widening	17+90	to	19+50	1156	cy. @	\$1.87	per c.y. =	\$2,161.72
Widening	20+30	to	20+95	118	cy. @	\$1.93	per c.y. =	\$227.74
Vegetation	9+85	to	24+60	50	cy. @	\$1.53	per c.y. =	\$76.50
Fill Reconstruction	20+40	to	20+60	50	cy. @	\$1.65	per c.y. =	\$82.50
Spread & compact				1662	cy. @	\$0.55	per c.y. =	\$914.10
TOTAL ENDHAUL								\$3,951.42

CULVERTS - MATERIALS & INSTALLATION

<u>Culverts</u>	150	LF of 18"	\$3,787.50	40	LF of 24"	\$1,530.00
<u>Culvert Stakes & Markers</u>		6 markers	\$54.00			
TOTAL CULVERTS						\$5,371.50

ROCK

0+00 to	24+60	1,430	cy. of	Crushed	@	\$29.41	per c.y. =	\$42,056.30
Intersection Widening	0+00	50	cy. of	Crushed	@	\$29.15	per c.y. =	\$1,457.50
Energy Dissipator	5yds each	30	cy. of	Rip Rap	@	\$27.02	per c.y. =	\$810.60
Fill Reconstruction	20+60	200	cy. of	Pitrun	@	\$29.59	per c.y. =	\$5,918.00
Landing Rock	24+60	100	cy. of	Crushed	@	\$29.67	per c.y. =	\$2,967.00
TOTAL ROCK								\$53,209.40

SPECIAL PROJECTS

Construct Landings	1.00	hours @	\$220.00	per hour	\$220.00
Construct waste areas -	2.00	hours @	\$220.00	per hour	\$440.00
Ditch - No Endhaul	9.85	stations @	\$90.00	per station	\$886.50
Ditch - Endhaul	14.75	stations @	\$145.00	per station	\$2,138.75
Endhaul stumps from landing -	1.00	hours @	\$385.00	per hour	\$385.00
Grade and shape road -	24.60	stations @	\$24.40	per station	\$600.24
Roll subgrade w/ vibratory roller prior to rocking -	24.60	stations @	\$19.40	per station	\$477.24
Remove large stumps -	2.00	lump sum @	\$110.00	each	\$220.00
Grass seed and fertilize -	1.13	acres @	\$310.00	per acre	\$350.30
Mulching -	0.20	acres @	\$865.00	per acre	\$173.00
TOTAL SPECIAL PROJECTS					\$5,891.03

GRAND TOTAL **\$73,316.46**

SUMMARY OF CONSTRUCTION COST

Sale: **South Fork Trask**

Road: **U to V**

Construction -	13+30	stations	Improvement -	0+00	stations	Reconstruction -	0+00	stations
	0.25	miles		0.00	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station	=	Drill & Shoot	Endhaul	
0+00		2+80	20%			\$193	=			\$540.40
2+80		7+15	45%			\$373	=			\$1,622.55
7+15		9+40	30%			\$265	=			\$596.25
9+40		13+30	5%			\$103	=			\$401.70
									TOTAL	\$3,160.90

CULVERTS - MATERIALS & INSTALLATION

<u>Culverts</u>	30	LF of 18"	\$757.50
<u>Culvert Stakes & Markers</u>	1	markers	\$9.00

TOTAL CULVERTS \$766.50

ROCK

0+00 to	13+30	780	cy. of	Crushed	@	\$29.80	per c.y.=	\$23,244.00
0+00 to	7+15	80	cy. of	Crushed	@	\$29.66	per c.y.=	\$2,372.80
Intersection Widening	0+00	30	cy. of	Crushed	@	\$29.66	per c.y.=	\$889.80
Switchback	0+75	50	cy. of	Crushed	@	\$29.70	per c.y.=	\$1,485.00
Landing Rock	12+00	100	cy. of	Crushed	@	\$29.91	per c.y.=	\$2,991.00
Energy Dissipator	7+15	5	cy. of	Rip Rap	@	\$27.96	per c.y.=	\$139.80
								TOTAL ROCK \$31,122.40

SPECIAL PROJECTS

Construct Landings	2.00	hours @	\$220.00	per hour	\$440.00
Construct ditchouts -	1.00	@	\$60.00	each	\$60.00
Endhaul stumps from landing -	0.50	hours @	\$385.00	per hour	\$192.50
Grade and shape road -	13.30	stations @	\$24.40	per station	\$324.52
Roll subgrade w/ vibratory roller prior to rocking -	13.30	stations @	\$19.40	per station	\$258.02
Remove large stumps -	8.00	lump sum @	\$110.00	each	\$880.00
Grass seed and fertilize -	0.61	acres @	\$310.00	per acre	\$189.10
					TOTAL SPECIAL PROJECTS \$2,344.14

GRAND TOTAL **\$37,393.94**

SUMMARY OF CONSTRUCTION COST

Sale: **South Fork Trask**

Road: **W to X**

<u>Construction -</u>	<u>0+00</u>	stations	<u>Improvement -</u>	<u>5+85</u>	stations	<u>Reconstruction -</u>	<u>5+75</u>	stations
	0.00	miles		0.11	miles		0.11	miles

ROCK

Spot Rock	As Directed	20	cy. of	Crushed	@	\$33.03 per c.y.=	\$660.60
Landing Rock	4+55	60	cy. of	Crushed	@	\$33.13 per c.y.=	\$1,987.80
Landing Rock	5+85	30	cy. of	Crushed	@	\$33.16 per c.y.=	\$994.80
TOTAL ROCK							\$3,643.20

SPECIAL PROJECTS

Construct Landings	1.00	hours @	\$220.00	per hour	\$220.00
Pluck trees within 5ft of road edge	0.50	hours @	\$220.00	per hour	\$110.00
Remove woody debris(5+80 to 11+60)	1.50	hours @	\$385.00	per hour	\$577.50
Grade and shape road -	11.60	stations @	\$24.40	per station	\$283.04
Roll subgrade w/ vibratory roller prior to rocking -	11.60	stations @	\$19.40	per station	\$225.04
Grass seed and fertilize -	0.27	acres @	\$310.00	per acre	\$83.70
TOTAL SPECIAL PROJECTS					\$1,499.28

GRAND TOTAL **\$5,142.48**

SUMMARY OF CONSTRUCTION COST

Sale: **South Fork Trask**

Road: **Y to Z**

Construction -	15+80	stations	Improvement -	0+00	stations	Reconstruction -	0+00	stations
	0.30	miles		0.00	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station	=	Drill & Shoot	Endhaul	
0+00		3+45	10%			\$125	=			\$431.25
3+45		5+05	22%			\$193	=			\$308.80
5+05		8+15	38%			\$265	=		200.00	\$1,021.50
8+15		15+80	10%			\$125	=			\$956.25
									TOTAL	\$2,717.80

ROCK

0+00	to	15+80	880	cy. of	Crushed	@	\$33.32	per c.y.=	\$29,321.60	
3+40	to	7+80	40	cy. of	Crushed	@	\$33.15	per c.y.=	\$1,326.00	
Intersection Widening		0+00	30	cy. of	Crushed	@	\$33.15	per c.y.=	\$994.50	
Landing Rock		9+15	80	cy. of	Crushed	@	\$33.34	per c.y.=	\$2,667.20	
Landing Rock		14+60	80	cy. of	Crushed	@	\$33.46	per c.y.=	\$2,676.80	
Landing Rock		15+80	50	cy. of	Crushed	@	\$33.48	per c.y.=	\$1,674.00	
									TOTAL ROCK	\$38,660.10

SPECIAL PROJECTS

Construct Landings	5.00	hours @	\$220.00	per hour	\$1,100.00	
Construct waste areas -	0.50	hours @	\$220.00	per hour	\$110.00	
Construct ditchouts -	1.00	@	\$60.00	each	\$60.00	
Endhaul stumps from landing -	2.00	hours @	\$385.00	per hour	\$770.00	
Grade and shape road -	15.80	stations @	\$24.40	per station	\$385.52	
Roll subgrade w/ vibratory roller prior to rocking -	15.80	stations @	\$19.40	per station	\$306.52	
Remove large stumps -	28.00	lump sum @	\$110.00	each	\$3,080.00	
Grass seed and fertilize -	0.73	acres @	\$310.00	per acre	\$226.30	
Mulching -	0.10	acres @	\$865.00	per acre	\$86.50	
					TOTAL SPECIAL PROJECTS	\$6,124.84

GRAND TOTAL **\$47,502.74**

SUMMARY OF CONSTRUCTION COST

Sale: **South Fork Trask**

Road: **AA to BB**

<u>Construction -</u>	<u>0+00</u>	stations	<u>Improvement -</u>	<u>27+30</u>	stations	<u>Reconstruction -</u>	<u>0+00</u>	stations
	0.00	miles		0.52	miles		0.00	miles

ROCK								
Spot Rock	As Needed	10	cy. of	Crushed	@	\$33.09 per c.y.=	\$330.90	
							TOTAL ROCK	\$330.90

SPECIAL PROJECTS								
Ditch - No Endhaul		8.25	stations @	\$90.00	per station	\$742.50		
Ditch - Endhaul		7.90	stations @	\$145.00	per station	\$1,145.50		
Grade and shape road -		27.30	stations @	\$24.40	per station	\$666.12		
Roll existing rock -		27.30	stations @	\$19.40	per station	\$529.62		
Grass seed and fertilize -		1.25	acres @	\$310.00	per acre	\$387.50		
							TOTAL SPECIAL PROJECTS	\$3,471.24

GRAND TOTAL	\$3,802.14
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ROCK PIT DEVELOPMENT AND PITRUN COST SUMMARY

Pit:	High Face Pit	Location:	Sec. 4, T3S, R7W, W.M.
Sale:	South Fork Trask	Road:	880 c.y.
Swell:	1.40	Stockpile:	c.y.
Shrinkage	1.16	Total Truck Loads:	880 c.y.
Drill Pct.:	0%	In Place Total:	629 c.y.

Rip Rock:	\$3.35	/cu.yd.	x	629	cu.yds.	=	\$2,107.15
Load Dump Truck:	\$1.20	/cu.yd.	x	880	cu.yds.	=	\$1,056.00
Sort Rock"	\$1.20	/cu.yd.	x	880	cu.yds.	=	\$1,056.00

Subtotal \$4,219.15

Move in Excavator 1 @ \$467.86 = \$467.86

Subtotal \$467.86

Base Cost= \$5.33 Per Cu.Yd. TOTAL PRODUCTION COSTS \$4,687.01

Road Segment	Haul Cost \$/cu.yd.	Proc Cost \$/cu.yd.	Base Cost. \$/cu.yd.	Cost \$/cu.yd.	Number Cu. Yds	ROCK COST
M to N 0 570 (Pitrun)	3.28	1.65	5.33	10.26	460	\$4,719.60
M to N Intersection Widening (Pitrun)	3.22	1.65	5.33	10.20	50	\$510.00
M to N Landing Rock (Pitrun)	3.34	1.65	5.33	10.32	80	\$825.60
O to P 0 170 (Pitrun)	3.36	1.65	5.33	10.34	120	\$1,240.80
O to P Intersection Widening (Pitrun)	3.34	1.65	5.33	10.32	30	\$309.60
O to P Landing Rock (Pitrun)	3.38	1.65	5.33	10.36	70	\$725.20
Q to R Landing Rock (Pitrun)	3.27	1.65	5.33	10.25	70	\$717.50
				Total C.Y.	880	Sub Total \$9,048.30

TOTAL ROCKING COSTS \$9,048.30

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	North Fork Pit	Location:	Sec. 25 , T1S, R8W, W.M.
Sale:	South Fork Trask	Road:	11680 c.y.
Swell:	1.40	Stockpile:	c.y.
Shrinkage	1.16	Total Truck Loads:	11680 c.y.
Drill Pct.:	100%	In Place Total:	8343 c.y.

Pit Development & Cleanup including Clearing and grubbing of Waste Area @ adjacent to pit, place overburden in Waste Area, spread and compact. \$4,500.00

Drill & Shoot:	\$3.60 /cu.yd.	x	8343 cu.yds.	=	\$30,034.80
Push Rock:	\$1.20 /cu.yd.	x	11680 cu.yds.	=	\$14,016.00
Load Crusher:	\$1.20 /cu.yd.	x	11680 cu.yds.	=	\$14,016.00
Crush Rock(2"-0"):	\$4.90 /cu.yd.	x	3810 cu.yds.	=	\$18,669.00
Crush Rock(4"-0"):	\$4.30 /cu.yd.	x	7590 cu.yds.	=	\$32,637.00
Load Dump Truck:	\$1.20 /cu.yd.	x	11680 cu.yds.	=	\$14,016.00
Oversize Reduction:	\$6.70 /cu.yd.	x	4088 cu.yds.	=	\$27,389.60

Subtotal \$155,278.40

Move In/Set-up Crusher	1	@	\$9,090.00	=	\$9,090.00
Move In and set up Drill and Compressor	1	@	\$384.36	=	\$384.36
Move in Roller and Compactor	1	@	\$338.50	=	\$338.50
Move in Grader	1	@	\$367.71	=	\$367.71
Move in D-8	1	@	\$493.86	=	\$493.86
Move in Loader	1	@	\$352.86	=	\$352.86
Move in Excavator	1	@	\$467.86	=	\$467.86
Move in Trucks	5	@	\$129.38	=	\$646.90
Move in Water Truck	1	@	\$129.38	=	\$129.38
Subtotal					\$12,271.43

TOTAL PRODUCTION COSTS \$167,549.83

Base Cost= \$14.35 Per Cu.Yd.

Road Segment	Haul Cost \$/cu.yd.	Proc Cost \$/cu.yd.	Base Cost. \$/cu.yd.	Cost \$/cu.yd.	Number Cu. Yds	ROCK COST	
A to B Spot Rock (Crushed)	13.17	3.55	14.35	31.07	100	\$3,107.00	
A to B Erosion Control (Pitrun)	12.40	1.25	14.35	28.00	10	\$280.00	
C to D 355 3055 (Crushed)	9.17	3.20	14.35	26.72	470	\$12,558.40	
C to D 1390 3055 (Crushed)	9.28	3.55	14.35	27.18	590	\$16,036.20	
C to D 3055 6335 (Crushed)	9.80	3.55	14.35	27.70	1820	\$50,414.00	
C to D Spot Rock (Crushed)	8.85	3.55	14.35	26.75	10	\$267.50	
C to D Energy Dissipator (Rip Rap)	10.01	1.20	14.35	25.56	30	\$766.80	
C to D Intersection Widening (Crushed)	9.46	3.55	14.35	27.36	30	\$820.80	
C to D Widening (Crushed)	10.10	3.55	14.35	28.00	50	\$1,400.00	
C to D Ditch Armoring (Rip Rap)	9.87	0.75	14.35	24.97	5	\$124.85	
C to D Traction Rock (Crushed)	8.81	3.55	14.35	26.71	80	\$2,136.80	
E to F 0 100 (Crushed)	10.07	3.55	14.35	27.97	50	\$1,398.50	
E to F Intersection Widening (Crushed)	9.93	3.55	14.35	27.83	70	\$1,948.10	
G to H 0 610 (Crushed)	10.09	3.55	14.35	27.99	350	\$9,796.50	
G to H Traction Rock (Crushed)	10.03	3.55	14.35	27.93	20	\$558.60	
G to H Intersection Widening (Crushed)	10.03	3.55	14.35	27.93	30	\$837.90	
G to H Landing Rock (Crushed)	10.10	3.55	14.35	28.00	50	\$1,400.00	
G to H Landing Rock (Crushed)	10.16	3.55	14.35	28.06	70	\$1,964.20	
I to J 0 200 (Crushed)	10.12	3.55	14.35	28.02	100	\$2,802.00	
I to J Approach Widening (Crushed)	10.10	3.55	14.35	28.00	30	\$840.00	
I to J Landing Rock (Crushed)	10.14	3.55	14.35	28.04	80	\$2,243.20	
S to T 0 2460 (Crushed)	11.51	3.55	14.35	29.41	1430	\$42,056.30	
S to T Intersection Widening (Crushed)	11.25	3.55	14.35	29.15	50	\$1,457.50	
S to T Energy Dissipator (Rip Rap)	11.47	1.20	14.35	27.02	30	\$810.60	
S to T Fill Reconstruction (Pitrun)	11.69	3.55	14.35	29.59	200	\$5,918.00	
S to T Landing Rock (Crushed)	11.77	3.55	14.35	29.67	100	\$2,967.00	
U to V 0 1330 (Crushed)	11.90	3.55	14.35	29.80	780	\$23,244.00	
U to V 0 715 (Crushed)	11.76	3.55	14.35	29.66	80	\$2,372.80	
U to V Intersection Widening (Crushed)	11.76	3.55	14.35	29.66	30	\$889.80	
U to V Switchback (Crushed)	11.80	3.55	14.35	29.70	50	\$1,485.00	
U to V Landing Rock (Crushed)	12.01	3.55	14.35	29.91	100	\$2,991.00	
U to V Energy Dissipator (Rip Rap)	11.91	1.70	14.35	27.96	5	\$139.80	
W to X Spot Rock (Crushed)	15.13	3.55	14.35	33.03	20	\$660.60	
W to X Landing Rock (Crushed)	15.23	3.55	14.35	33.13	60	\$1,987.80	
W to X Landing Rock (Crushed)	15.26	3.55	14.35	33.16	30	\$994.80	
Y to Z 0 1580 (Crushed)	15.42	3.55	14.35	33.32	880	\$29,321.60	
Y to Z 340 780 (Crushed)	15.25	3.55	14.35	33.15	40	\$1,326.00	
Y to Z Intersection Widening (Crushed)	15.25	3.55	14.35	33.15	30	\$994.50	
Y to Z Landing Rock (Crushed)	15.44	3.55	14.35	33.34	80	\$2,667.20	
Y to Z Landing Rock (Crushed)	15.56	3.55	14.35	33.46	80	\$2,676.80	
Y to Z Landing Rock (Crushed)	15.58	3.55	14.35	33.48	50	\$1,674.00	
AA to BB Spot Rock (Crushed)	15.19	3.55	14.35	33.09	10	\$330.90	
North Fork Trask Stockpile 2"-0" Crushed	1.30	1.25	14.35	16.90	3000	\$50,700.00	
North Fork Trask Stockpile 4"-0" Crushed	1.30	1.70	14.35	17.35	500	\$8,675.00	
Total C.Y.					11680	Sub Total	\$298,042.35

TOTAL ROCKING COSTS \$298,042.35

Move-In Calculations for Project Work not Involving Rocking/Pit Work

Sale: **South Fork Trask**

LOWBOY HAUL (Round Trip)		
DIST. (mi)	ROADWAY	AVE SPEED (mph)
13.0	Pavement	30
6.5	Main Lines	7
0.0	Steep Grades	2

No.	EQUIPMENT DESCRIPTION	Move in Cost	Pilot Cars	Within Area Move (\$/mile)	Begin Mileage	End Mileage	Total Miles	Within Area Cost	Total Cost
1	Graders	\$367.71		\$3.65	0.00	9.00	9	\$32.85	\$400.56
1	Rollers (smooth/grid) & Compactors	\$338.50		\$5.00	0.00	9.00	9	\$45.00	\$383.50
2	Excavators (Large)	\$935.71	1	\$44.80	0.00	9.00	9	\$806.40	\$1,742.11
1	Tractor (D8)	\$493.86	2	\$15.10	0.00	4.00	4	\$60.40	\$554.26
2	Dump Truck (Off Hiway)	\$887.41	1	\$4.75	0.00	9.00	9	\$85.50	\$972.91
1	Water Truck (2500 Gal)	\$149.81		\$2.85	0.00	9.00	9	\$25.65	\$175.46
TOTAL MOVE-IN COSTS:								\$4,228.80	



OREGON DEPARTMENT OF FORESTRY CRUISE REPORT South Fork Trask

Type of Sale

Regeneration Harvest, Recovery

Legal Description:

Portions of Sections 5 & 6, T3S, R7W,

Portions of Sections 23, 24 & 25, T2S, R8W,

Portions of Sections 31 & 32, T2S, R7W, W.M.

Tillamook County, Oregon.

Sale Acreage

Sale acreage was determined by GPS and orthophotographs along with GIS.

	<u>ACRES</u>	
	<u>Gross</u>	<u>Net</u>
Unit 1 (Modified Clearcut)	146	112
Unit 2 (Modified Clearcut)	124	102
Unit 3 (Modified Clearcut)	72	48
Total	342	262

Gross Acres

Area within the Timber Sale Boundary signs

Net acres

Used for calculating the advertised volume.

Gross acres, less green tree retention, roads, Non-required thinning areas, and riparian areas classified as Special Stewardship in LMCS inside the sale boundary.

Cruising Procedures

A. Cruise Method

Timber sale units 1, 2, and 3 were cruised using variable plot sampling. All units were cruised by ODF Staff in July 2023. All conifers 8” DBH and greater containing 20 board feet and all hardwoods 10” DBH and greater containing 30 board feet were recorded on all plots. Species, DBH (to nearest inch), merchantable bole length (to nearest foot), form factor, and defect were recorded for all measure trees. Merchantable heights were recorded to 6” and 7” outside bark for conifers and hardwoods, respectively.

B. Plot size

Unit	BAF	Spacing
1	27.78	350 x 350

11-13-2023

2	40.00	300 x 300
3	40.00	300 x 300

C. Grading System

All trees were graded according to Columbia River Log Scaling and Grading Rules. Log lengths favored 40' lengths.

Computation Procedure

Plot data was entered into SuperAce for computation of basal area, advertised volume, volume summary, log stock table, and stand table for each species and type.

Net sale acreage was used for volume calculation.

	Cruise Statistics (Board Foot Volumes)			
Unit	Acres	Number of Plots	SE (%)	CV (%)
1	112	31	6.8	37.6
2	102	36	6.2	37.0
3	48	22	9.4	43.2
Project Total	262	89	4.5	42.1

Hidden Defect and Breakage

A 2% reduction for conifers and a 4% reduction for hardwood volumes were applied for hidden defect and breakage.

Timber Description

Units 1, 2, and 3 are prescribed modified clearcuts.

Unit 1 is a Douglas-fir dominated stand with a large alder component, no previous work has been done in this area. Units 2 and 3 are Douglas-fir dominant, with no harvest history in Unit 2. A small section in the western portion of Unit 3 was thinned in 2011 during the Buck n Bales timber sale.

All three stands were burned in 1933 Tillamook burn and the 1951 North Fork burn.

Sale Unit	Age	Species	DBH	Merchantable Bole Height (feet)	Merchantable top (inches inside bark)
1	56	Douglas-fir	16.3	74	5
		Red Alder	15.1	51	6

11-13-2023

2	56	Douglas-fir	16.7	77	5
		Red Alder	13.6	46	6
3	57	Douglas-fir	19.0	88	5
		Red Alder	17.9	69	6

Above data derived from Statistics (type) report using SuperAce 2008, developed by Atterbury consultants, Inc.

Cruiser /Dates

ODF Staff Cruised; Unit 1 cruised in 2021 and grown forward to 2/2024. Units 2 & 3 cruised in July 2023.

Revenue Distribution

BOF – 100%

Tax Code: 901 (30%), 801 (60%), 800 (10%)

Deed Numbers: 169, 230, 295

Attachments

Volume Summary Table

Stand Table (4)

Log Stock Tables (4)

Species, Sort, Grade Table (4)

Logging Plan (2)

Stand and Log Stock Tables Species Key

DF – Douglas-fir take

WH – western hemlock leave

RC- western red cedar

RA – red alder take

OC – Other Conifer

FI		TLOGSTVB		Log Stock Table - MBF															
Project: South Fork Trask Unit 1																			
T02S R08W S24 T0100										T02S R08W S24 T0100									
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	1										
02S	08W	24	UNIT 1	0100	112.00	31	233	Date	1/11/2024										
										Time	2:06:16PM								
Spp	T	So	Gr	Log	Gross	%	Net	%	Net Volume by Scaling Diameter in Inches										
									MBF	Def	MBF	Spc	2-3	4-5	6-7	8-9	10-11	12-13	14-15
DF	CO	2	14		4		4	.2						4					
DF	CO	2	20		16		16	.7						16					
DF	CO	2	22		39		39	1.8					18		21				
DF	CO	2	24		35		35	1.6					17		18				
DF	CO	2	32		23		23	1.1					23						
DF	CO	2	40		734		734	34.1					443		125	76	90		
DF	CO	3	16		6		6	.3					6						
DF	CO	3	20		13		13	.6					13						
DF	CO	3	28		14		14	.7			14								
DF	CO	3	38		8		8	.4			8								
DF	CO	3	40		1,041	.1	1,040	48.2			259	440	318	11	13				
DF	CO	4	12		10		10	.5		2				8					
DF	CO	4	14		2		2	.1		2									
DF	CO	4	16		13		13	.6		7	4	2							
DF	CO	4	18		2		2	.1		2									
DF	CO	4	19		5		5	.2		5									
DF	CO	4	20		24		24	1.1		10	1	13							
DF	CO	4	22		7		7	.3		4	3								
DF	CO	4	23		2		2	.1		2									
DF	CO	4	24		13		13	.6		10	3								
DF	CO	4	26		10		10	.5		9	2								
DF	CO	4	30		18		18	.8		18									
DF	CO	4	32		14		14	.7		14									
DF	CO	4	34		13		13	.6		13									
DF	CO	4	36		8		8	.4		8									
DF	CO	4	38		35		35	1.6		35									
DF	CO	4	40		47		47	2.2		47									
DF	Totals				2,156		2,155	71.7		187	294	454	346	511	176	97	90		
RA	H	1	12		11		11	1.4									11		
RA	H	1	34		18		18	2.1								18			
RA	H	2	14		9		9	1.0					9						
RA	H	2	16		11		11	1.3								11			
RA	H	2	18		35	6.5	33	3.9					8		25				
RA	H	2	20		8		8	1.0					8						
RA	H	2	24		13		13	1.6					13						
RA	H	2	40		15		15	1.8					15						
RA	H	3	12		24	2.8	24	2.9					15		9				
RA	H	3	14		8		8	.9				8							
RA	H	3	16		10	12.5	9	1.0					9						
RA	H	3	20		26	5.7	25	3.0					13		12				
RA	H	3	26		11		11	1.3				11							
RA	H	3	28		11		11	1.3				11							
RA	H	3	32		26		26	3.1				11	15						
RA	H	3	34		14		14	1.7				14							
RA	H	3	40		148		148	18.0				108	27		14				
RA	H	4	12		2		2	.2			2								
RA	H	4	14		15		15	1.8			4	6	5						
RA	H	4	16		13		13	1.5			3			10					
RA	H	4	18		10		10	1.2			5	5							
RA	H	4	20		16		16	2.0			12		4						

Log Stock Table - MBF

Project: SFT

T02S R08W S24 T0100

T02S R08W S24 T0100

Twp Rge Sec Tract Type Acres Plots Sample Trees
02S 08W 24 UNIT 1 0100 112.00 31 233

Page 2
Date 1/11/2024
Time 2:06:16PM

Spp	T	S	So	Gr	Log	Gross	% Def	Net	% Spc	Net Volume by Scaling Diameter in Inches															
										MBF	MBF	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+		
RA	H	4	22			16		16	1.9			16													
RA	H	4	23			6		6	.7			6													
RA	H	4	24			4		4	.5																
RA	H	4	26			14		14	1.7			14													
RA	H	4	28			2		2	.2			2													
RA	H	4	32			16		16	1.9			16													
RA	H	4	34			44		44	5.3			6	26		12										
RA	H	4	36			8		8	1.0			8													
RA	H	4	38			8		8	1.0			8													
RA	H	4	40			262	.2	261	31.6			153	94									14			
RA	Totals					833		827	27.5			256	135		170	142		22	91		11				
WH	CO	2	40			15		15	75.4													15			
WH	CO	3	40			5		5	24.6						5										
WH	Totals					20		20	.7						5							15			
RC	CO	3	40			6		6	100.0			6													
RC	Totals					6		6	.2			6													
Total All Species						3,015		3,008	100.0		187	556	589	521	654	198	202		101						

T02S R08W S24 T0100										T02S R08W S24 T0100				
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt					
02S	08W	24	UNIT 1	0100	112.00	31	233	S	W					

Spp	So	Gr	%	Bd. Ft. per Acre			Total	Percent Net Board Foot Volume								Average Log				Logs Per /Acre						
								Net	BdFt	Def%	Gross	Net	Net MBF	Log Scale Dia.				Log Length				Ln	Dia	Bd	CF/Lf	
														4-5	6-11	12-16	17+	12-20	21-30		31-35					36-99
DF	CO	2	39		6,836	6,836	766			78	22			2	9	3	86	36	13	247	1.64	27.6				
DF	CO	3	50	.1	8,689	8,682	972			98	2			2	1		97	39	8	98	0.67	88.4				
DF	CO	4	11		1,797	1,797	201	84	16					25	22	12	40	28	5	31	0.32	58.0				
DF	Totals		71	.0	17,322	17,316	1,939	9	51	32	9			4	6	2	87	35	8	100	0.74	174.0				
RA	H	1	3		240	240	27			61	39			39		61		24	19	314	2.36	.8				
RA	H	2	11	2.5	752	733	82			75	25			69	15		17	21	14	138	1.47	5.3				
RA	H	3	33	1.2	2,306	2,277	255			59	33	8		24	8	14	54	29	11	126	1.05	18.0				
RA	H	4	53	.1	3,613	3,610	404			92	5	3		13	9	14	64	31	7	57	0.54	63.8				
RA	Totals		28	.7	6,911	6,860	768			68	24	9		23	9	14	53	30	8	78	0.69	87.9				
RC	CO	3	100		45	45	5			100							100	40	7	70	0.92	.6				
RC	Totals		0		45	45	5			100							100	40	7	70	0.92	.6				
WH	CO	2	75		121	121	14			100							100	40	17	460	2.49	.3				
WH	CO	3	25		39	39	4			100							100	40	10	150	1.06	.3				
WH	Totals		1		160	160	18			25	75						100	40	14	305	1.78	.5				
Type Totals				.2	24,439	24,381	2,731	6	55	29	9			10	7	6	78	33	8	93	0.73	263.1				

FI		TSTNDSUM											Stand Table Summary			
Project													South Fork Trask Unit 1			
T02S R08W S24 T0100										T02S R08W S24 T0100						
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page:	1		Date:	01/11/2024				
02S	08W	24	UNIT 1	0100	112.00	31	233	Time:	2:06:17PM							
S Spc	T	Sample		Av	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals			
		DBH	Trees	FF 16'				Ht Tot	Net Cu.Ft.				Net Bd.Ft.	Tons	Cunits	MBF
DF		10		90	99	3.270	1.87	3.41	13.3	65.2	1.29	45	222	145	51	25
DF		11		83	96	8.108	5.61	8.46	15.6	57.9	3.75	132	490	420	147	55
DF		12		83	99	6.813	5.61	11.84	12.6	52.1	4.24	149	617	475	167	69
DF		13		83	107	9.675	9.35	16.14	17.3	63.8	7.96	279	1,030	892	313	115
DF		14		85	114	10.010	11.22	20.88	18.3	73.3	10.89	382	1,531	1,220	428	171
DF		15		80	113	7.267	9.35	15.16	21.2	76.0	9.17	322	1,152	1,027	360	129
DF		16		84	118	8.941	13.09	18.65	25.4	105.5	13.49	473	1,967	1,511	530	220
DF		17		83	114	6.789	11.22	14.16	28.3	110.4	11.43	401	1,563	1,280	449	175
DF		18		86	124	5.046	9.35	12.63	30.0	120.4	10.81	379	1,520	1,210	425	170
DF		19		84	129	9.058	18.71	24.56	30.7	124.9	21.46	753	3,067	2,404	843	344
DF		20		82	122	2.453	5.61	5.97	36.9	144.3	6.27	220	861	702	246	96
DF		22		85	128	3.708	9.35	9.28	40.4	155.7	10.68	375	1,444	1,196	420	162
DF		23		83	126	2.027	5.61	6.34	35.2	143.6	6.37	223	911	713	250	102
DF		24		82	108	1.236	3.74	2.58	49.6	192.8	3.65	128	497	408	143	56
DF		25		89	137	.568	1.87	1.78	39.9	191.9	2.02	71	341	226	79	38
DF		28		83	145	.449	1.87	1.40	57.1	238.9	2.28	80	335	256	90	38
DF		29		83	139	.417	1.87	1.30	62.9	275.1	2.34	82	359	262	92	40
DF		32		83	149	.340	1.87	1.06	80.2	372.9	2.43	85	397	272	96	44
DF		33		88	137	.319	1.87	1.00	85.4	423.5	2.43	85	423	272	96	47
DF		35		77	117	.283	1.87	.89	74.3	271.5	1.87	66	240	210	74	27
DF		36		81	121	.267	1.87	.56	129.5	494.1	2.05	72	275	230	81	31
DF		Totals		84	114	87.043	132.82	178.04	27.0	108.1	136.89	4,803	19,244	15,332	5,380	2,155
RA		11		78	52	4.124	2.50	2.10	10.4	34.8	.60	22	73	67	24	8
RA		12		75	90	5.112	3.75	5.22	16.3	58.0	2.33	85	303	261	95	34
RA		13		81	83	7.159	6.26	10.23	11.9	49.7	3.35	122	509	375	136	57
RA		14		84	84	8.540	8.76	9.96	19.8	78.3	5.43	197	780	608	221	87
RA		15		84	98	7.363	8.76	10.74	21.4	91.7	6.31	229	984	706	257	110
RA		16		86	96	4.582	6.26	9.35	18.8	80.1	4.84	176	749	542	197	84
RA		17		85	96	7.248	11.26	12.33	21.4	86.6	7.24	263	1,068	811	295	120
RA		18		85	98	2.140	3.75	4.37	28.8	116.0	3.46	126	507	388	141	57
RA		19		78	83	1.273	2.50	2.60	20.7	78.3	1.48	54	203	166	60	23
RA		20		85	97	3.427	7.51	5.25	32.7	123.8	4.71	171	649	528	192	73
RA		21		85	93	2.577	6.26	3.68	30.5	114.4	3.09	112	421	346	126	47
RA		22		87	109	.935	2.50	1.91	39.7	147.9	2.08	76	282	233	85	32
RA		23		88	95	.426	1.25	.87	38.2	150.8	.91	33	131	102	37	15
RA		24		89	103	.390	1.25	.80	51.4	243.6	1.12	41	194	126	46	22
RA		26		85	82	.330	1.25	.34	55.7	92.8	.52	19	31	58	21	3
RA		27		92	92	.305	1.25	.62	58.5	278.4	1.00	36	173	112	41	19
RA		31		85	84	.245	1.25	.25	83.7	208.8	.58	21	52	65	23	6
RA		32		82	112	.458	2.50	.94	70.9	290.0	1.82	66	271	204	74	30
RA		Totals		83	89	56.634	78.82	81.54	22.7	90.5	50.88	1,850	7,381	5,698	2,072	827
WH		26		85	133	.245	.92	.51	78.0	353.3	1.28	40	180	143	45	20
WH		Totals		85	133	.245	.92	.51	78.0	353.3	1.28	40	180	143	45	20
RC		17		74	74	.599	.92	.62	40.5	81.1	.59	25	51	66	28	6
RC		Totals		74	74	.599	.92	.62	40.5	81.1	0.59	25	51	66	28	6
Totals				83	104	144.520	213.48	260.72	25.8	103.0	189.64	6718	26,856	21,240	7,525	3,008

TC		TLOGSTVB		Log Stock Table - MBF															
Project:										South Fork Trask Unit 2									
T02S R07W S31 T0100										T02S R07W S31 T0100									
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	1										
02S	07W	31	UNIT 2	0100	102.00	36	118	Date	2/1/2024										
								Time	7:36:44AM										
Spp	T	So	Gr	Log	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
DF		CO	2	23	6		6	.2				6							
DF		CO	2	40	1,274	.2	1,271	43.3				582	387	183	25	93			
DF		CO	3	16	11		11	.4				11							
DF		CO	3	17	2		2	.1				2							
DF		CO	3	20	19		19	.6				19							
DF		CO	3	22	2		2	.1		2									
DF		CO	3	24	8		8	.3				8							
DF		CO	3	26	5		5	.2		3									
DF		CO	3	29	2		2	.1			2								
DF		CO	3	34	31		31	1.1				14	17						
DF		CO	3	36	6		6	.2		6									
DF		CO	3	40	1,262	.2	1,260	42.9			237	533	442	24	24				
DF		CO	4	12	4		4	.2		4									
DF		CO	4	13	3		3	.1		3									
DF		CO	4	14	2		2	.1		2									
DF		CO	4	15	8		8	.3		8									
DF		CO	4	16	2		2	.1		2									
DF		CO	4	17	12		12	.4		8		4							
DF		CO	4	18	8		8	.3		8									
DF		CO	4	19	7		7	.2		7									
DF		CO	4	20	5		5	.2		5									
DF		CO	4	21	4		4	.1		4									
DF		CO	4	22	10		10	.3		10									
DF		CO	4	23	7		7	.2		7									
DF		CO	4	26	10		10	.3		10									
DF		CO	4	27	17		17	.6		15	2								
DF		CO	4	28	19		19	.6		19									
DF		CO	4	30	18		18	.6		18									
DF		CO	4	32	8		8	.3		8									
DF		CO	4	33	24		24	.8		24									
DF		CO	4	34	31		31	1.1		31									
DF		CO	4	35	7		7	.2		7									
DF		CO	4	36	23		23	.8		23									
DF		CO	4	39	6		6	.2		6									
DF		CO	4	40	81		81	2.7		41	39								
DF		Totals			2,944		2,939	94.8		281	281	553	487	624	411	183	25	93	
RA	H	4	14		7		7	5.5			7								
RA	H	4	30		14		14	10.9			14								
RA	H	4	40		106		106	83.6			65	42							
RA	Totals				127		127	4.1			86	42							
WH	CO	3	25		8		8	24.9									8		
WH	CO	3	40		24		24	70.7				6			18				
WH	CO	4	17		1		1	2.3		1									
WH	CO	4	35		1		1	2.1		1									
WH	Totals				34		34	1.1		2		6			18		8		
Total All Species					3,105		3,100	100.0		283	366	594	493	624	411	201	34	93	

T02S R07W S31 T0100										T02S R07W S31 T0100				
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt					
02S	07W	31	UNIT 2	0100	102.00	36	118	S	W					

Spp	So	Gr	% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent 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	CO	2	43	.2	12,545	12,520	1,277			81	19			0	100	40	14	288	1.65	43.5	
DF	CO	3	46	.2	13,211	13,188	1,345	1	95	4			2	1	2	94	39	8	106	0.71	124.4
DF	CO	4	11		3,105	3,105	317	86	14				16	27	22	34	27	5	31	0.31	100.8
DF	Totals		95	.2	28,861	28,813	2,939	10	45	37	8		3	4	3	90	35	8	107	0.77	268.8
RA	H	4	100		1,246	1,246	127						5	11		84	34	7	62	0.59	20.0
RA	Totals		4		1,246	1,246	127						5	11		84	34	7	62	0.59	20.0
WH	CO	3	95		318	318	32		18	82				26	74	37	15	336	2.00	.9	
WH	CO	4	5		15	15	2	100					52	48		23	5	26	0.74	.6	
WH	Totals		1		332	332	34	4	17	78			2	25	2	71	32	11	221	1.67	1.5
Type Totals				.2	30,439	30,391	3,100	9	47	35	9		3	4	3	90	35	8	105	0.76	290.3

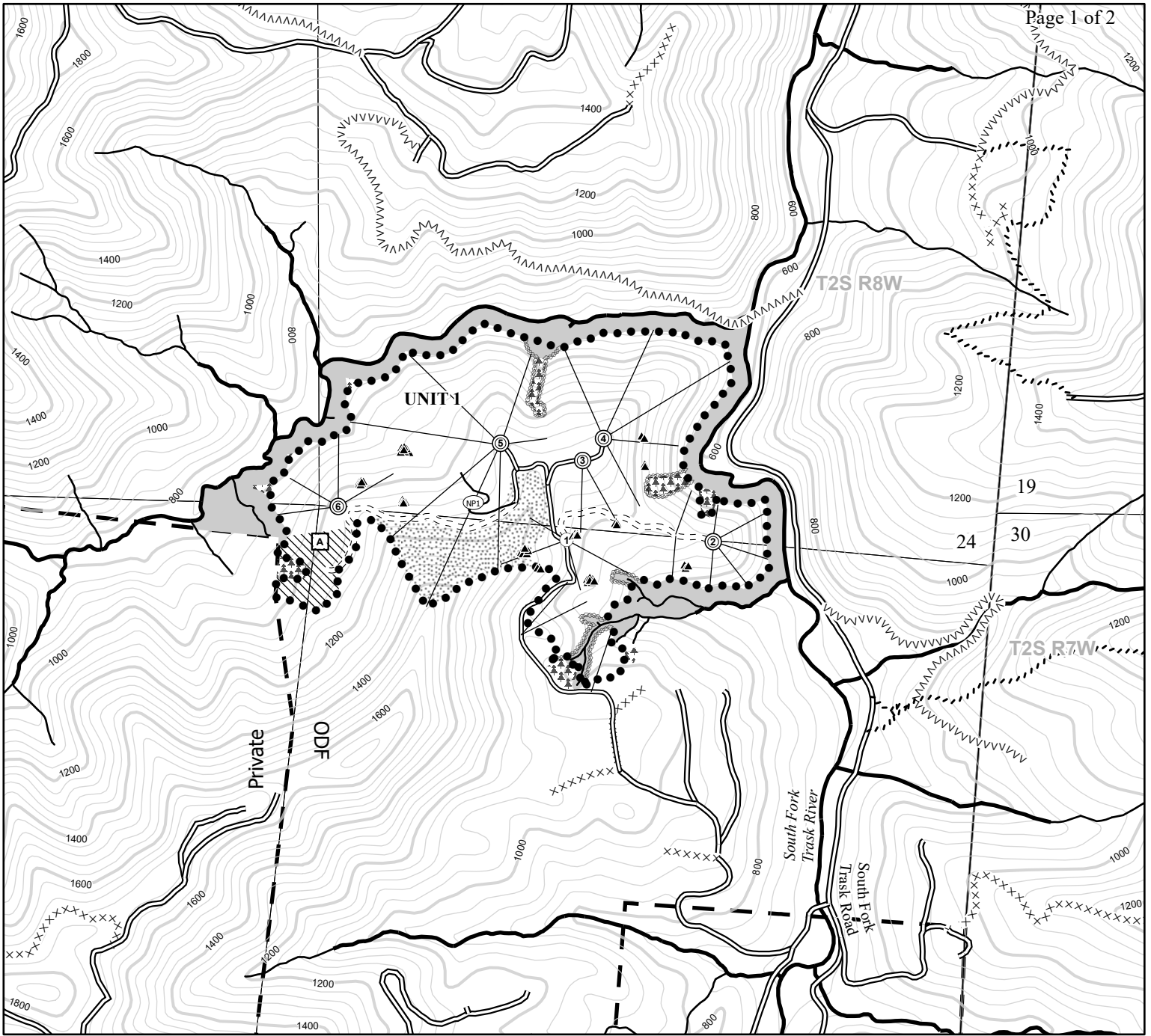
TC		TSTNDSUM											Stand Table Summary			
Project														South Fork Trask Unit 2		
T02S R07W S31 T0100											T02S R07W S31 T0100					
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page:	1							
02S	07W	31	UNIT 2	0100	102.00	36	118	Date:	02/01/2024							
								Time:	7:39:32AM							
S Spc	T	Sample		Av	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals			
		DBH	Trees	FF 16'				Ht Tot	Net Cu.Ft.				Net Bd.Ft.	Tons	Cunits	MBF
DF		8	1	80	74	5.578	1.95	5.58	8.7	40.0	1.39	49	223	142	50	23
DF		9	1	85	67	4.408	1.95	4.41	8.3	40.0	1.04	36	176	106	37	18
DF		10	1	79	80	3.570	1.95	3.57	13.6	40.0	1.39	49	143	142	50	15
DF		11	2	85	108	5.901	3.89	11.80	11.0	47.5	3.71	130	561	378	133	57
DF		12	1	88	122	2.479	1.95	4.96	14.9	65.0	2.11	74	322	215	76	33
DF		13	5	87	106	10.562	9.74	21.12	15.6	67.0	9.41	330	1,415	960	337	144
DF		14	11	85	94	20.036	21.42	36.43	17.4	64.5	18.05	633	2,350	1,841	646	240
DF		15	6	89	104	9.520	11.68	20.63	20.3	86.9	11.93	419	1,793	1,217	427	183
DF		16	10	85	98	13.946	19.47	29.29	22.1	84.3	18.42	646	2,468	1,878	659	252
DF		17	3	85	107	3.706	5.84	7.41	27.4	105.0	5.79	203	778	591	207	79
DF		18	14	86	109	15.426	27.26	35.26	28.7	112.2	28.89	1,014	3,956	2,947	1,034	403
DF		19	10	86	111	9.890	19.47	22.75	33.1	124.3	21.44	752	2,828	2,187	767	288
DF		20	10	86	118	8.925	19.47	22.31	34.7	140.8	22.05	774	3,142	2,249	789	320
DF		21	5	87	114	4.048	9.74	11.33	34.5	144.3	11.15	391	1,635	1,137	399	167
DF		22	6	86	117	4.426	11.68	11.80	40.2	167.5	13.53	475	1,977	1,380	484	202
DF		23	3	84	122	2.025	5.84	6.07	40.2	170.0	6.97	244	1,033	711	249	105
DF		24	2	84	107	1.240	3.89	3.10	47.9	180.0	4.23	148	558	431	151	57
DF		25	1	91	114	.571	1.95	1.71	48.4	233.3	2.36	83	400	241	85	41
DF		26	1	81	113	.528	1.95	1.06	63.4	255.0	1.91	67	269	195	68	27
DF		27	3	82	108	1.469	5.84	3.43	67.6	258.6	6.61	232	886	674	236	90
DF		28	1	81	120	.455	1.95	1.37	59.4	243.3	2.31	81	332	236	83	34
DF		33	1	85	105	.328	1.95	.98	76.7	306.7	2.15	75	302	219	77	31
DF		34	1	91	130	.309	1.95	.93	101.9	556.7	2.69	94	516	275	96	53
DF		38	2	84	118	.494	3.89	1.48	111.2	505.0	4.70	165	749	480	168	76
DF		Totals	101	85	103	129.841	196.67	268.78	26.7	107.2	204.23	7,166	28,813	20,831	7,309	2,939
RA		12	1	83	65	5.305	4.17	5.31	19.6	60.0	2.86	104	318	292	106	32
RA		13	1	84	76	4.520	4.17	4.52	23.8	70.0	2.96	107	316	302	110	32
RA		15	2	86	63	6.791	8.33	10.19	18.2	60.0	5.10	185	611	520	189	62
RA		Totals	4	84	67	16.616	16.67	20.01	19.8	62.3	10.92	397	1,246	1,114	405	127
WH		23	1	93	115	.385	1.11	1.16	44.2	210.0	1.63	51	243	167	52	25
WH		34	1	75	74	.176	1.11	.35	82.0	255.0	.92	29	90	94	29	9
WH		Totals	2	87	102	.561	2.22	1.51	53.0	220.5	2.56	80	332	261	82	34
OC		15	1	57	35	1.358	1.67									
OC		22	1	80	91	.631	1.67									
OC		Totals	2	64	53	1.989	3.33									
Totals		109	85	98		149.008	218.89	290.30	26.3	104.7	217.71	7643	30,391	22,206	7,796	3,100

TC		TLOGSTVB										Log Stock Table - MBF									
Project:														South Fork Trask Unit 3							
T02S R07W S32 T0100										T02S R07W S32 T0100											
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page						1							
02S	07W	32	UNIT 3	0100	48.00	22	53	Date	1/10/2024					8:59:58AM							
Spp	T	S	So	Gr	Log	Gross	%	Net	%	Net Volume by Scaling Diameter in Inches											
										MBF	Def	MBF	Spc	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19
DF		CO	2		30	16		16	1.4						16						
DF		CO	2		35	39		39	3.5						17	22					
DF		CO	2		40	551		551	49.0					286	196	39			31		
DF		CO	3		25	7		7	.6					7							
DF		CO	3		35	20		20	1.7				20								
DF		CO	3		37	6		6	.6			6									
DF		CO	3		40	418		418	37.2			96	104	217							
DF		CO	4		14	1		1	.1		1										
DF		CO	4		15	1		1	.1		1										
DF		CO	4		16	3		3	.3		3										
DF		CO	4		17	2		2	.2		2										
DF		CO	4		20	1		1	.1		1										
DF		CO	4		23	1		1	.1		1										
DF		CO	4		26	8		8	.7		8										
DF		CO	4		27	2		2	.2		2										
DF		CO	4		31	8		8	.7		8										
DF		CO	4		32	3		3	.3		3										
DF		CO	4		36	5		5	.5		5										
DF		CO	4		38	3		3	.2		3										
DF		CO	4		40	28		28	2.5		28										
DF		Totals				1,125		1,125	93.5		68	103	124	224	286	229	61		31		
RA		H	3		40	64		64	81.8				64								
RA		H	4		28	3		3	4.2		3										
RA		H	4		29	7		7	8.3		7										
RA		H	4		31	4		4	5.6		4										
RA		Totals				79		79	6.5		14		64								
Total All Species						1,203		1,203	100.0		68	117	124	289	286	229	61		31		

T02S R07W S32 T0100										T02S R07W S32 T0100				
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt					
02S	07W	32	UNIT 3	0100	48.00	22	53	S	W					

S Spp	So T	Gr rt ad	% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent 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	CO	2	53	12,626	12,626	606			93	7		3	6	91	39	13	268	1.62	47.1	
DF	CO	3	40	9,392	9,392	451		100				2	4	94	39	8	108	0.73	86.6	
DF	CO	4	7	1,415	1,415	68	100					12	17	17	53	30	5	31	0.36	45.2
DF	Totals		93	23,433	23,433	1,125		6	40	50	4	1	3	6	90	37	9	131	0.90	178.9
RA	H	3	81	1,341	1,341	64		100						100	40	11	167	0.99	8.0	
RA	H	4	19	298	298	14		100				69	31		29	6	37	0.40	8.0	
RA	Totals		7	1,638	1,638	79		100				13	6	82	35	8	102	0.74	16.0	
Type Totals				25,071	25,071	1,203		6	44	47	4	1	4	6	89	37	9	129	0.89	194.9

Stand Table Summary																	
TC		TSTNDSUM															
Project South Fork Trask Unit 3																	
T02S R07W S32 T0100										T02S R07W S32 T0100							
Twp		Rge		Sec		Tract		Type		Acres		Plots		Sample Trees		Page: 1	
02S		07W		32		UNIT 3		0100		48.00		22		53		Date: 01/10/2024	
														Time: 8:59:59AM			
Spc	S T	Sample		Av		Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals			
		DBH	Trees	FF 16'	Ht Tot				Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF	
DF		13	1	89	103	4.083	3.76	8.17	14.5	65.0	3.37	118	531	162	57	25	
DF		14	1	85	114	3.520	3.76	7.04	19.4	80.0	3.90	137	563	187	66	27	
DF		16	6	87	107	16.171	22.58	32.34	25.8	104.2	23.79	835	3,369	1,142	401	162	
DF		17	4	82	108	9.550	15.05	19.10	28.1	102.5	15.30	537	1,958	735	258	94	
DF		18	3	87	115	6.389	11.29	12.78	34.8	135.0	12.66	444	1,725	608	213	83	
DF		19	5	84	114	9.556	18.82	21.02	34.3	129.1	20.53	720	2,714	985	346	130	
DF		20	7	85	107	12.075	26.34	29.32	33.2	124.7	27.73	973	3,657	1,331	467	176	
DF		21	2	84	100	3.129	7.53	6.26	41.3	152.5	7.36	258	954	353	124	46	
DF		22	6	82	117	8.553	22.58	21.38	41.4	155.3	25.20	884	3,322	1,210	425	159	
DF		23	6	87	111	7.826	22.58	19.56	44.9	186.7	25.05	879	3,652	1,202	422	175	
DF		28	1	90	107	.880	3.76										
DF		33	1	89	146	.634	3.76	1.90	102.5	520.0	5.55	195	988	266	93	47	
DF		Totals		43	85	110	82.365	161.82	178.88	33.4	131.0	170.45	5,981	23,433	8,181	2,871	1,125
RA		14	1	88	103	3.402	3.64	6.80	21.5	95.0	4.03	146	646	193	70	31	
RA		17	2	84	95	4.614	7.27	9.23	28.7	107.5	7.28	265	992	349	127	48	
RA		18	1	93	68	2.058	3.64										
RA		20	1	93	67	1.667	3.64										
RA		22	2	93	63	2.755	7.27										
RA		Totals		7	89	84	14.495	25.45	16.03	25.6	102.2	11.30	411	1,638	543	197	79
OC		23	1	87	68	.630	1.82										
OC		30	1	73	30	.370	1.82										
OC		69	1	53	20	.070	1.82										
OC		Totals		3	80	52	1.071	5.45									
Totals				53	86	105	97.931	192.73	194.91	32.8	128.6	181.75	6392	25,071	8,724	3,068	1,203



- Legend**
- Ground
 - ⊙ Landing To Be Constructed
 - Existing Landing
 - Cable Logging
 - ⋯ Cable Haulback
 - ▨ Ground Based
 - ⋯ Recreation Trail
 - ▬ Surfaced Road
 - ×× Blocked Road
 - vvv Abandoned Road
 - ▬ Project construction, Surfaced,
 - ▬ Project construction, Unsurfaced,
 - ▬ Non-project
 - ▬ Type-F Stream
 - ▬ Type-N Stream
 - ▲ Green Tree Retention
 - Sections
 - 200' Contour
 - 40' Contour
 - ⊖ Riparian Boundary
 - Timber Sale Boundary
 - ▬ Property Line
 - ▲ Reserve Timber

LOGGING PLAN

FOR TIMBER SALE CONTRACT TL-341-2024-W01042-01
 South Fork Trask
 PORTIONS OF SECTIONS 5 & 6, T3S R7W,
 23,24 & 25, T2S R8W, 31 & 32, T2S R7W W.M.
 TILLAMOOK COUNTY, OREGON

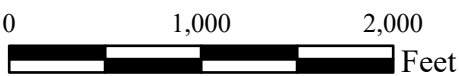
Tillamook District GIS
 FEBRUARY 2024

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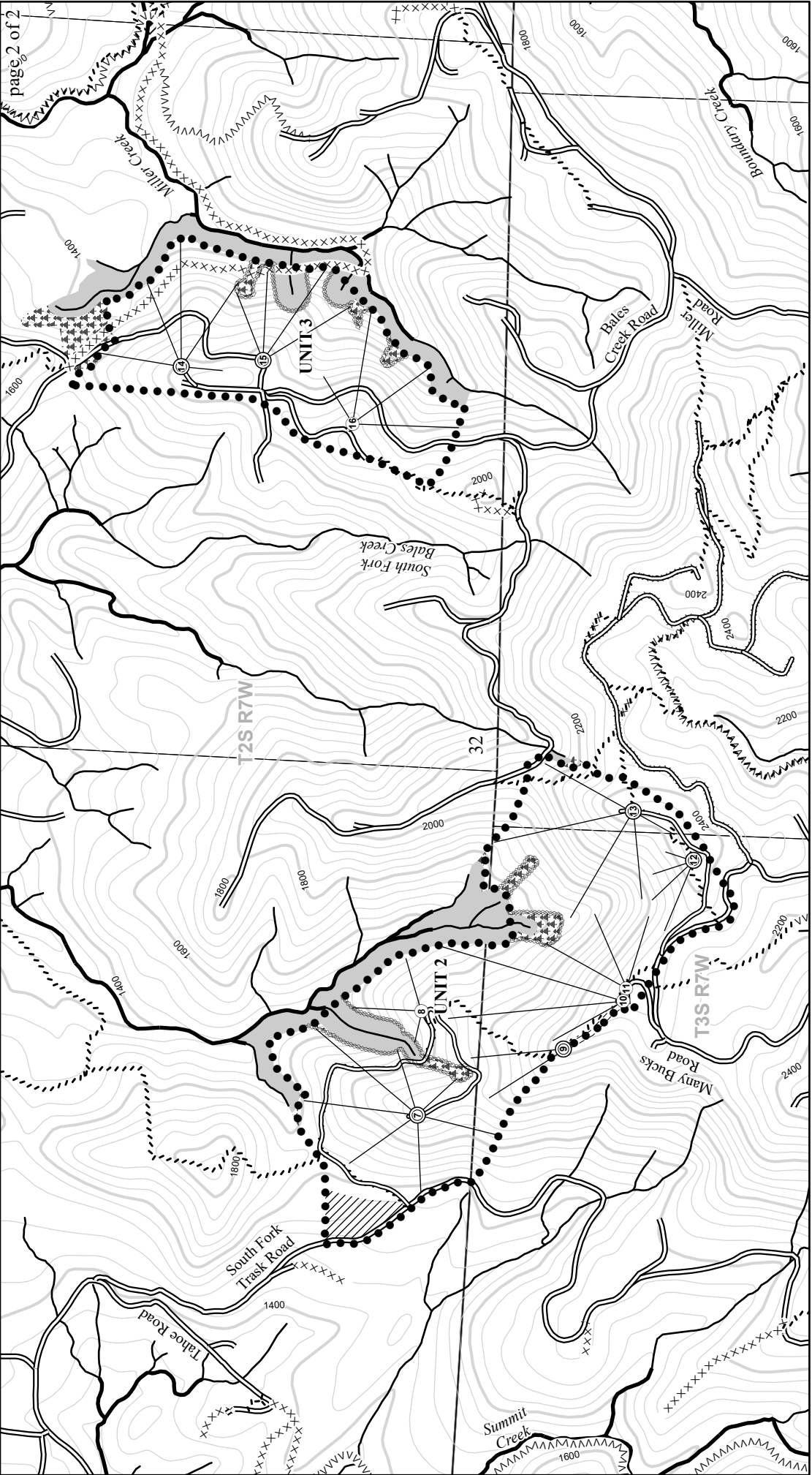


NET ACRES

1:12,000
 1 inch = 1,000 feet



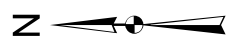
	GROUND	CABLE	TOTAL
UNIT 1	5	107	112
UNIT 2	3	99	102
UNIT 3	0	48	48
TOTAL	8	254	262



- Legend**
- ◆ Corners
 - ◉ Landing To Be Constructed
 - Existing Landing
 - Cable Logging
 - ▨ Ground Based
 - ▧ Recreation Trail
 - ▬ Surfaced Road
 - xxx Blocked Road
 - v-v-v Abandoned Road
 - ▬ Project construction, Surfaced,
 - ▬▬ Project construction, Unsurfaced,
 - Type-F Stream
 - Type-N Stream
 - ▧ Green Tree Retention
 - Sections
 - 200' Contour
 - 40' Contour
 - ◊ Riparian Boundary
 - Timber Sale Boundary
 - ▬ Property Line

LOGGING PLAN

FOR TIMBER SALE CONTRACT TL-341-2024-W01042-01
 South Fork Trask
 PORTIONS OF SECTIONS 5 & 6, T3S R7W,
 23,24 & 25, T2S R8W, 31 & 32, T2S R7W W.M.
 TILLAMOOK COUNTY, OREGON



1:12,000

1 inch = 1,000 feet

0 1,000 2,000



NET ACRES

UNIT	GROUND	CABLE	TOTAL
UNIT 1	5	107	112
UNIT 2	3	99	102
UNIT 3	0	48	48
TOTAL	8	254	262

Tillamook District GIS
 FEBRUARY 2024
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