



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Retired Dog
Sale KL-341-2025-W01033-01

District: Klamath/Lake

Date: June 18, 2024

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$163,102.26	\$0.00	\$163,102.26
		Project Work:	(\$70,434.91)
		Advertised Value:	\$92,667.35



Timber Sale Appraisal Retired Dog Sale KL-341-2025-W01033-01

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Date: June 18, 2024

Timber Description

Location:

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	14	0	98
Sugar Pine	13	0	98
Ponderosa Pine	14	0	98
Lodgepole Pine	12	0	95

Volume by Grade	3S & 4S 6" - 11"	3S 12"+	6" - 11"	12"-15"	16"+	Camprun	Total
Douglas - Fir	264	278	0	0	0	0	542
Sugar Pine	0	0	22	0	0	0	22
Ponderosa Pine	0	0	574	276	106	0	956
Lodgepole Pine	0	0	0	0	0	609	609
Total	264	278	596	276	106	609	2,129

Comments: Pond Values Used: Local Pond Values, June 2024

Pulp Price: \$0.25 per ton

Log Markets: Klamath Falls and Medford.

Other Costs (no Profit & Risk): None

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

ROAD MAINTENANCE

General Road Maintenance: \$1,977.00



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Logging Conditions

Combination#: 1	Douglas - Fir	100.00%
	Sugar Pine	100.00%
	Ponderosa Pine	100.00%
	Lodgepole Pine	100.00%
Logging System:	Wheel Skidder	Process: Feller Buncher
yarding distance:	Medium (800 ft)	downhill yarding: Yes
tree size:	Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF	
loads / day:	12.5	bd. ft / load: 4200
cost / mbf:	\$190.48	
machines:	Log Loader (B)	
	Stroke Delimber (B)	
	Feller Buncher w/ Delimber	
	Tire Skidder	



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Logging Costs

Operating Seasons: 1.00	Profit Risk: 10%
Project Costs: \$70,434.91	Other Costs (P/R): \$0.00
Slash Disposal: \$0.00	Other Costs: \$0.00

Miles of Road

Road Maintenance: \$0.93

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	4.0	4.2
Sugar Pine	\$0.00	6.0	4.2
Ponderosa Pine	\$0.00	6.0	4.2
Lodgepole Pine	\$0.00	6.0	4.0



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Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas - Fir									
\$190.48	\$0.95	\$2.06	\$75.89	\$0.00	\$26.94	\$0.00	\$2.00	\$0.00	\$298.32
Sugar Pine									
\$190.48	\$0.95	\$2.06	\$50.59	\$0.00	\$24.41	\$0.00	\$2.00	\$0.00	\$270.49
Ponderosa Pine									
\$190.48	\$0.95	\$2.06	\$50.59	\$0.00	\$24.41	\$0.00	\$2.00	\$0.00	\$270.49
Lodgepole Pine									
\$190.48	\$0.98	\$2.06	\$54.68	\$0.00	\$24.82	\$0.00	\$2.00	\$0.00	\$275.02

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$482.97	\$184.65	\$0.00
Sugar Pine	\$0.00	\$290.00	\$19.51	\$0.00
Ponderosa Pine	\$0.00	\$307.31	\$36.82	\$0.00
Lodgepole Pine	\$0.00	\$320.00	\$44.98	\$0.00



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Summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00
Sugar Pine	0	\$0.00	\$0.00
Ponderosa Pine	0	\$0.00	\$0.00
Lodgepole Pine	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	542	\$184.65	\$100,080.30
Sugar Pine	22	\$19.51	\$429.22
Ponderosa Pine	956	\$36.82	\$35,199.92
Lodgepole Pine	609	\$44.98	\$27,392.82

Gross Timber Sale Value

Recovery: \$163,102.26

Prepared By: JAMES MONTEIL

Phone: 541-883-5681

A

Contract Number:

B

Contract Name: Gilchrist State Forest AOP24 Sales

Biological Survey Tracking Form (BSTF) for Planned Sales covered under the Oregon State Forests Management Plans – Klamath Lake District

Note: See BSTF instructions document located [here](#).

C

Date

07/01/2023

D

District

Klamath-Lake

E

Area Biologist

Randy Smith

1. Habitat Suitability

1A

Is Habitat Suitable for:

Owls (list affected sale areas and attach HA map)

☐ Yes Areas

☒ No Areas

1B

☐ Survey Waiver Areas

1C

Sale Location

Location (attach map – see Instruction document for map example and description)					
Section	NA	Township	NA	Range	NA
Section		Township		Range	
Section		Township		Range	

1D

Habitat Analysis – Northern Spotted Owl

1E

Describe potential habitat: This sale is beyond the known range of the northern spotted owl. There are no known T&E or FPA locations that require restrictions.

1F

Does this sale have any project work outside of the sale area/s (e.g. new road construction, quarry development, road improvement) where habitat for NSO may be removed? ☐ Yes ☐ No

If yes, describe: NA

1G

If there is project work outside of the sale area, are surveys for NSO required? ☐ Yes ☐ No

Describe: NA

1H

Are surveys required? (Attach map with survey areas clearly shown) ☐ Yes ☐ No

☐ Waiver

Discussion: NA

Determination by:**1N**

Randy Smith, SOA Biologist	07/01/2023
Name/Title	Date
Name/Title	Date
Name/Title	Date

Habitat Suitability Additional Information:

If needed, note changes to the sale here (e.g. name changes, sale area removal or additions):

2. Survey Information – Not Applicable**Additional Survey Information:****3. Known T&E Sites**

Is sale in a MMMA (designated occupied habitat, and/or 100 meter buffer) or provincial owl circle?

3B

Provincial Owl Circle:

☒ No ☐ Yes (BA required with signatures) Activity Center Name/s:

3C

Are there any known historic or active NSO owl nest trees or identified core areas in or within ¼ mile of the sale area?

☐ No ☐ Yes Activity Center Name/s:

If yes, describe

If all above are “No”, skip to section 4 “Operations”.

3S

Has a Preliminary Biological Assessment been completed?

☐ Yes ☐ No (*If yes, attach*) If no, explain N/A

3T

Has BA been reviewed by the U. S. Fish and Wildlife Service?

☐ Yes ☐ No

Note: Some BAs may need USFWS review prior to auction. Consult with Staff Biologist to determine if USFWS review is necessary.

3U

Has a Final Biological Assessment with electronic signatures from the District Forester, Area Director, and Deputy Division Chief been completed?

☐ Yes ☐ No If no, explain

Known T&E Sites Additional Information:

4. Operations

4A Are there any special circumstances associated with survey of this sale, such as special ODF/ODFW/USFWS recommendations, or an additional season of survey prior to operations (i.e. “third-year surveys”), etc.?

☐ Yes ☒ No If yes, describe:

4B Survey expirations: Owls: _____

4C Contract expiration:

4D Begin felling Date: ☒ N/A **4E** Ending felling Date: ☒ N/A

Operations Additional Information:

Retired Dog
KL-341-2025-W01033-01

Other Costs

Road Maintenance

Move-in cost (grader):	\$500.00
Number of Miles to be Bladed:	7.0
Number of Bladings:	1
Total Miles	7.0
Miles / Hour for equipment:	0.5
Cost / Hour (grader with operator):	\$105.50
Total Grading Hours:	14
Grading Cost:	\$1,477.00
	\$1,977.00
Total Cost:	\$1,977.00
Cost / Mbf:	\$0.93

PP	956 Mbf	44.9%	Average Load	4.0 Mbf	No. of Load:	239
LP	609 Mbf	28.6%	Average Load	4.0 Mbf	No. of Load:	152
DF	542 Mbf	25.5%	Average Load	4.0 Mbf	No. of Load:	136
SP	22 Mbf	1.0%	Average Load	4.0 Mbf	No. of Load:	6
Total:	2129 Mbf				Total Loads	532

Assume: 4 Trucks/Day
3 Trips/Day
12 Loads per Day
44 Hauling Days

Retired Dog
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Other Costs

Project #1 Landing Cleanup and Slash Piling

Number of Landings: 37

Shovel Time:	1 Hour per Landing	Cost per Hour:	\$125.00	Total Cost	\$4,625.00
Cat Time:	1 Hour per Landing	Cost per Hour:	\$132.50	Total Cost	<u>\$4,902.50</u>
				Total Cost	\$9,527.50

Equipment Move In: \$500.00

Acres to be Piled	50
Hours per Acre	2
Cost per Hour	\$150.00
Cost of Piling	<u>\$15,000.00</u>
Total Cost	<u>\$24,527.50</u>
per Mbf	\$11.52

Retired Dog
KL-341-2025-W01033-01
Other Costs

Project #2 Road Improvement

Move in Cost Dozer: \$500.00

Improvement

	Points	Distance (ft)	Feet/Hour	Hours	Cost/Hour	Cost
Open/Clear/Shape	A to B	1026	1000	1.0	\$132.50	\$135.95
Open/Clear/Shape	A to C	1226	1000	1.2	\$132.50	\$162.45
Open/Clear/Shape	D to E	8728	1000	8.7	\$132.50	\$1,156.46
Open/Clear/Shape	F to G	1689	1000	1.7	\$132.50	\$223.79
Open/Clear/Shape	H to I	2176	1000	2.2	\$132.50	\$288.32
Open/Clear/Shape	D to J	8663	1000	8.7	\$132.50	\$1,147.85
Open/Clear/Shape	K to L	180	1000	0.2	\$132.50	\$23.85
Open/Clear/Shape	M to N	310	1000	0.3	\$132.50	\$41.08
Open/Clear/Shape	O to P	443	1000	0.4	\$132.50	\$58.70
Open/Clear/Shape	Q to R	1955	1000	2.0	\$132.50	\$259.04
Open/Clear/Shape	S to T	1509	1000	1.5	\$132.50	\$199.94
	Total	27905			Total	\$3,697.41

Project #2 Summary

Move in Costs	\$500.00
Improvement Costs	\$3,697.41
Project #2 Total	\$4,197.41
per MBF	\$1.97

Retired Dog
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Project Costs

Project #3 Road Closures and Waterbarring

Road Closures

8 Number of Closure Points - Point A, D, K, M, O, Q, R, and S
\$132.50 Cost per Hour (Cat)
\$1,060.00 **Total**
\$0.50 per Mbf

Skid Trail Waterbarring

20 Number of Landings
2 Hours per Landing
\$150.00 Cost per Hour (Cat)
\$6,000.00 **Total**
\$0.00 per Mbf

\$7,060.00 Project #3 Total
\$3.32 per Mbf

Project #4 Felling, Skidding, and Piling of Submerchantable Trees

Total Sub-Sawlog Volume: 385 MBF

Fell and Skid/MBF: \$65.00
Sort/MBF: \$25.00
 Total **\$34,650.00**
 per MBF \$16.28

Retired Dog
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Project Costs

Project No. 1 - Landing Cleanup and Slash Piling	\$24,527.50
Project No. 2 - Road Improvement	\$4,197.41
Project No.3- Road Closures and Waterbarring	\$7,060.00
Project No.4 - Fell, Skid, and Pile Submerch	\$34,650.00
Total Cost	\$70,434.91
per Mbf	\$33.08

Retired Dog

KL-341-2025-W01033-01

Cruise Report



SALE NAME: Retired Dog

LEGAL DESCRIPTION:

Township 25 South, Range 9 East, Portion of Section(s) 1, 12, 13, and 14. Township 25 South, Range 10 East, Portions of Section(s) 6 and 7, Willamette Meridian, Klamath County, Oregon.

ACREAGE:

The timber sale is 665 acres.

Acreage was determined using data collected using GPS and compiled using ArcMap.

TREATMENT:

The timber sale is a selection cut based on prescription by description and is a purchaser select cut with requirements listed in contract Section 2320, "Thinning Specifications".

CRUISE METHOD:

Merchantable volume on the timber sale was sampled using a variable plot cruise with a ratio of one measure plot for every count plot. Submerchantable material (5.0" to 9.0" dbh) was measured with a 1/50 acre fixed plot.

BASAL AREA FACTOR:

Stand	BAF	Type Acreage
Area	10 BAF	665 acres

FIXED PLOT:

Stand	Radius	Type Acreage
Area	16.6	665

PLOT DESIGNATION:

Plot centers were established at every plot with pin flags and candy stripe blue and white flagging attached to the nearest available tree branch listing the plot number.

SAMPLE SIZE:

61 plots

Measurements and Grading:

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

TREE HEIGHT:

All trees were measured to a fixed diameter outside bark. This height is usually taken as high up the bole as possible, where the cruiser can clearly see the bole, and the taper remains constant (usually 6 or 8 inches). The log segments are broken out and graded accordingly.

MINIMUM D.B.H:

9” dbh for sawlog volume. 5.0” dbh for submerchantable material.

DIAMETER STANDARDS:

1” diameter class

BTR:

Standard ratios were used. See attached species tables.

FORM FACTOR:

Form factor was measured or estimated at 16' for each tree. Each tree was assigned its own form factor.

FORM POINT:

All trees were sighted at D.B.H.

VOLUME COMPUTATION:

All cruise data was compiled using SuperACE.

FINAL CRUISE RESULTS:

STAND	CV%	SE%	Acres
Combined Units	78.5	10.0	665

Measurements and Grading:

- Ratio of a count plot for every measure plot.
- DBH and Height were measured on all "in" trees for measure plots.
- Pulp volume and sawlog volume cruised.
- See attached species and grade tables for minimum requirements.
- All trees were graded using the segment system.

TIMBER DESCRIPTION**SAWLOG VOLUME:**

All material graded camprun. See grade table for minimum standards.

TOTAL SAWLOG VOLUME

Species	Ave. DBH	Acres	Gross Vol/Acre (bf)	Net Vol/Acre (bf)	Net Sale Vol (Mbf)
Ponderosa Pine	14.2	665	1456	1438	956
Lodgepole Pine	12.4	665	930	915	609
Douglas-fir	13.8	665	815	815	542
Sugar Pine	13.2	665	33	33	22
Totals			3234	3201	2129

TOTAL NET SAWLOG VOLUME: 2,129 MBF

GREEN PULP VOLUME:

Submerchantable Material

This volume was obtained from the fixed plot cruise (5.0" – 9.0" DBH) combined with all material graded as green pulp during the variable plot cruise. All material was graded green pulp, see grade table for minimum standards.

VARIABLE PLOT CRUISE

Species	Acres	Vol/Acre (bf)	Sale Vol (Mbf)
Conifer	665	127	84

GREEN PULP VOLUME

This volume was obtained by combining material from the fixed plot cruise (5.0" – 9.0" DBH) with material from the variable plot cruise.

All material was graded green pulp, see grade table for minimum standards.

FIXED PLOT CRUISE

Species	Vol/Acre (bf)	Sale Vol (Mbf)
Ponderosa Pine	282	187
Douglas-fir	98	65
Lodgepole	41	27
Sugar pine	33	22
Total	454	301

TOTAL GREEN PULP VOLUME: 385 MBF

RETIRED DOG TIMBER SALE

Logging Plan

KL-341-2025-W01033-01

Portions of Sections 1, 12, 13, 14 of T25S

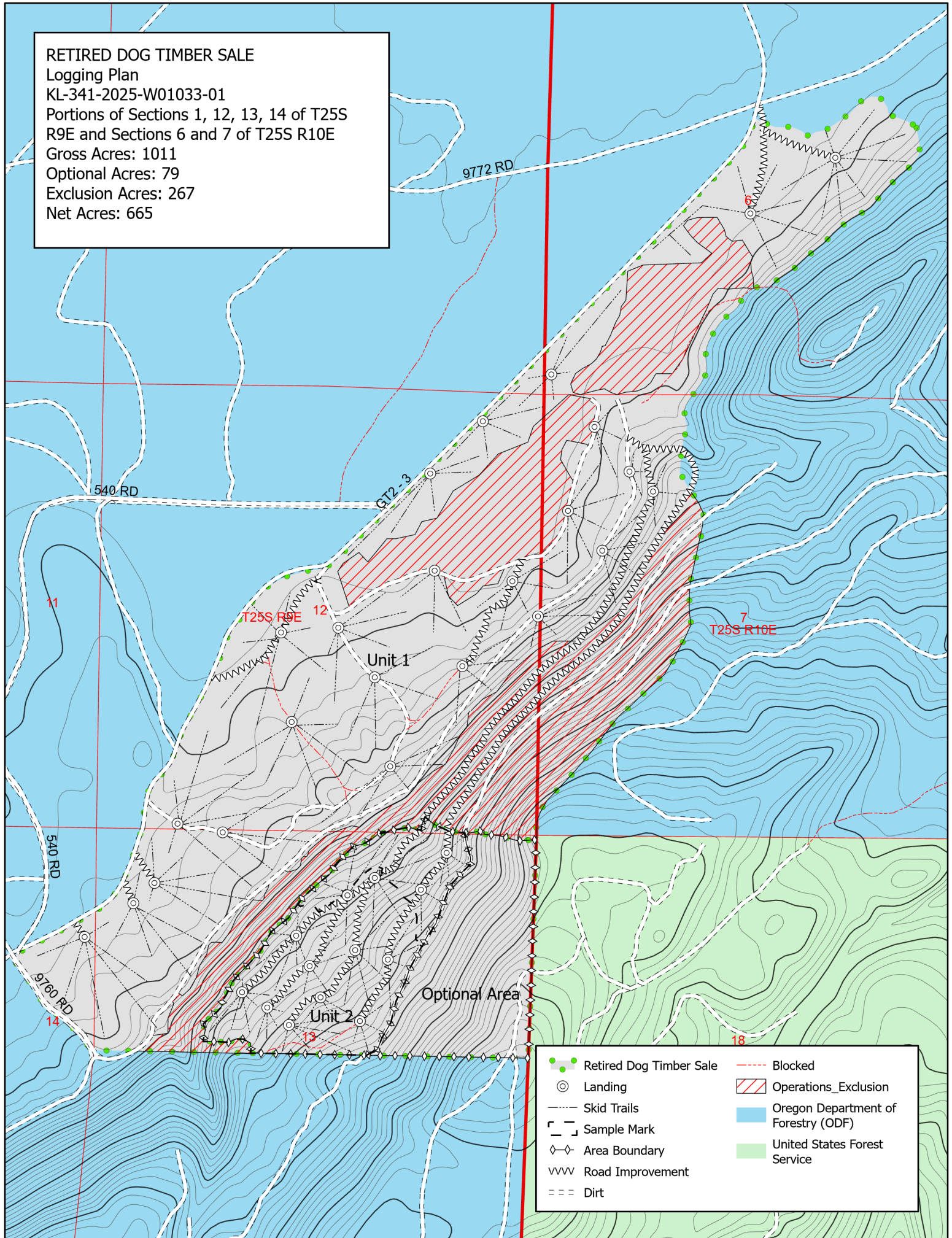
R9E and Sections 6 and 7 of T25S R10E

Gross Acres: 1011

Optional Acres: 79

Exclusion Acres: 267

Net Acres: 665



- | | |
|---------------------------|--|
| ● Retired Dog Timber Sale | --- Blocked |
| ⊙ Landing | ▨ Operations_Exclusion |
| --- Skid Trails | Blue Oregon Department of Forestry (ODF) |
| ▭ Sample Mark | Green United States Forest Service |
| ◇ Area Boundary | |
| W W Road Improvement | |
| --- Dirt | |