

Pre-Operations Report

Operation Name: Seven Cow Thin

Tax Code(s): 8-01, 30-05

County (%): Clatsop (100%)

BOF%: 100 **CSL%:** 0

Elevation: 672 - 1,443 ft

Sale Quarter: 3rd

Legal Description: T6N R6W, Section(s) 4, 5, 8; T7N R6W, Section(s) 32, 33, 34

I. VOLUME AND VALUE SUMMARY

Table 1. Types, Acres, and Value

Unit	Harvest Type	Anticipated Product ^c	Gross Acres	Net Acres	MBF/ Acre ^a	MBF/ Unit ^a	\$/MBF ^b	\$/Unit
1	PC	DF-S	52	45	8	360	\$400	\$144,000
2	PC	DF-S	42	42	7	294	\$350	\$102,900
3	PC	DF-S	182	134	7	938	\$400	\$375,200
4	PC	DF-S	103	80	7	560	\$375	\$210,000
5	PC	DF-S	75	61	7	427	\$350	\$149,450
6	PC	DF-S	35	25	7	175	\$350	\$61,250
7	PC	DF-S	67	49	7	343	\$425	\$145,775
8	R/W	DF-S, RA-S	10	10	30	300	\$400	\$120,000
Total		Right-of-way	10	10		3,397		
		Partial Cut	555	436				
						Gross Value		\$1,308,575
a. Estimated harvest volume per acre for Unit.						Project Costs		\$256,600
b. Estimated ‘price’ (excluding Project Costs)						Net Value		\$1,051,975
c. Anticipated Product (AA-B-C) – AA) SLI species code of the bid species, B) Size Class (S – small [average DBH < 15], M – medium [average DBH 15 to 23], L – large (average DBH > 23]), C) Special Product (P – Premium, H – Hardwood)								

II. CURRENT STAND CONDITION:

Table 2. Stand Inventory Information

Unit	Stand ID	Measured/Imputed ^a	Species	Age	TPA	DBH	BA	SDI	Net Acres ^b
1	23692	M	DF, RA	41	232	14	232	63%	42
1	24674	I = 99999	--	3	--	--	--	0%	3
2	23673	M	DF, RA	36	262	11	175	51%	42
3	23560	I = 23690	DF, RA	82	106	16	149	38%	1
3	23605	M	DF, RA	41	223	13	208	57%	90
3	23651	M	DF, RA	36	372	11	241	71%	39
3	24394	M	DF, RA	75	46	23	136	30%	3
4	23657	M	DF, RA	35	280	12	205	59%	79
5	23580	M	DF, RA	36	540	10	274	85%	60
6	23652	M	DF, RA	36	284	11	191	56%	24

7	23637	M	DF, RA	36	198	13	189	52%	48
8	23560	I = 23690	DF, RA	83	106	16	149	38%	1
8	23605	M	DF, RA	42	223	13	208	57%	3
8	23637	M	DF, RA	37	198	13	189	52%	1
8	23692	M	DF, RA	42	232	14	232	63%	2

- a. Identify the source of stand inventory information. Use the following codes: M = Measured SLI data, I = Imputed SLI data, P = Pre-Cruise Plots, O = other (if other, describe below).
- b. Net Acres have been rounded to the nearest whole acre in this table. Stand that comprise less than one acre of a harvest unit are not reported in this table, so the total "Net Acres" per unit in this table may not equal the total "Net Acres" per unit in table 1.

- The stand boundary for Stand #24674 is incorrect. The Seven Cow Thin Sale does not harvest any of the younger stand type. Stand #24674 should be included with Stand #23692 and is shown as such in the remainder of this document.
- The stand boundaries for Stands #23560 and #24394 are incorrect. The Seven Cow Thin Sale does not harvest any of these older stand types. Stand #23560 should be included with Stand #23651 and is shown as such in the remainder of this document. Stand #24394 should be included with Stand #23605 and is shown as such in the remainder of this document.
- These stands were planted. Unit 5 was pre-commercially thinned in 1997. No record of pre-commercial thinning on the other units.

Table 3. Additional Stand Information

Unit	Stand ID	Snags/ Acre ^a	Down Wood/ Acre ^b	Forest Health		
				SNC	Phellinus	Other ^c
1	23692	5	1020			
2	23673	1	855			
3	23605	5	638			
3	23651	1	213			
4	23657	0	653			
5	23580	1	1175			
6	23652	1	612			
7	23637	0	143			
8	23560	43	262			
8	23605	5	638			
8	23637	0	143			
8	23692	5	1020			

- a. Identify the number of hard snags per acre (decay classes 1 and 2)
- b. Identify the cubic feet per acre of hard down wood (decay classes 1 and 2)
- c. Describe "Other" forest health issue.

III. WILDLIFE AND T&E SPECIES CONSIDERATIONS:

Foresters need to request the Biological Survey Tracking Form (BSTF) from the ODF Wildlife Biologist prior to sale layout in order to ensure all T&E related information is complete and understood.

1. A portion of the operation is within (Check all that apply):

☐ TAS ☐ NSO Circle or Home Range, or Baseline or Elevated Baseline Thiessen (BA required)
☐ MMMA (BA required) ☒ None

2. Are Surveys for NSO being conducted for any portion of this operation?
☐ No ☒ Density Surveys ☐ Operational Surveys ☐ Combination (Density/Operational)

Notes:

3. Are Surveys for MM being conducted for any portion of this operation?
☐ Yes (in progress/completed) ☒ No ☐ N/A (outside of MM survey zone)

Notes: Programmatic survey waiver applies to portions of Units 1, 3 4, 6 and 7. Seasonal restrictions apply.

4. Are there any additional considerations (FPA Resource Sites, Species of Concern sites/Plant [from ORBIC¹]?
☒ No ☐ Yes, please describe:

IV. DESIRED FUTURE CONDITION AND PRESCRIPTION:

Table 4. Stand Structure Information

Unit	Stand ID	Current	Desired Future ^b	Inside of HCA	Net Acres ^a
1	23692	UDS	GEN	Yes	47
2	23673	UDS	GEN	Yes	41
3	23605	UDS	GEN	Yes	95
3	23651	UDS	GEN	Yes	39
4	23657	UDS	GEN	Yes	76
5	23580	UDS	GEN	Yes	59
6	23652	UDS	GEN	Yes	23
7	23637	UDS	GEN	Yes	48
8	23560	UDS	GEN	Yes	1
8	23605	UDS	GEN	Yes	3
8	23637	UDS	GEN	Yes	1
8	23692	UDS	GEN	Yes	2

- a. Net Acres have been rounded to the nearest whole acre in this table. Stand that comprise less than one acre of a harvest unit are not reported in this table, so the total “Net Acres” per unit in this table may not equal the total “Net Acres” per unit in table 1.
b. While desired future condition complex (Layered -LYR and Older Forest Structure – OFS) is mapped, targets for Regeneration, Closed Single Canopy and Understory stands are not. These stand types are typically referred to as General (GEN) when discussing desired future condition.

Table 5. Partial Cut & HCA Prescriptions (Complete only for Partial Cut and HCA Harvests)

Unit	Harvest Type	Harvest Species	Residual			
			Species	TPA	BA	% SDI
1	PC	DF	DF	110-150	110-160	30-40
2	PC	DF	DF	110-150	110-160	30-40
3	PC	DF	DF	120-160	110-160	30-40
4	PC	DF	DF	120-160	110-160	30-40
5	PC	DF	DF	180-260	110-160	30-40
6	PC	DF	DF	120-160	110-160	30-40

¹ Oregon Biodiversity Information Center
Astoria District
Approved - July 2025

7	PC	DF		110-150	110-160	30-40
8	R/W			110-150		

- Trees per acre calculation is highly variable and is an estimated total only. It will vary depending on diameter at the individual plot level.

This unit is a planned healthy conifer first entry thinning inside of the Habitat Conservation Areas. The intent of thinning within these areas is to promote tree growth by thinning out the dense structure allowing more light to reach the forest floor. This will help maintain growth and enhance limb and crown structure of the dominant cohort and foster natural recruitment of minor tree and understory species. It will also improve trajectories for understory development, compositional diversity, and canopy layering ultimately aiding in the development of higher quality suitable habitat and mature forest connectivity. Residual tree selection will emphasize preserving the trees of good form and vigor with the largest diameter and height. Minor species will be evaluated to reserve based on the composition of the stand and the amount of diversity present

V. HARVESTING AND ACCESS CONSIDERATIONS:

Table 6. Harvest System and Access Summary

Unit	Harvest System		Slope (%)	Unit Access	Seasonal Access
	% Cable	% Ground			
1	40	60	35-65	Simple	Dry Weather Only
2	100	0	>65	Established	All Weather
3	80	20	<35	Verified	Combo
4	80	20	35-65	Simple	All Weather
5	80	20	35-65	Simple	All Weather
6	100	0	>65	Established	All Weather
7	100	0	35-65	Simple	Combo
8	0	100	<35	Simple	Combo

1. Haul Route:

- Unit 1: Northrup Creek Road and Bovine Mainline.
- Units 2, 3, 4, 5, and 6: Bovine Mainline.
- Unit 7: Cow Ridge.

2. Haul Route Condition:

- A project is planned for replacement rock and maintenance needs. Interior working spurs will be assessed during sale layout to determine if more extensive road maintenance is needed.
- Bovine Mainline and Cow Ridge Road have been improved/maintained with previous sales. Projects on the main haul routes will be minimized.
- Northrup Creek Road goes through the Northrup Creek Horsecamp. Road use will need to be coordinated with recreation use. Road use will likely be seasonal due to wet soil conditions.

3. Are easements required for the haul route? ☒ No ☐ Yes

Table 7. Transportation Management Summary (Miles)

Activity	Mainline	Collector	Rocked Spur	Dirt Spur
Construct	0	0	1.0	1.5
Improve, Rock, and/or Maintain	5.8	3.2	4.3	0.5
Vacate	0	0	0	2.5

Activity	Mainline	Collector	Rocked Spur	Dirt Spur
Stream Crossings: install on existing road (IE)/replace on existing road (R)/install on new construction road (NC)				
Type F - SSBT ^a	0	0	0	0
Type F – Non-SSBT	0	0	0	0
Type N	0	0	1NC	0

- Salmon Steelhead and Bull Trout (SSBT)
- Type N crossing on new construction in Area 3 will be temporary and removed after completion of operation.
- Seasonal dirt spurs will be used where possible. Roads to be rocked will be identified to maximize all season use in areas that will require minimal road improvements.

4. Rock Sources for this operation:

- Northrup/Cow Creek and Cow Ridge Stockpiles. Pit-run and Jaw-run is available at Northrup Ridge Quarry.
- Crushed rock for this sale will be dependent on available stockpile inventories.

5. Are property line surveys required for this operation? ☒ No ☐ Yes

6. Is there planned new road construction planned within RCAs/HCAs? ☐ No ☒ Yes

- All units are within HCAs and planned new road construction will require a needs assessment be performed
- One Type N crossing in Unit 3 will require a needs assessment

VI. AQUATIC RESOURCES:

1. Do any streams require additional review for the following?

- Fish presence: ☒ No ☐ Yes
- Perennial/Seasonal: ☐ No ☒ Yes
- H.E.R.: ☐ No ☒ Yes
- There are streams within the sale that require additional review. Buffers shown on the map indicate where it is believed streams are located. These streams will be located, verified for permanence, and/or type of seasonal stream during sale layout and Geotech review and buffered as required.

2. Is a portion of the operation within an Aquatic Anchor? ☐ No ☒ Yes, name: Northup Creek

- Within the designated Aquatic Anchor streams will be buffered in accordance with strategies in the draft Habitat Conservation Plan that prioritize salmonid recovery as outlined in the State Forest Division Species of Concern Policy. These additional buffers are already incorporated into the sale buffers and are shown on the map. If additional information on streams is found during sale layout the buffers will be adjusted as required.

3. Are any domestic points of diversion identified in the Oregon Water Resource Department's water rights information search GIS database located downstream within 3,000 feet of the harvest operation?

☒ No ☐ Yes, describe protection measures:

4. Are there any unregistered or unknown status domestic points of diversion that have been identified within the harvest operation? ☒ No ☐ Yes, please describe:

5. Is there a Stream Enhancement Project planned? ☒ No ☐ Yes, please describe:

VII. SLOPE STABILITY ISSUES:

Table 8. Summary of Slope Stability Assessment

Unit	Harvest Review Complete	Public Safety Review Complete	Additional Comment
1	Yes	Yes	
2	Yes	Yes	
3	Yes	Yes	
4	Yes	Yes	
5	Yes	Yes	
6	Yes	Yes	
7	Yes	Yes	
8	Yes	Yes	

- **Geotech Review:** Geotechnical reviews have been completed, and it was determined that no slope protections are needed. Additional consultation with Geotechnical Specialists will be done during sale layout as needed.

VIII. RECREATION RESOURCES:

1. Recreation issues/coordination: ☐ No ☒ Yes, please describe:
 - Northrup Creek Horse Camp is adjacent to the sale area boundary and the Northrup Creek Horse Trail exists within Unit 1. The Marketing Unit and Roads Unit will work closely with the Recreation Program during sale layout, contract writing, and sale administration to minimize impact to the recreational infrastructure and mitigate public use safety concerns.
 - The recreation trail impacted will be temporarily closed when safety hazards are present during timber sale activity and re-opened once sale activity is completed or when safe to do so. The Recreation Program may perform maintenance upgrades to improve sustainability and improve hydrological disconnection during closure to minimize impact to the public.

IX. HISTORIC AND CULTURAL RESOURCES:

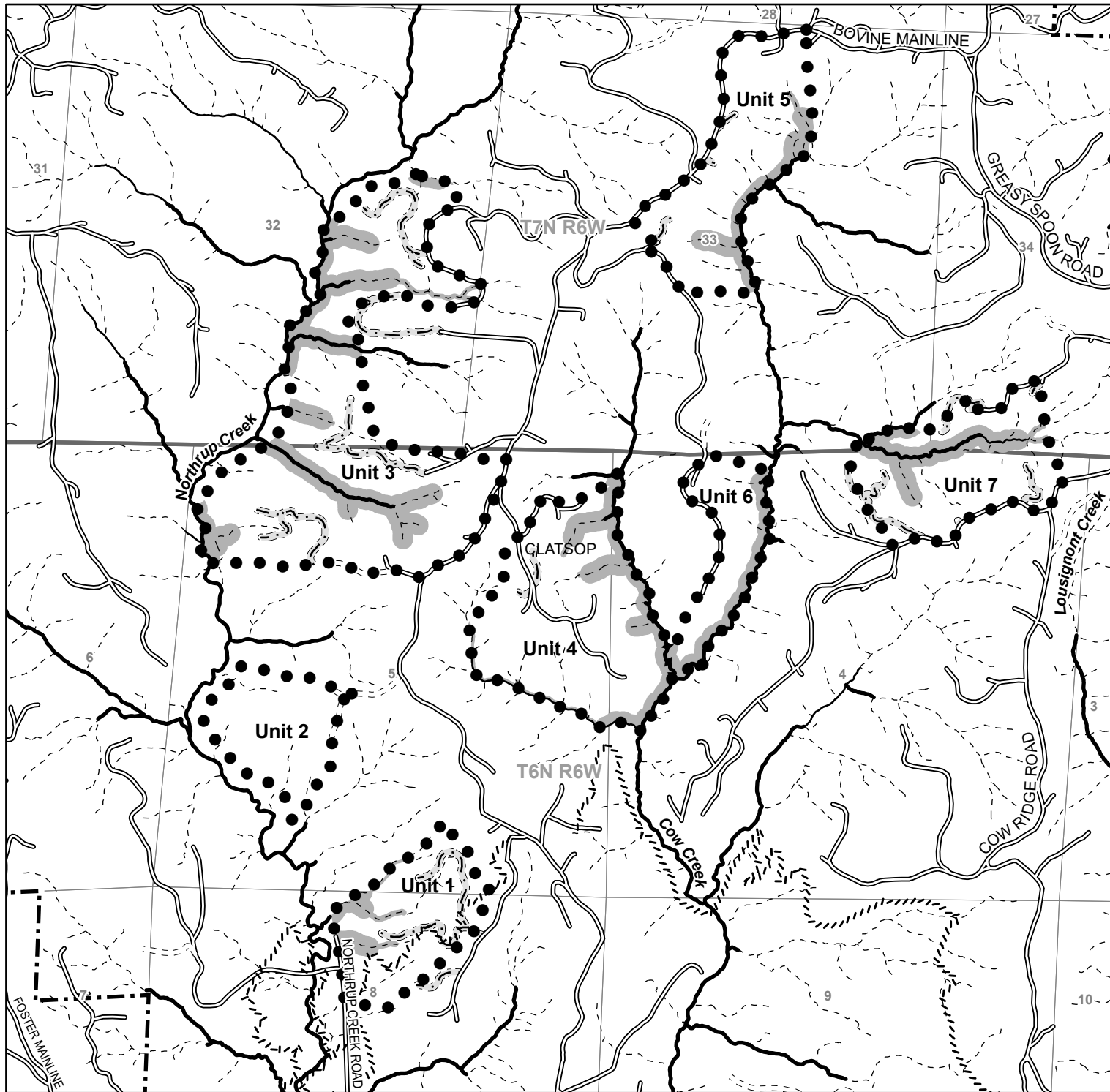
1. Has the sale been reviewed by a qualified archaeologist for potential historic or cultural resource presence? ☐ No ☒ Yes

X. SCENIC RESOURCES:

1. Are there scenic resources in the vicinity of this operation that need additional consideration? ☒ No ☐ Yes, please describe:

XI. OTHER RESOURCE CONSIDERATIONS:

1. Has a review of the FLMCS layer determined that any resources not mentioned in the report above need additional planning? ☐ No ☒ Yes, please describe:
 - The FLMCS layer shows that there are “Observational Study” plots in Unit 3. No records can be found what these observational studies apply to and they are believed to no longer be in use.
2. Are there any other resources present that need additional consideration? ☐ No ☒ Yes, please describe:
 - **Sale Boundary Edits:** The boundaries of this sale may be reduce as cost/benefit analysis of road construction is explored further.



Legend

- ◆◆ Unit Boundary
- Sale Boundary
- No Harvest Area
- Road Buffer, New Construction
- //// Recreation Trails
- New Road Construction
- Surfaced Roads
- Unsurfaced Roads
- Perennial Fish Streams
- Perennial Non-Fish Streams
- Seasonal Streams
- Ownership Boundary

FY 2026 - Astoria District Seven Cow Thin Portions of Sections 32, 33, & 34, T7N, R6W, Portions of Sections 4, 5, & 8, T6N, R6W, W.M. Clatsop County

State Forest Division
01/13/2025

This product is for informational use and may not be suitable for legal, engineering, or surveying purposes. Variations may exist between and among data sets in use by the Department of Forestry. This map was developed using the Statewide Stream Layer.

1:20,000

1,000 500 0 1,000 Feet



Unit 1	45 Acres (PC)
Unit 2	42 Acres (PC)
Unit 3	134 Acres (PC)
Unit 4	80 Acres (PC)
Unit 5	61 Acres (PC)
Unit 6	25 Acres (PC)
Unit 7	49 Acres (PC)
Unit 8	10 Acres (R/W)

Total 446 Acres

