

*STATE FOREST LAND*  
**SEPA ENVIRONMENTAL CHECKLIST**

***Purpose of checklist:***

Governmental agencies use this checklist to help determine whether the environmental impacts of your proposal are significant. This information is also helpful to determine if available avoidance, minimization or compensatory mitigation measures will address the probable significant impacts or if an environmental impact statement will be prepared to further analyze the proposal.

***Instructions for applicants:***

This environmental checklist asks you to describe some basic information about your proposal. Please answer each question accurately and carefully, to the best of your knowledge. You may need to consult with an agency specialist or private consultant for some questions. You may use "not applicable" or "does not apply" only when you can explain why it does not apply and not when the answer is unknown. You may also attach or incorporate by reference additional studies reports. Complete and accurate answers to these questions often avoid delays with the SEPA process as well as later in the decision-making process.

*Questions in italics are supplemental to Ecology's standard environmental checklist. They have been added by the DNR to assist in the review of state forest land proposals. Adjacency and landscape/watershed-administrative-unit (WAU) maps for this proposal are available on the DNR website at <http://www.dnr.wa.gov/sepa>. These maps may also be reviewed at the DNR regional office responsible for the proposal. This checklist is to be used for SEPA evaluation of state forest land activities.*

The checklist questions apply to all parts of your proposal, even if you plan to do them over a period of time or on different parcels of land. Attach any additional information that will help describe your proposal or its environmental effects. The agency to which you submit this checklist may ask you to explain your answers or provide additional information reasonably related to determining if there may be significant adverse impact.

***Instructions for Lead Agencies:***

Additional information may be necessary to evaluate the existing environment, all interrelated aspects of the proposal and an analysis of adverse impacts. This checklist is considered the first but not necessarily the only source of information needed to make an adequate threshold determination. Once a threshold determination is made, the lead agency is responsible for the completeness and accuracy of the checklist and other supporting documents.

***Use of checklist for nonproject proposals:***

For nonproject proposals (such as ordinances, regulations, plans and programs), complete the applicable parts of sections A and B plus the [SUPPLEMENTAL SHEET FOR NONPROJECT ACTIONS \(part D\)](#). Please completely answer all questions that apply and note that the words "project," "applicant," and "property or site" should be read as "proposal," "proponent," and "affected geographic area," respectively. The lead agency may exclude (for non-projects) questions in Part B - Environmental Elements –that do not contribute meaningfully to the analysis of the proposal.

**A. BACKGROUND**

1. Name of proposed project, if applicable:

*Timber Sale Name:* **Q FLY BY NIGHT**  
*Agreement #* **30-106349**

2. Name of applicant: **Washington Department of Natural Resources**

3. Address and phone number of applicant and contact person:

**Southeast Region**  
**713 Bowers Road**  
**Ellensburg, Washington 98926-9031**  
**Phone: (509) 925-8510**

**Contact Person: Kevin Alexander**

4. Date checklist prepared: **01/15/2023**

5. Agency requesting checklist: **Washington Department of Natural Resources**

6. Proposed timing or schedule (including phasing, if applicable):

*a. Auction Date:*

**06/13/2024**

*b. Planned contract end date (but may be extended):*

**Oct 31, 2026**

*c. Phasing:*

**None**

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.

*No, go to question 8.*

*Yes, identify any plans under A-7-a through A-7-d:*

*a. Site Preparation:*

**Some ground disturbance will occur with ground-based operations. Landing slash will be piled and burned.**

*b. Regeneration Method:*

**Natural regeneration is expected throughout all units. Units may be planted/interplanted or burned to support anticipated natural regeneration. The planting may be Douglas-fir. The planted units will utilize a microsite strategy to determine what species will be planted. All units will meet reforestation standards in accordance with Forest Practice Rules.**

**Prescribed fire may be utilized to achieve future silvicultural objectives, forest health, fuel**

reduction, or fire hazard abatement objectives.

*c. Vegetation Management:*

Road cut banks, fill slopes, and ditch lines, will be seeded with grass where necessary to minimize surface erosion, promote soil rehabilitation and reduce the spread of noxious weeds. The utilization of road gates and road decommissioning will limit traffic and a roadside noxious weed spraying program will further minimize noxious weed introduction and spread. This is anticipated to allow the establishment of the seedlings in conjunction with existing vegetation.

*d. Other:*

Landing slash may be piled and burned, or if economically feasible chipped for biomass. Firewood cutting may take place after harvest activities have concluded. Application of herbicides may occur to assist with site preparation and to control roadside weeds. Prescribed fire may be utilized to achieve future silvicultural objectives, forest health, fuel reduction, or fire hazard abatement objectives. Ongoing road maintenance assessments will be conducted and may include periodic road grading, ditch and culvert cleanout, as necessary. Road maintenance assessments will be conducted and may include periodic ditch and culvert cleanout and grading as necessary.

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal. *Note: All documents are available upon request at the DNR Region Office.*

303 (d) – listed water body in WAU: **Stemilt Creek WAU.**

*temp*

*sediment*

*completed TMDL (total maximum daily load)*

*Landscape plan:*

*Watershed analysis:*

*Interdisciplinary team (ID Team) report:*

*Road design plan:*

*Wildlife report: **Wolf Plan***

*Geotechnical report:*

*Other specialist report(s):*

*Memorandum of understanding (sportsmen's groups, neighborhood associations, tribes, etc.):*

*Rock pit plan:*

*Other:*

**Forest Practices Board Manual; Forest Practices Activity Maps; Road Plan dated 12-21-2023; Archaeologist Memo; Slope Stability Geologist assessment; November 21, 2023 Geologist memo: field summary, Policy for Sustainable Forests (PSF 2006); State Soil Survey; Habitat Conservation Plan (HCP 1997, and Amended 2004); HCP Checklist; Special Concerns Reports and associated maps, Road Maintenance and Abandonment Plan (RMAP): #2700086L, LiDAR DEM. Road Plan of Operations. All documents available at the SE Region Office for review, with exception of the Archaeologist memo.**

9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain.

**None known.**

10. List any government approvals or permits that will be needed for your proposal, if known.

- FPA # **2707628***       *FPHP*       *Board of Natural Resources Approval*
- Burning permit*       *Shoreline permit*       *Existing HPA*
- Other: **Incidental Take Permit PRT 812521***

11. Give brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page. (Lead agencies may modify this form to include additional specific information on project description.)

*a. Complete proposal description:*

**The Q FLY BY NIGHT proposal is 629 gross acres in Stemilt Creek WAU in parts of Kittitas and Chelan counties. The proposal includes harvesting 13 units, 3,265 mbf of timber via variable retention harvest, leaving about 6 trees per acre in each unit. All harvest areas focus on unhealthy, overstocked stands that are at risk of insect and wildfire damage. Priority will be placed on the retention of healthy quality trees, existing regeneration, snags, and down woody debris to provide ecological and biological benefits across the proposal area. The sale will utilize ground-based logging system in all units. All perennial streams identified in the vicinity have been bounded out of the sale to ensure adequate protection of the resource.**

**Natural regeneration is expected to establish in all harvest units. Units 1-11 will be planted/interplanted with Douglas-fir at densities appropriate for the site. All units will be assessed for fuel reduction. This will assist in shifting stands back to more resilient early seral species.**

**To establish a more desirable species than the current dominant species, units 1-11 will be interplanted/planted with DF. Established conifer regeneration will be assessed for potential pre-commercial thinning 10-15 years after stand establishment.**

**The road work associated with this proposal includes 56,035 feet of pre-haul maintenance, 5,255 feet of abandonment, 435 feet of construction, and 8,985 feet of reconstruction.**

Unit	Proposal Acres (gross)	RMZ/WMZ Acres	Potentially Unstable Slope Acres	Existing Road Acres (within unit)	Sale Acres (Net+Leave Clump)	Leave Tree Clump Acres	Net Harvest Acres
1	10.2	0	0.6	0.6	9	0	9
2	8.6	0.1	0	0.5	8	0	8
3	72	12	0	3	57	0	57
4	12.7	2.6	0.1	1	9	0	9
5	7.5	0	0	0.5	7	0	7
6	7.5	1.9	0	0.6	5	0	5
7	92.6	9.7	0	3.9	79	1.3	77.7
8	5.4	0.1	0	0.3	5	0	5
9	70	0	0	2	68	0	68
10	67.6	2.5	0	2.1	63	0	63
11	23	0	0	0	23	0	23
12	117.5	10.2	2.3	6	99	0	99
13	134.5	33.4	2.3	3.8	95	1.2	93.8
Totals	629.1	72.5	5.3	24.3	527	2.5	524.5

b. Describe the stand of timber pre-harvest (include major timber species and origin date), type of harvest and overall unit objectives.

***Pre-harvest Stand Description:***

**Unit 1 is an even-aged stand. Major species composition is 25% of each species; Sub-Alpine Fir (AF), Englemann Spruce (ES), Lodgepole Pine (LP), and Western Larch (WL). This stand is in the canopy exclusion phase and has no advanced regeneration in the understory. The portion of the stand with the most non-commercial trees (3 acres) was thinned in the past 5 years. The overall density of commercial timber is 81.4 trees per acre (TPA), 78 BA, and 51.8 MBF.**

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**Unit 2 is an even-aged mixed conifer stand. Major species composition is 37% LP, 30% AF, 23% WL, and 10 % ES. The present density is 291 TPA, 202 BA, and about 117.8 MBF. This unit has a significant number of non-commercial trees in patches that were harvested before 1990.**

**Unit 3 is an even-aged mixed conifer stand. Major species composition is 43% LP, 33% WL, 19% AF, and 5% ES. The present density is 185 TPA, 153 BA, and about 739 MBF. This unit has a significant number of non-commercial trees in blocks that were harvested before 1990. Commercial and non-commercial trees are a lot more mixed east of the main road.**

**Unit 4 is an even-aged mixed conifer stand. Major species composition is 39% LP, 33% WL, 21% AF, and 7% ES. The present density is 292 TPA, 188 BA, and about 132 MBF. There are some non-commercial trees scattered in this unit.**

**Unit 5 is a mixed conifer stand. The major species composition is 60% WL and 40% LP. The present density is 279 TPA, 148 BA, and about 84 MBF. This unit is extremely overstocked with very old and tall non-commercial timber. There is a maximum of two canopy layers in this unit. There is no natural regeneration in this unit. This unit was commercially harvested in 2006.**

**Unit 6 is an even-aged mixed conifer stand. The major species composition is 50% LP, 30% WL, 7% DF, 7% AF, and 6% ES. The present density is 187 TPA, 78 BA, and about 30 MBF. This unit is overstocked with non-commercial timber and was harvested in 2006.**

**Unit 7 is an even-aged mixed conifer stand. The major species composition is 40% LP, 26% WL, 21% DF, 8% AF, and 5% ES. The current density is 162 TPA, 118 BA, and about 686 MBF. This unit is overstocked with non-commercial timber in patches throughout the unit. There is a significant presence of dwarf mistletoe present. This portion of the unit was harvested in 1990. In 2006, a small seedtree intermediate harvest was conducted south of the Pole Flats Road. This resulted in 30-40 TPA retained in the overstory with an established understory. The rest of the unit was harvested in 2006. The areas close to the stream buffers are overstocked and there is no natural regeneration. There is quite a lot of dead trees and woody debris in those areas. The rest of the unit is very grassy with dense naturals present in patches. The non-tradable leave tree area (1.3 acres) below the road is very steep. The rest of the unit has a gentler slope.**

**Unit 8 is an even-aged stand. Major species composition is 35% DF, 35% Grand fir (GF), 14% WL, 8% AF, and 8% ES. The overall density of commercial timber is 147 TPA, about 94 BA, and 28 MBF. This unit was harvested in 1990.**

**Unit 9 is an uneven-aged stand. Major species composition is 33% WL, 25% DF, 21% GF, 19% LP, and 2% PP. The northern part of the unit has patches of very overstocked commercial and non-commercial trees and there are many openings in the unit. The rest of the unit is more continuous with dense commercial and non-commercial trees. The overall density of commercial timber is 209 TPA, about 128 BA, and 499 MBF. This unit was harvested in 1990.**

**Unit 10 is an uneven-aged stand. Major species composition is 31% GF, 18% AF, 15% LP, and an equal proportion of WL, DF, and ES (12% each). This unit is overstocked with a significant number of non-commercial trees in patches that were harvested in 2006. The overall density of commercial timber is 162 TPA, about 104 BA, and 408 MBF.**

**Unit 11 is an uneven-aged stand of mostly GF (50%). Other species include DF, AF (20% each), and WL (10%). The stand is heavily infected with mistletoe. There are a lot of dead trees and down woody materials in this unit, resulting in many openings. As a result, there are a lot of naturals present and the majority (80%) are GF. Most of them are infected with mistletoe. This unit was harvested in 2006. The overall density of commercial timber is 59 TPA, about 56 BA, and 69 MBF. There is a maximum of two canopy layers in this unit; dying overstory, and infected understory.**

**%**

**Unit 12 is an uneven-aged stand. Major species composition is 42% WL, 20% DF, 20% GF, 12% LP, and 6% PP. This unit has a very diverse landscape. It has thick patches of**

commercial/ non-commercial trees, and very open grassy areas with few huge trees. The overall density of commercial timber is 85 trees per acre (TPA), about 76 BA, and 499 MBF. Like other units in this area, the unit was harvested in 2006.

Unit 13 is an uneven-aged stand. Major species composition is 41% WL, 24% LP, 15% DF, 13% GF, 4% ES, and 3% AF. This unit also has a diverse landscape similar to U12. There is a high density of healthy natural regeneration in the unit. Most of this unit was harvested in 2006. The overall density of commercial timber is 82 trees per acre (TPA), about 81 BA, and 647 MBF. The majority of this unit was commercially harvested in 2006.

Overall, there is a significant component of standing dead and downed wood in all units. Past and 2023 Mountain Pine Beetle (MPB) attack is evident in the lodgepole in most of the units. Individual and patch mortality is found in all units.

Unit	Origin Date	Major Timber Species	Type of Harvest
1	1890	Sub-Alpine Fir, Englemann Spruce, Lodgepole Pine, Western Larch	Variable Retention Harvest
2	1890	Lodgepole Pine, Sub-Alpine Fir	Variable Retention Harvest
3	1890	Lodgepole Pine, Western Larch	Variable Retention Harvest
4	1920	Lodgepole Pine, Western Larch	Variable Retention Harvest
5	1930	Lodgepole Pine, Western Larch	Variable Retention Harvest
6	1950	Lodgepole Pine, Western Larch	Variable Retention Harvest
7	1940	Lodgepole Pine, Western Larch	Variable Retention Harvest
8	1970	Douglas fir, Grand fir	Variable Retention Harvest
9	1950	Western Larch, Douglas fir	Variable Retention Harvest
10	1890	Grand fir, Sub-Alpine Fir	Variable Retention Harvest
11	1890	Grand fir	Variable Retention Harvest
12	1950	Western Larch, Douglas fir, Grand fir	Variable Retention Harvest
13	1890	Western Larch, Lodgepole Pine, Douglas fir	Variable Retention Harvest

*Overall Unit Objectives:*

The objectives of this proposal are to promote forest health and stand resilience, increase tree vigor, encourage more conducive conditions for natural regeneration establishment, provide for future wildlife habitat, and produce revenue for the Common School (03), and Agriculture School Trust Beneficiary (04). These objectives will be achieved by reducing stocking levels and targeting suppressed and unhealthy species, while enhancing the stand’s structural diversity.

c. Describe planned road activity. Include information on any rock pits that will be used in this proposal. See associated forest practice application (FPA) for maps and more details.

Type of Activity	How Many	Length (feet) (Estimated)	Acres (Estimated)	Fish Barrier Removals (#)
Construction		435	0.40	0
Reconstruction		8,985		0
Maintenance		56,035		0
Abandonment		5,255	5.0	2
Bridge Install/Replace	0			0
Stream Culvert Install/Replace (fish)	0			0
Stream Culvert Install/Replace (no fish)	3			
Cross-Drain Install/Replace	0			

12. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist (See “WAU Map(s)” and “Timber Harvest Unit Adjacency Map(s)” as referenced on the DNR website: <http://www.dnr.wa.gov/sepa>. Click on the DNR region of this proposal under the Topic “Current SEPA Project Actions - Timber Sales.” Proposal documents also available for review at the DNR Region Office.)

a. Legal description: **T20-0N R20-0E S06, T20-0N R20-0E S04, T21-0N R20-0E S32**

b. Distance and direction from nearest town:

**The sale area is approximately 20 miles south of Wenatchee, WA in the Naneum Ridge State Forest. From Wenatchee drive southeast to Malaga Alcoa Hwy. Turn right at Stemilt Creek Rd. In about 6 miles turn left onto Stemilt Loop Road. Continue for about 3 miles. Turn onto Upper Basin Loop Rd (S1200). Continue for about 3 miles and turn left onto Pole Flats Rd (S1400) and continue for about 3 miles.**

**U10-13 Access:**

**Turn left onto S1440. Units 10 and 11 are in 800 feet. Units 12 and 13 are about 0.5 miles along S1444.**

**U1-9 Access:**

**Continue on Pole Flats Rd (S1400) through the gate. The rest of the units are past the gate.**

**U8 and 9: After passing the gate, in about 0.3 miles turn right on S1450. Both units are along the main road (S1400).**

**U1-7: Continue on the main road (S1400) for about 3 miles. Units are along the road until the second gate.**



### 13. Cumulative Effects

- a. *Briefly describe any known environmental concerns that exist regarding elements of the environment in the associated WAU(s). (See WAC 197-11-444 for what is considered an element of the environment).*

**This proposal is located within the Stemilt Creek Watershed Administrative Unit (WAU) which is mostly non-forested. The uplands are primarily managed for timber production and livestock grazing. DNR has partnered with Chelan County and other stakeholders to establish Stemilt-Squilchuck Watershed Plan focusing on current and desired future condition of the watershed.**

**Ownership includes the United States Forest Service, Washington Department of Fish and Wildlife, private land, Chelan County, and Washington State Department of Natural Resources (DNR). DNR has about 10% of the ownership in this WAU. DNR has not harvested any timber in this WAU in the past 15 years. DNR is not planning to harvest any more acres in the next 10 years. On non-DNR land there are approximately 1,639 acres of approved harvest management areas.**

**Portions of Columbia River are listed as 303 (d) temperature that are in this WAU. Due to their proximity to the proposal area, there should be no impact on them. Perennial streams identified in the proposal's vicinity and in the proposal area have been bounded out. The application of riparian buffers reduces the impact on stream temperatures.**

**There are two T&E species' habitats located in this WAU, Northern Spotted Owl and Gray Wolf. However, due to proximity, these habitats will not be impacted by the proposal.**

- b. *Briefly describe existing plans and programs (i.e. the HCP, DNR landscape plans, retention tree plans) and current forest practice rules that provide/require mitigation to protect against potential impacts to environmental concerns listed in question A-13-a.*

**The Department of Natural Resources has a multi-species Habitat Conservation Plan (HCP) with the U.S. Fish and Wildlife Service and the National Marine Fisheries Service concerning threatened and endangered species and their habitats, which requires the Department to manage landscapes to provide and sustain long-term habitat in exchange for an Incidental Take Permit. This agreement substantially helps the Department to mitigate for cumulative effects related to management activities.**

**This proposal is located within Stemilt Creek watershed. The 2022 forest health aerial survey indicates a medium-heavy level of mortality in the proposal area which corresponds to the field observation. In addition, in the fall of 2023 mountain pine beetle attacked the adjacent landscape that also extended into the proposal area. A high level of mortality elevates the risk for high-severity wildfire which is forecasted to occur more often with the climate change prediction. This proposal reduces the wildfire risk and improves the landscape quality which are important components of a well-managed watershed.**

**This proposal will expand the existing road network within the WAU which may cause minor soil erosion. The risk of minor soil erosion will be mitigated by installing proper**

**drainage features and grass seeding all the roads and cut banks where necessary. A wildlife review has been completed, and there are no concerns in this proposal. A State lands geologist has conducted a remote review and field survey of the proposal area and all potentially unstable landforms have been bound out of the proposal area to ensure no harvest activities will occur on or within the area of influence of these landforms.**

- c. Briefly describe any specific mitigation measures proposed, in addition to the mitigation provided by plans and programs listed under question A-13-b.*

**The proposal area was remotely and field reviewed by State Lands Geologists and any potentially unstable landforms have been excluded from the proposal area.**

**Road construction, reconstruction, and maintenance will utilize drainage features and construction techniques to allow proper road surface run-off and drainage. Haul routes have been assessed for potential environmental impacts. To minimize the potential for sediment delivery, out sloping, culverts and other drainage structures will be installed to direct run-off onto the forest floor away from live streams. Road work operations is restricted to drier months to limit wet weather impact.**

**The prescription has been designed to increase stand resiliency to disease by removing the overstocked and unhealthy trees. Where possible, established natural regeneration clumps will be retained for structural complexity. Existing snags and trees suitable for wildlife will be protected. In the long term thinning of the younger stand will include a design to introduce heterogeneity at a young age in order to reach a more resilient stand condition with diversity in species and structure.**

**This proposal will improve forest health and fire mitigation and will help limit the spread of fire into adjacent landowners. The majority of the units are expected to regenerate post harvest or will be planted/interplanted with Douglas-fir.**

- d. Based on the answers in questions A-13-a through A-13-c, is it likely potential impacts from this proposal could contribute to any environmental concerns listed in question A-13-a?*

**It is not likely potential impacts from this proposal will contribute to the environmental concerns listed in question A-13-a. DNR's HCP, the Policy for Sustainable Forests, and the forest practices rules substantially help the Department to mitigate for cumulative effects related to management activities. These strategies have been incorporated in this proposal.**

- e. Complete the table below with the reasonably foreseeable future activities within the associated WAU(s) (add more lines as needed). Future is generally defined as occurring within the next 7*

years. This data was obtained from DNR's Land Resource Manager System on the date of processing this checklist and may be subject to change.

WAU Name	Total WAU Acres	DNR-managed WAU Acres	Acres of DNR proposed even-aged harvest in the future	Acres of DNR proposed uneven-aged harvest in the future	Acres of proposed harvest on non-DNR-managed lands currently under active FP permits
STEMILT CREEK	50,983	5,329	527	0	1,639

**Other management activities, such as stand and road maintenance, will likely occur within the associated WAU(s).**

**B. ENVIRONMENTAL ELEMENTS**

**1. Earth**

a. General description of the site (check one):

Flat,  Rolling,  Hilly,  Steep Slopes,  Mountainous,  Other:

1. *General description of the associated WAU(s) or sub-basin(s) within the proposal (landforms, climate, elevations, and forest vegetation zone).*

<b>WAU:</b>	STEMILT CREEK
<b>WAU Acres:</b>	50983
<b>Elevation Range:</b>	603 - 6816 ft.
<b>Mean Elevation:</b>	3014 ft.
<b>Average Precipitation:</b>	17 in./year
<b>Primary Forest Vegetation Zone:</b>	Douglas Fir

2. *Identify any difference between the proposal location and the general description of the WAU or sub-basin(s).*

**This proposal is a representative example of the WAUs at the same elevation and aspect.**

b. What is the steepest slope on the site (approximate percent slope)?

**The steepest slopes in the proposed management units are 77%. However, the majority of harvest will occur on slopes under 55%. Harvest equipment is no expected to work on slopes over 55%.**

c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any

agricultural land of long-term commercial significance and whether the proposal results in removing any of these soils.

*Note: The following table is created from state soil survey data. It is an overview of general soils information for the soils found in the sale area. The actual soil conditions in the sale area may vary considerably based on land-form shapes, presence of erosive situations, and other factors.*

State Soil Survey #	Soil Texture
7194	COBBLY LOAM
5349	LOAMY SAND
3626	STONY LOAM
3623	STONY LOAM
5250	STONY LOAM

d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.

No, go to question B-1-e.

Yes, briefly describe potentially unstable slopes or landforms in or around the area of the proposal site. For further information, see question A-8 for related slope stability documents and question A-10 for the FPA number(s) associated with this proposal.

**The proposal excludes all forest practices potentially unstable slopes and landforms.**

**There are dormant-relict, bedrock deep-seated landslides in and around the proposal area. They are interpreted as not rule-identified landforms. Toe slopes 65 percent and steeper on these landslides are bound out of the timber sale.**

1) Does the proposal include any management activities proposed on potentially unstable slopes or landforms?

No  Yes, describe the proposed activities:

2) Describe any slope stability protection measures (including sale boundary location, road, and harvest system decisions) incorporated into this proposal.

**The proposed forest management activities exclude all Forest Practices potentially unstable slopes and landforms.**

**Road plan maintains mass balance and natural drainage patterns across these non-rule-identified, relict, bedrock deep-seated landslides. Rolling dips are constructed to maintain natural drainage pattern on the roads.**

**Skid trails will be water barred and/or have slash placed on them as required by the contract administrator.**

- e. Describe the purpose, type, total area, and approximate quantities and total affected area of any filling, excavation, and grading proposed. Indicate source of fill.

*Approx. acreage new roads:* **Approximately 0.30 Acres**

*Approx. acreage new landings:* **Approximately 6 Acres**

*Fill Source:* **DNR stockpile on S1400 located T20-R20E-Sec6**

- f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.

**Yes. There is potential for some erosion to occur as a result of new construction, reconstruction, pre-haul maintenance, and harvest activities associated with this proposal. This sale will conform to Road Maintenance Abandonment Plan and Forest Practices regulations to ensure all protection measures are employed. Installation of ditch lines, rolling dips or drivable water bars will be used to adequately drain runoff onto the forest floor.**

- g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)? *Approximate percent of proposal in permanent road running surface (includes gravel roads):*

**No impervious surfacing is proposed with this project. Approximately less than 1% of the sale area will be covered by native bed road surface for the purpose of this proposal.**

- h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:  
(*Include protection measures for minimizing compaction or rutting.*)

- **Road construction will adhere to departmental policies and procedures to minimize and control erosion.**
- **Appropriate road maintenance, harvest systems, skid patterns, and landing locations will be utilized.**
- **Active contract administration will also minimize erosion potential by ensuring that operations cease if resource damage becomes a concern.**
- **Use of water bars, rolling dips, ditching, out-sloping, monitoring, and grass seeding will be utilized as necessary.**
- **Rolling dips will be installed to direct water out onto the natural vegetated forest floor.**
- **Cut and fill slopes and ditch lines will be seeded with weed-free grass seed.**
- **Natural drainage slope will be restored.**
- **On slopes greater than 25% skid trails will be water barred and/or have slash placed on them as required by the CA.**

- **Hauling on any roads will not occur from Nov 1st to April 30th or during extreme wet weather conditions when excess rutting may occur, unless authorized by the CA.**
- **Road Plan has been designed by a forest road engineer and reviewed and approved by the region engineer.**

## 2. Air

- a. What types of emissions to the air would result from the proposal during construction, operation, and maintenance when the project is completed? If any, generally describe and give approximate quantities if known.

**Minor amounts of engine exhaust from logging and road construction equipment and dust from vehicle traffic on roads will be emitted during the proposed activities. If landing debris is burned after harvest is completed, smoke will be generated. There will be no emissions once the proposal is complete.**

- b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.

**None known.**

- c. Proposed measures to reduce or control emissions or other impacts to air, if any:

**If landing debris is burned, it will be in accordance with Washington State’s Smoke Management Plan. A burn permit will be obtained before burning occurs. Dust abatement may occur to minimize dust on selected roads between June 1<sup>st</sup> and October 30<sup>th</sup>.**

## 3. Water

- a. Surface Water:

1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into. (See “WAU Map(s)” and “Timber Harvest Unit Adjacency Map(s)” as referenced on the DNR website: <http://www.dnr.wa.gov/sepa>. Click on the DNR region of this proposal under the Topic “Current SEPA Project Actions - Timber Sales.” Proposal documents also available for review at the DNR Region Office.)

No     Yes, describe in 3-a-1-a through 3-a-1-c below

- a. *Downstream water bodies:*

**Middle Creek, Little Stemilt Creek, and Big Stemilt Creek are in the vicinity. Middle Creek potentially flows into Stemilt Reservoir. Little Stemilt Creek and Big Stemilt Creek potentially flow into Lily Lake, and Clear Lake.**

b. Complete the following riparian & wetland management zone table:

Wetland, Stream, Lake, Pond, or Saltwater Name (if any)	Water Type	Number (how many?)	Avg RMZ/WMZ Width in feet (per side for streams)	Major Stream flows into
Unnamed Stream	Np	3	50	Middle Creek
Unnamed Stream	F	1	140	Middle Creek
Wetland (W2)	B	1	75, in DNR	Middle Creek
Wetland (W3)	B	1	50, in WDFW	N/A
Wetland (W4)	B	1	50, in WDFW	N/A
Wetland (W1)	B	1	50	N/A
Unnamed Stream	F	2	110	Big Stemilt Creek
Unnamed Stream	Ns	1	none	Big Stemilt Creek
Unnamed Stream	Np	43	50	N/A
Unnamed Stream	Ns	1	none	N/A

b. List any additional RMZ/WMZ protection measures including silvicultural prescriptions, road-related RMZ/WMZ protection measures and wind buffers.

A 30-foot equipment limitation zone (ELZ) will be placed on the Ns streams within the proposal area to minimize disturbance. Harvest will be accomplished from outside the ELZ to limit disturbance. Stream type modifications were conducted in the proposal area and approved by Forest Practices. Landings will be minimized to reduce disturbance and erosion potential. Any slash or debris which enters any stream as a result of operations shall be removed and deposited in a stable position. Removal of slash debris shall be accomplished in a manner that avoids damage to the natural stream bed and bank vegetation. On slopes greater than 25%, skid trails will be water barred and/or have slash scattered on them as required per the CA.

2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans.

No

Yes (See RMZ/WMZ table above and timber sale maps which are available on the DNR website: <http://www.dnr.wa.gov/sepa>. Timber sale maps are also available at the DNR region office.)

Description (include culverts):

Np streams have 50-foot riparian management zone (RMZ) on either side of the channel. Wetlands within DNR land have 75-foot buffer on either side. Fish streams have a minimum of 100 feet buffer, variable based on the site class. All buffered zones are excluded from timber harvest. Culverts below are on typed water.

C2: culvert installation and removal on Np S1409

C5: culvert installation and removal on Np S1480

C7: culvert installation on Np on S1450R rd

- C9: culvert removal on F on S1426**
- C10: culvert removal on F on S1444**
- C11: culvert removal on Ns on S1444**
- C12: culvert installation and removal on Np on S1440 rd**
- C13: culvert removal on Ns on S1444**
- C14: culvert removal on Np on S1444**

3) Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.

**None.**

4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known. (*Include diversions for fish-passage culvert installation.*)

No       *Yes, description:* **Post-harvest 2 culverts (C9 and C10) will be removed. Stream flow will be diverted for a short period to remove culvert and slope banks. No water will be removed from the stream. Water may be withdrawn from local sources during operations to facilitate dust abatement activities. Contractor is required to obtain all necessary permits.**

5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.

No       *Yes, describe activity and location:*

6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.

**It is not likely that any waste materials will be discharged into the surface water(s). However, minor amounts of oil, fuel, and other lubricants may inadvertently be discharged to the adjacent surface water(s) as a result of heavy equipment use or mechanical failure. No lubricants will be disposed of on-site.**

7) *Is there a potential for eroded material to enter surface water as a result of the proposal considering the protection measures incorporated into the proposal's design?*

No       *Yes, describe:*

**Soils and terrain susceptible to surface erosion are generally located on slopes steeper than 70%. The potential for eroded material to enter surface water is minimized due to the erosion control measures and operational procedures outlined in **B-1-h**.**

8) *What are the approximate road miles per square mile in the associated WAU(s)?*

**STEMILT CREEK = 4.2 (mi./sq. mi.)**

9) *Are there forest roads or ditches within the associated WAU(s) that deliver surface water*



*to streams, rather than back to the forest floor?*

No       Yes, describe:

**It is likely some roads or road ditches within the WAU intercept sub-surface flow and deliver surface water to streams, however current road work standards will be applied that address this issue by installing cross-drains to deliver ditch water to stable forest floors.**

10) *Is there evidence of changes to channels associated with peak flows in the proposal area (accelerated aggradations, surface erosion, mass wasting, decrease in large organic debris (LOD), change in channel dimensions)?*

No       Yes, describe observations:

**There is evidence of changes to channels across the WAU(s). These changes are a result of natural events such as spring runoff from snowmelt and significant storm events. Channel migration, scouring, and deposition of material can be seen in channels across the WAU(s); this indicates those channels historically experience higher water levels and peak flows**

11) *Describe any anticipated contributions to peak flows resulting from this proposal's activities which could impact areas downstream or downslope of the proposal area.*

**It is not likely the proposed activity will change the timing, duration, or volume of water during a peak flow event. This proposal limits harvest unit size and proximity to other recent harvests, minimizes the extent of the road network, incorporates road drainage disconnected from stream networks, and implements wide riparian buffers which all have mitigating effects on the potential for this proposal to increase peak flows that could impact areas downstream or downslope of the proposal area.**

12) *Is there a water resource (public, domestic, agricultural, hatchery, etc.), or area of slope instability, downstream or downslope of the proposed activity?*

No       Yes, describe the water resource(s):

**Middle Creek, Little Stemilt Creek and Big Stemilt Creek are potential water resources.**

*a. Is it likely a water resource or an area of slope instability listed in B-3-12 (above) will be affected by changes in amounts, quality or movements of surface water as a result of this proposal?*

No       Yes, describe possible impacts:

**The streams within the proposal area are protected by RMZs and should not be**

**affected by this proposal. Based on protection measures outlined in B.1.d.5, and B.1.h, impacts to this area are not anticipated. However, 2 culverts located on a fish stream will be removed post-harvest. The affected stream is connected to Big Stemilt Creek. It is anticipated that the change in water quality and movement during the removal will be temporary and minimal.**

- 13) *Describe any protection measures, in addition to those required by other existing plans and programs (i.e. the HCP, DNR landscape plans) and current forest practice rules included in this proposal that mitigate potential negative effects on water quality and peak flow impacts.*

**DNR geologist and DNR forest practices geologist have been to the proposal area. The proposed forest management activities exclude all Forest Practices potentially unstable slopes and landforms. There will be no harvest in RMZ to protect banks from erosion.**

**Skid trails will be water barred when yarding is complete and will be covered with slash to cover the exposed soil and control soil erosion.**

**Operation is restricted to drier months to prevent skid trail compaction. To maintain natural drainage pattern rolling dips and cross drains will be constructed on the roads where applicable.**

**See B.1.d.2 and B.1.h for further protection measures.**

**The current proposal may slightly change the timing, duration, and/or magnitude of peak flows due to decreased evapotranspiration, but measurable impacts are not anticipated.**

c. Ground Water:

- 1) Will groundwater be withdrawn from a well for drinking water or other purposes? If so, give a general description of the well, proposed uses and approximate quantities withdrawn from the well. Will water be discharged to groundwater? Give general description, purpose, and approximate quantities if known.

**No water will be withdrawn or discharged.**

- 2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals; agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.

**Minor amounts of oil, fuel, and other lubricants may inadvertently be discharged to the ground as a result of heavy equipment use or mechanical failure. No lubricants will be disposed of on-site. All spills are required to be contained and cleaned-up. This proposal is expected to have no impact on ground water.**

3) Is there a water resource use (public, domestic, agricultural, hatchery, etc.), or area of slope instability, downstream or downslope of the proposed activity?

No       Yes, describe:

**Water bars, rolling dips, ditching, and out-sloping will be utilized on forest roads to disperse and direct water out onto natural vegetation on the forest floor rather than accumulating on road surfaces. On slopes greater than 25% skid trails will be water barred and/or have slash strategically placed on them as required by the CA to disperse water and allow it to percolate into the ground. Grass seeding of roads and landings will also slow the movement of surface water and allow it to percolate into the ground.**

a. Is it likely a water resource or an area of slope instability listed in B-3-b-3 (above) could be affected by changes in amounts, timing, or movements of groundwater as a result this proposal?

No       Yes, describe possible impacts:

*Note protection measures, if any:* **No harvest RMZs are in place to ensure resource protection. Water bars, rolling dips, ditching, and out-sloping will be utilized on forest roads to disperse and direct water out onto natural vegetation on the forest floor rather than accumulating on road surfaces. On slopes greater than 25% skid trails will be water-barred and/or have slash strategically placed on them as required by the CA to disperse water and allow it to percolate into the ground. Grass seeding of roads and landings will also slow the movement of surface water and allow it to percolate into the ground.**

d. Water runoff (including stormwater):

- 1) Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.

**Water runoff, including storm water, from road surfaces will be collected by roadside ditches and diverted onto the forest floor via ditch-outs and cross drain culverts.**

- 2) Could waste materials enter ground or surface waters? If so, generally describe.

No       Yes, describe:

**Waste materials, such as sediment or slash, may enter surface water.**

*Note protection measures, if any:*

**No additional protection measures will be necessary to protect these resources beyond those described in B-1-d-2, B-1-h, B-3-a-2, and B-3-a-13.**

- 3) Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe.

**This proposal will not significantly alter or otherwise affect drainage patterns in the vicinity of the proposal. Adequate drainage features have been incorporated into the design of all roads involved with this proposal to ensure minimal impact to natural drainage patterns. Harvest boundary locations and harvest systems have been selected to minimize impacts to natural drainage patterns.**

- e. Proposed measures to reduce or control surface, ground, and runoff water, and drainage pattern impacts, if any:

**See surface water, groundwater, and water runoff sections above, questions B-3-a-1-c, B-3-a-13, B-3-b-3, and B-3-c-2.**

#### 4. Plants

- a. Check the types of vegetation found on the site:

Deciduous tree:

Alder  Aspen  Birch  Cottonwood  Maple  Western Larch

Other:

Evergreen tree:

Douglas-Fir  Engelmann Spruce  Grand Fir  Lodgepole Pine  
 Mountain Hemlock  Noble Fir  Pacific Silver Fir  Ponderosa Pine  
 Sitka Spruce  Western Hemlock  Western Redcedar  Yellow Cedar

Other: **Sub-Alpine fir**

Shrubs:

Huckleberry  Rhododendron  Salmonberry  Salal

Other: **snowberry, ocean spray,**

Ferns

Grass

Pasture

Crop or Grain

Orchards  Vineyard  Other Permanent Crops

Wet Soil Plants:

Bullrush  Buttercup  Cattail  Devil's Club  Skunk Cabbage

Other: **horsetail**

Water plants:

Eelgrass  Milfoil  Water Lily

Other:

Other types of vegetation:

Plant communities of concern:

- b. What kind and amount of vegetation will be removed or altered? (*Also see answers to questions A-11-a, A-11-b and B-3-a-2).*)

**Overall, approximately 3.4 million board feet of DF (0.4), GF (0.4), LP (0.9), and WL (1.0), ES (0.3), AF (0.4). Tree tops and limbs will be piled and burned on the landings after the timber harvest.**

*Describe the species, age, and structural diversity of the timber types immediately adjacent to the removal area. (See “WAU Map(s)” and “Timber Harvest Unit Adjacency Map(s)” on the DNR website: <http://www.dnr.wa.gov/sepa>. Click on the DNR region of this proposal under the Topic “Current SEPA Project Actions - Timber Sales.” Proposal documents also available for review at the DNR Region Office.)*

**Units 1, 2, and 3 are partially bounded to the east by Washington State Department of Fish and Wildlife (WDFW) land which is 100+ year old timber. The rest of the units’ boundaries are Department of Natural Resources (DNR) land. DNR land is 100+ year old timber. The forested landscape is comprised of a mix of LP, DF, ES, AF, and WL.**

**Unit 4 is bounded to the north by 100+ year old United States Forest Service (USFS) timber. Timbered DNR surrounds the rest of the unit. Like the above units, the timbered landscape is a mix of LP, DF, ES, AF, and WL.**

**Unit 5, 6, and 8 are located within DNR land with 100+ year old timber. The surrounding timber is WL, LP, ES, and AF.**

**Unit 7 is bounded to the south partially by WDFW land with 100+ year old timber. The unit consists of 2 wetlands, and forest; AF, DF, and GF as the dominant species. The rest of this unit is surrounded by DNR land with 100+ year old timber. Tree species include WL, DF, AF, and ES.**

**Unit 9 is bounded to the north by Chelan County property with 80+ year old timber. It is timber with a mix of DF, GF, WL, and LP. The rest of the unit is in timbered DNR land and the tree composition is the same as Chelan County’s. WDFW surrounds Unit 10 to the west and north. It is 100+ year old timbered land with species composition of WL, DF, GF, and LP. The rest of Unit 10 is in DNR timbered land. The trees are 100+ years old and it has the same species composition as WDFW. The eastern of Unit 10 is mostly very unhealthy GF and DF with moderate to severe mistletoe.**

**Unit 11 is bounded to the north by 100+ year old WDFW timber. West of Unit 11 is Unit 10, 100+ year old forested land. Species composition is dominated by GF, AF, and LP. The rest of the unit is DNR land that follows the same age and species diversity as Unit 10. However, there are more openings and more natural regeneration patches surrounding Unit 11.**

**WDFW surrounds the northern and eastern boundary of Unit 12 and DNR land covers the rest. All nearby lands are timbered and 100+ years old. Species composition is WL, DF, GF, LP, and PP. There is a Fish stream located south of the unit that has multi-layer canopy with thick brush. There is a young stand of trees in the mid part of the southern boundary.**

**Unit 13 is surrounded to the south and west by 100+ year old WDFW timber. The north and east boundary is 100+ year old timbered DNR land. The north boundary species composition is a thick stand of multi-aged WL, GF, and DF located adjacent to Fish stream. The tree composition for the rest of nearby areas is WL, LP, DF, and GF mainly.**

- c. List threatened and endangered *plant* species known to be on or near the site.

**None found in corporate database.**

Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:

**All 13 units are comprised of diverse stand structures that are unhealthy and overstocked. To provide a better and healthier species mixture, harvest will remove the majority of the dominant trees while maintaining some of a larger cohort of trees for wildlife.**

- d. List all noxious weeds and invasive species known to be on or near the site.

**Knapweed.**

## 5. Animals

- a. List any birds and other animals *or unique habitats* which have been observed on or near the site or are known to be on or near the site. Examples include:

birds:

eagle  hawk  heron  owls  songbirds

other:

mammals:

bear  beaver  coyote  cougar  deer  elk

other:

fish:

bass  herring  salmon  shellfish  trout

other:

*amphibians/reptiles:*

frog  lizard  salamander  snake  turtle

other:

*unique habitats:*

balds  caves  cliffs  mineral springs  oak woodlands  talus slopes

other:

- b. List any threatened and endangered species known to be on or near the site (*include federal- and state-listed species*).

TSU Number	Common Name	Federal Listing Status	State Listing Status
Q FLY BY NIGHT U 3, 5, 6, 7, 8, 9, 10, 11, 12, and 13	Northern Spotted Owl (NSO)	Threatened	Endangered
All Units	Gray Wolf	Endangered	Endangered

- c. Is the site part of a migration route? If so, explain.  
 *Pacific flyway*       *Other migration route: Colockum migration corridor for elk*  
*Explain:*

**All of Washington State is considered part of the Pacific Flyway. Unit 1 is 9 acres and is part of Colockum migration corridor for elk. Due to Unit 1’s size minimal impacts are anticipated to the corridor as a result of this proposal.**

- d. Proposed measures to preserve or enhance wildlife, if any:

- 1) *Note existing or proposed protection measures, if any, for the complete proposal described in question A-11.*

Species /Habitat: **Northern Spotted Owl**      Protection Measures: **The sale is outside of any NSO status 1 circle and HCP lands managed for habitat. DNR is not incorporating NSO habitat management for this proposal.**

Species /Habitat: **Gray Wolf**      Protection Measures: **DNR will implement a Gray wolf plan. If a den site is discovered or suspected within a mile of the sale area, harvest will be suspended from March 15 to July 30.**

Species /Habitat: **American Goshawk**      Protection Measures: **American Goshawks are known to be in the area, however, there are no known nests within the sale area. If a goshawk is discovered or suspected in and around the sale area, the CA and Region Biologist must be immediately notified.**

Species /Habitat: **Riparian Habitat**      Protection Measures: **All RMZ are no-harvest areas. Well-engineered and constructed roads reduce potential water quality impacts for downstream fish populations.**

**The majority of the balds, cliffs, and talus slopes have been excluded from the sale area. These habitats will not be disturbed by machinery and tree will not be dragged through or over cliffs, talus, or balds.**

**The regeneration of grasses, forbs, low shrubs, bushes, etc. are expected to create more habitat opportunities for deer and other herbivores.**

- e. List any invasive animal species known to be on or near the site.

**None Known.**

## 6. Energy and natural resources

- a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.

**Petroleum fuel (diesel or gasoline) will be used for heavy equipment during active road building, timber harvest operations, and for transportation. No energy sources will be needed following project completion.**

- b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.

**No.**

- c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any:

**None.**

## 7. Environmental health

- a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste that could occur as a result of this proposal? If so, describe.

- 1) Describe any known or possible contamination at the site from present or past uses.

**None known.**

- 2) Describe existing hazardous chemicals/conditions that might affect project development and design. This includes underground hazardous liquid and gas transmission pipelines located within the project area and in the vicinity.

**None known.**

- 3) Describe any toxic or hazardous chemicals that might be stored, used, or produced during the project's development or construction, or at any time during the operating life of the project.

**Petroleum-based fuel and lubricants may be used and stored on site during the operating life of this project. Operators will have spill kits on hand and will report any spills to the CA immediately and the Department of Ecology (DOE) will be notified.**



- 4) Describe special emergency services that might be required.

**The Department of Natural Resources, private, and fire protection district suppression crews may be needed in case of wildfire. In the event of personal injuries, emergency medical services may be required. Hazardous material spills may require Department of Ecology and/or county assistance.**

- 5) Proposed measures to reduce or control environmental health hazards, if any:

**No petroleum-based products will be disposed of on site. If a spill occurs, containment and cleanup will be required. Spill kits are required to be onsite during all heavy equipment operations. The cessation of operations may occur during periods of increased fire risk. Fire tools and equipment, including pump trucks and/or pump trailers, will be required on site during fire season.**

*NOTE: If contamination of the environment is suspected, the proponent must contact the Department of Ecology.*

b. Noise

- 1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?

**None.**

- 2) What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site.

**There will be short-term, low level and high-level noise created by the use of harvesting equipment and hauling operations within the proposal area. This type of noise has been historically present in this geographical area.**

- 3) Proposed measures to reduce or control noise impacts, if any:

**None.**

## **8. Land and shoreline use**

- a. What is the current use of the site and adjacent properties? Will the proposal affect current land uses on nearby or adjacent properties? If so, describe. *(Site includes the complete proposal, e.g. rock pits and access roads.)*

**The DNR-managed lands surrounding the units are managed for timber production and cattle grazing. Dispersed recreational activities such as camping and hunting also take place on DNR lands. This proposal will not change the use of or affect the current/long-term land use of areas associated with this sale.**

**This proposal will not change the use of or affect the current/long term land use of areas associated with this sale.**

- b. Has the project site been used as working farmlands or working forest lands? If so, describe. How much agricultural or forest land of long-term commercial significance will be converted to other uses as a result of the proposal, if any? If resource lands have not been designated, how many acres in farmland or forest land tax status will be converted to nonfarm or non-forest use?

**This proposal site has been used as working forest lands. This proposal will retain the site in working forest lands.**

- 1) Will the proposal affect or be affected by surrounding working farm or forest land normal business operations, such as oversize equipment access, the application of pesticides, tilling, and harvesting? If so, how:

**No.**

- c. Describe any structures on the site.

**None.**

- d. Will any structures be demolished? If so, what?

**No.**

- e. What is the current zoning classification of the site?

**Forest Resources.**

- f. What is the current comprehensive plan designation of the site?

**Forest and Range.**

- g. If applicable, what is the current shoreline master program designation of the site?

**Not applicable.**

- h. Has any part of the site been classified as a critical area by the city or county? If so, specify.

**No.**

- i. Approximately how many people would reside or work in the completed project?

**None.**

- j. Approximately how many people would the completed project displace?

**None.**

- k. Proposed measures to avoid or reduce displacement impacts, if any:

**Does not apply.**

- l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:

**This project is consistent with current comprehensive plans and zoning classifications.**

- m. Proposed measures to ensure the proposal is compatible with nearby agricultural and forest lands of long-term commercial significance, if any:

**None.**

## 9. Housing

- a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.

**Does not apply.**

- b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.

**Does not apply.**

- c. Proposed measures to reduce or control housing impacts, if any:

**None.**

## 10. Aesthetics

- a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?

**Does not apply.**

- b. What views in the immediate vicinity would be altered or obstructed?

- 1) *Is this proposal visible from a residential area, town, city, recreation site, major transportation route or designated scenic corridor (e.g., county road, state or interstate highway, US route, river or Columbia Gorge SMA)?*

*No*       *Yes, name of the location, transportation route or scenic corridor:*

- 2) *How will this proposal affect any views described above?*

**Units 10-13 will be visible from Pole Flats Road (S1200) which is classified as a DNR green dot road. The effect will resemble previous timber harvests in the**

**area and views will change from a stand of overstocked mature timber to a thinned uneven-aged stand of mature timber intermixed with younger stems.**

- c. Proposed measures to reduce or control aesthetic impacts, if any:

**None.**

## **11. Light and glare**

- a. What type of light or glare will the proposal produce? What time of day would it mainly occur?

**None.**

- b. Could light or glare from the finished project be a safety hazard or interfere with views?

**No.**

- c. What existing off-site sources of light or glare may affect your proposal?

**None.**

- d. Proposed measures to reduce or control light and glare impacts, if any:

**None.**

## **12. Recreation**

- a. What designated and informal recreational opportunities are in the immediate vicinity?

**The public access from Wenatchee is via Pole Flats Road (S1200 and a portion of S1400). Pole Flats is designated as a DNR green dot road for public use which allows access to units 10, 11, 12, and 13. The rest of the units are behind a DNR gate, and not accessible to the public most of the year. During winter months, the gated road is open for snowmobile use and gets groomed.**

**From Ellensburg (Naneum Forest) public access is via Naneum Ridge Road (N3700). However, there is a DNR gate that limits public access from entering the sale area. This gate also opens up during winter months for snowmobiles.**

**Other informal dispersed recreational opportunities such as hunting, hiking, camping, ORV use, recreational shooting, and other informal outdoor recreation activities may occur within and in the immediate vicinity.**

- b. Would the proposed project displace any existing recreational uses? If so, describe.

**There may be some disruptions to recreational use during periods of harvesting and hauling.**

- c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:

**Roads in the project area will remain open to recreationists during the harvest. Signs informing of active timber sale, and logging trucks utilizing the roads will be posted on main green dot roads.**

### **13. Historic and cultural preservation**

- a. Are there any buildings, structures, or sites, located on or near the site that are over 45 years old listed in or eligible for listing in national, state, or local preservation registers? If so, specifically describe.

**There are no known cultural resources within the project areas. There are two sites recorded outside the proposal boundary; sites CH01088, CH01086, and WF00047, CH00771, CH00495, CH01089, and CH01090.**

- b. Are there any landmarks, features, or other evidence of Indian or historic use or occupation? This may include human burials or old cemeteries. Are there any material evidence, artifacts, or areas of cultural importance on or near the site? Please list any professional studies conducted at the site to identify such resources.

**The State Lands Archaeologist conducted a field review of high probability areas within the timber sale on September 1 and September 9, 2022. State capital funds were expended to maintain the Upper Stemilt Road (S1200), Pole Flats Roads (S1400), and Upper Basin Loop Road (S1440) – all haul routes planned for use during timber sale activities. These were reviewed under Executive Order 21-02 with DAHP concurrence received November 5, 2021 (DAHP Log No. 2021-06-04039-DNR). No potential cultural resources were identified in any areas reviewed. No further cultural resources work should be required.**

- c. Describe the methods used to assess the potential impacts to cultural and historic resources on or near the project site. Examples include consultation with tribes and the department of archeology and historic preservation, archaeological surveys, historic maps, GIS data, etc.

**The State Lands Archaeologist reviewed historical maps and records and conducted a field review of high probability landforms. There were no cultural resources identified on available maps. Landforms representing higher potential for archaeologist sites were identified in the vicinity which included ridgelines, viewpoints, talus slopes and rock outcrops. Some project areas are located within or nearby benches with scattered openings with higher potential for encountering pre-contact features and/or artifacts.**

- d. Proposed measures to avoid, minimize, or compensate for loss, changes to, and disturbance to resources. Please include plans for the above and any permits that may be required.

**The proposal has been designed to avoid impact to all known cultural resources. Any cultural resources identified during operations will be protected. Should archaeological materials or cultural items be discovered during the course of operations, all work in the**

vicinity will be stopped and the associated tribes and the Department of Archaeology and Historic Preservation (DAHP) will be contacted. DNR will comply with the April 2023 Cultural Resources Inadvertent Discovery Procedures outline in PR#14-004-010, available at the Southeast Region office located in Ellensburg, Washington.

#### 14. Transportation

- a. Identify public streets and highways serving the site or affected geographic area and describe proposed access to the existing street system. Show on site plans, if any.

**See timber sale map and sale driving map, and Adjacency and WAU maps on the DNR website under “SEPA Center.” (<http://www.dnr.wa.gov/sepa>. Click on the DNR region of this proposal under the Topic “Current SEPA Actions- Timber Sales.” Proposal documents also available for review at the DNR Region Office.)**

- b. Is the site or affected geographic area currently served by public transit? If so, generally describe. If not, what is the approximate distance to the nearest transit stop?

**Timber sale proposals on DNR forestlands are generally not part of heavily populated residential areas which require public transit. The nearest transit spot is approximately 22 miles away.**

- c. Will the proposal require any new or improvements to existing roads, streets, pedestrian, bicycle or state transportation facilities, not including driveways? If so, generally describe (indicate whether public or private).

**Yes, see A-11-c.**

- 1) *How does this proposal impact the overall transportation system/circulation in the surrounding area and any existing safety problem(s), if at all?*

**The impacts of this proposal are expected to improve the overall transportation system in the area for its current use and will result in a more efficient road system in the future. Access to existing roads within the proposal area may be restricted or limited during operations for safety. Public use may be restricted on existing haul roads during the sale activity.**

- d. Will the project or proposal use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.

**No.**

- e. How many vehicular trips per day would be generated by the completed project or proposal? If known, indicate when peak volumes would occur and what percentage of the volume would be trucks (such as commercial and non-passenger vehicles). What data or transportation models were used to make these estimates?

**Approximately 10 to 15 truck trips per day while the operation is active. Peak volumes would occur during the yarding and loading activities between 4:00 a.m. and 4:00 p.m. of the**

**operating period. The completed project will generate less than one vehicular trip per day. Estimates are based on the observed harvest traffic of past projects.**

- f. Will the proposal interfere with, affect or be affected by the movement of agricultural and forest products on roads or streets in the area? If so, generally describe.

**No.**

- g. Proposed measures to reduce or control transportation impacts, if any:

**None.**

## **15. Public services**

- a. Would the project result in an increased need for public services (for example: fire protection, police protection, public transit, health care, schools, other)? If so, generally describe.

**No.**

- b. Proposed measures to reduce or control direct impacts on public services, if any.

**Log hauling will not be permitted during spring break-up in all units, unless authorized by the CA. Dust abatement may occur on selected haul roads to mitigate dust created as a result of hauling activities. “Caution Log Trucks” and “Logging use only” signs along with CB radios will be used during log hauling to warn other users and residence of log truck traffic. The CA will monitor speeds of truck traffic to assure safe haul operations.**

## **16. Utilities**

- a. Check utilities currently available at the site:

electricity     natural gas     water     refuse service     telephone     sanitary sewer  
 septic system     other:

- b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.

**There are 2 electric communication sites located T20-R20E-Sec6. One belongs to Washington State University (WSU) and the other one is private. Both buildings are far away from the proposal area and should not be impacted by the operation.**

**C. SIGNATURE**

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.



Signature: \_\_\_\_\_

Name of signee \_\_\_\_\_ **Maryam Majidian** \_\_\_\_\_

Position and Agency/Organization

**Forester, SE Region / WA DNR Southeast Region**

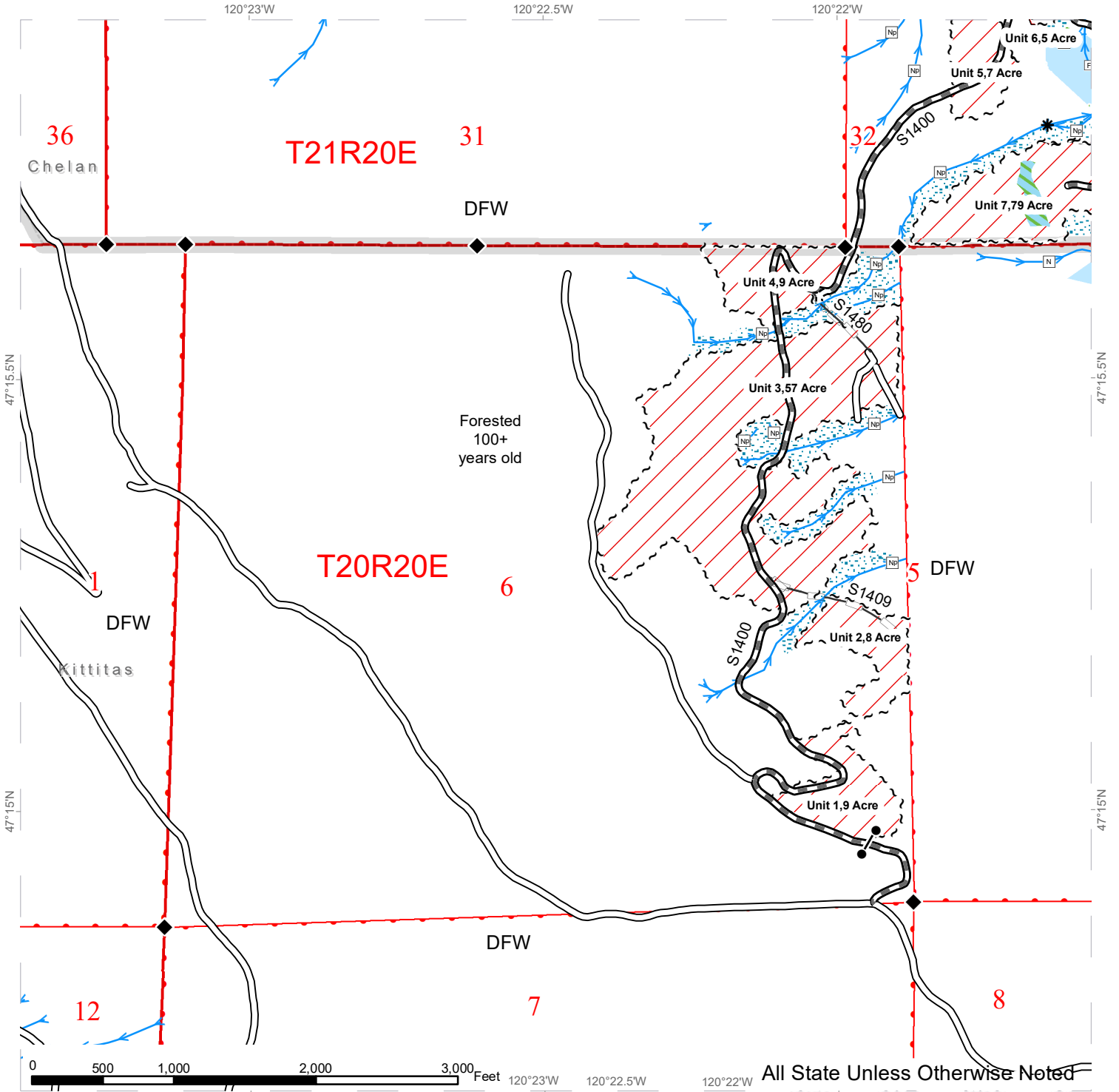
Date Submitted: \_\_\_\_\_ **3/4/2024** \_\_\_\_\_



# TIMBER SALE MAP

**SALE NAME:** Q FLY BY NIGHT  
**AGREEMENT #:** 30-106349  
**TOWNSHIP(S):** T20R20E, T21R20E  
**TRUST(S):** Agricultural School (4), Common School and Indemnity (3)

**REGION:** Southeast Region  
**COUNTY(S):** Chelan, Kittitas  
**ELEVATION RGE:** 4440-6160



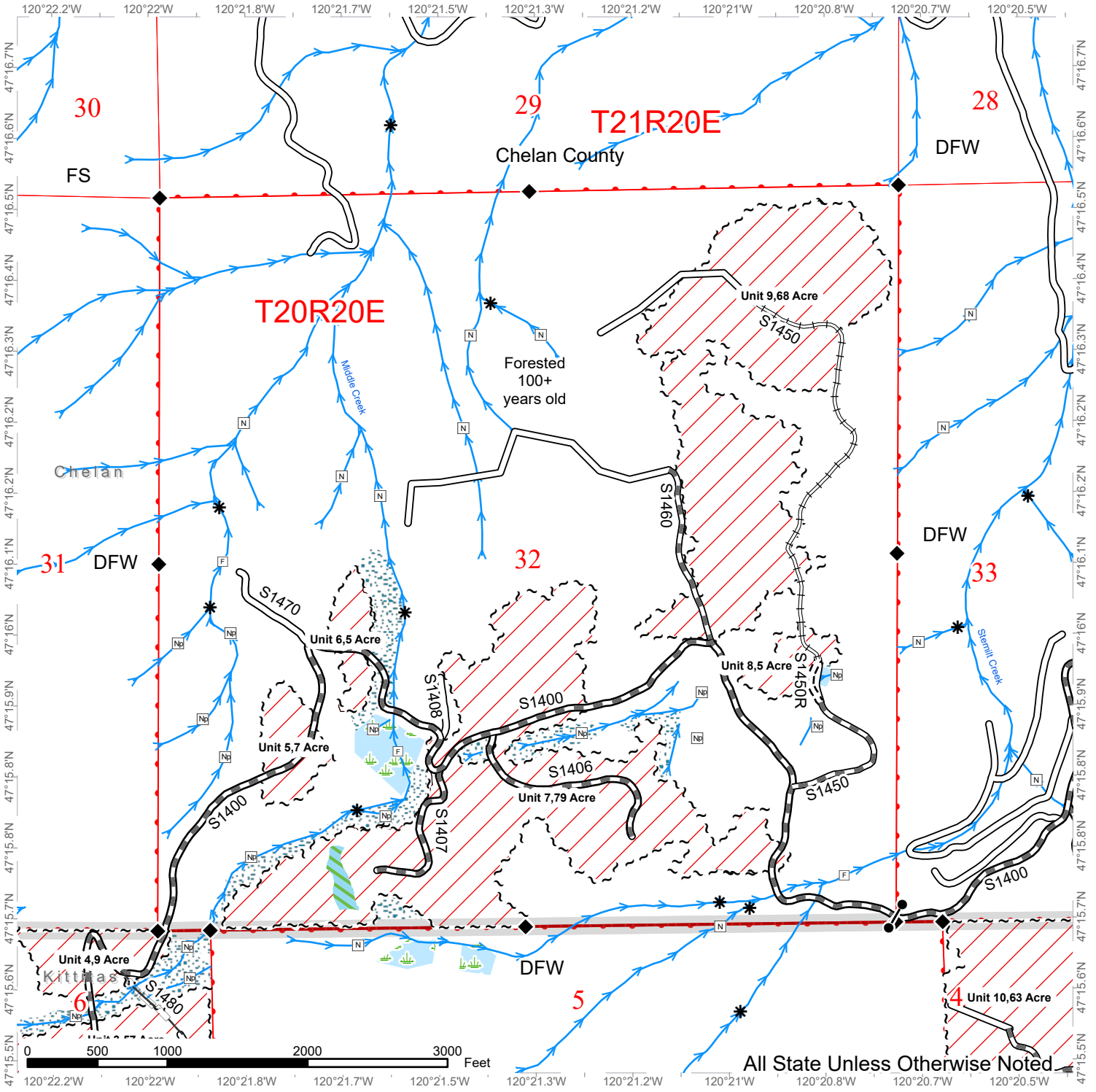
~ ~ ~ ~ Sale Boundary Tags	Gate	Existing Roads
DNR Managed Lands	Survey Monument	Required Pre-Haul Maintenance
Sale Area	Wetlands - Non-forested	Optional Reconstruction
Public Land Survey Townships	Riparian Mgt Zone	Required Reconstruction
County Boundary	Non-Tradable Leave Tree Area	Stream Type
Streams	Stream Type Break	



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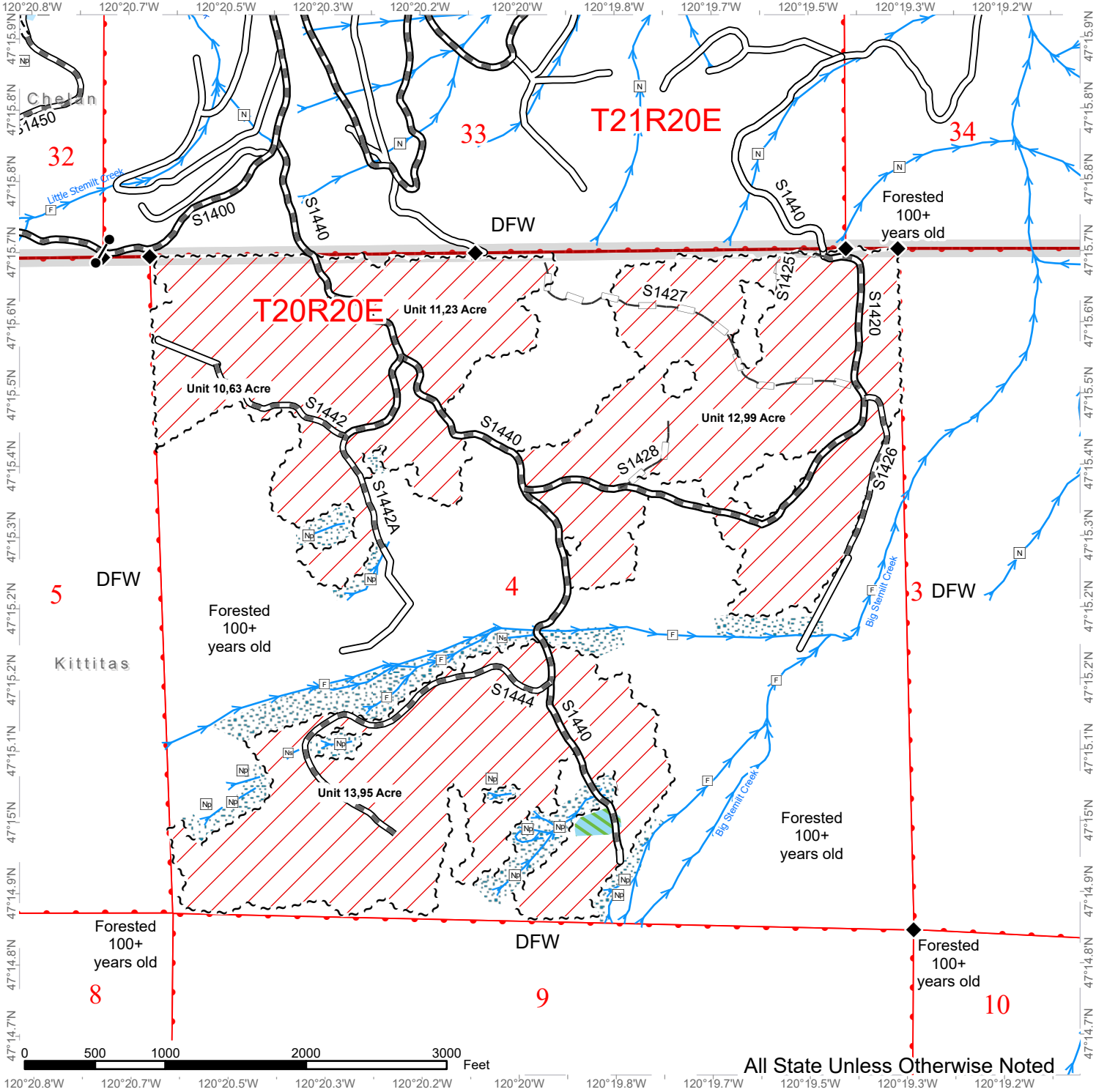


- |                              |                              |                               |
|------------------------------|------------------------------|-------------------------------|
| ~ ~ ~ Sale Boundary Tags     | ● Gates                      | Existing Roads                |
| DNR Managed Lands            | ◆ Survey Monument            | Required Pre-Haul Maintenance |
| Sale Area                    | Wetlands - Non-forested      | Optional Reconstruction       |
| Public Land Survey Townships | Riparian Mgt Zone            | Required Reconstruction       |
| County Boundary              | Non-Tradable Leave Tree Area | Stream Type                   |
|                              | Streams                      | * Stream Type Break           |

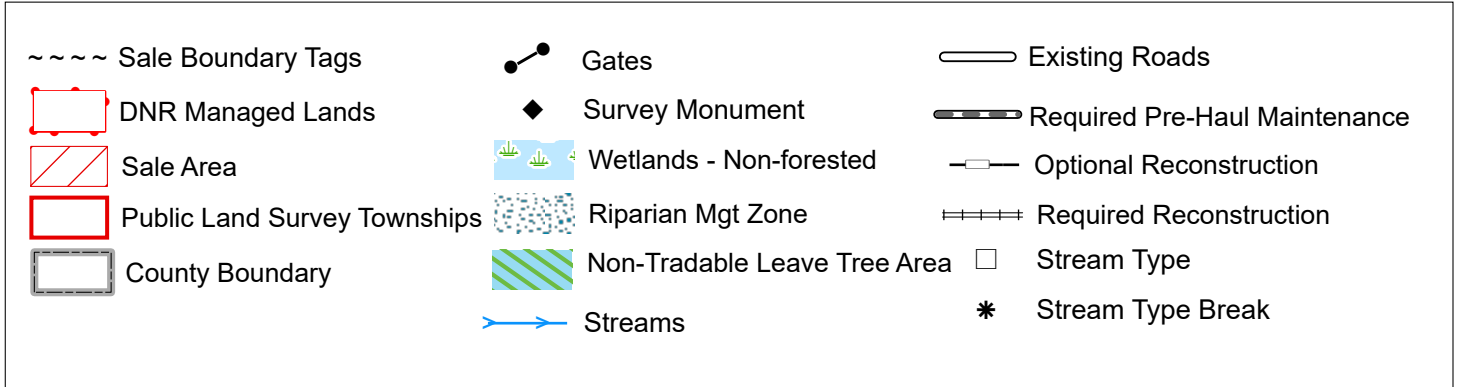
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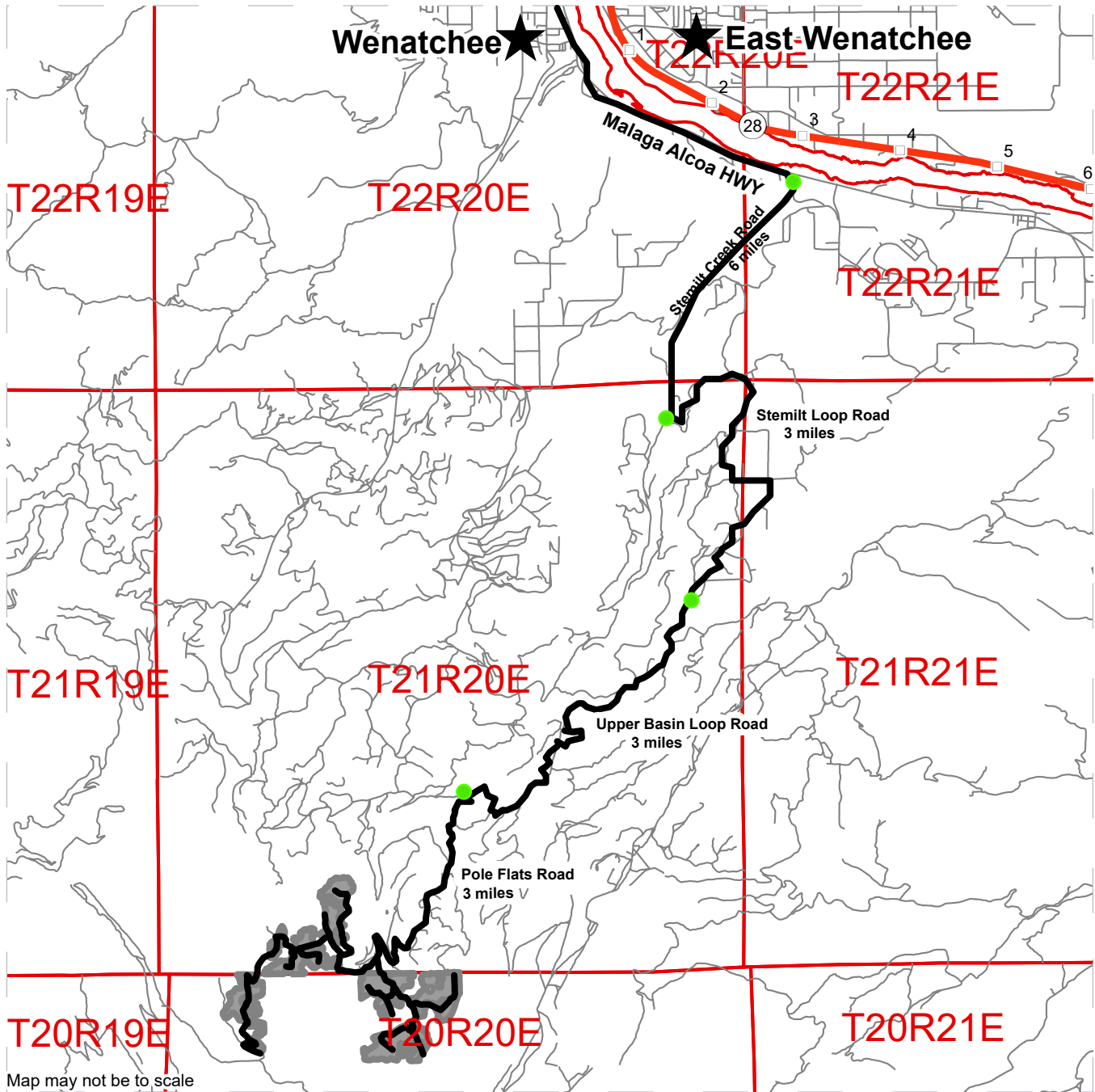
All State Unless Otherwise Noted



# DRIVING MAP

**SALE NAME:** Q FLY BY NIGHT  
**AGREEMENT#:** 30-106349  
**TOWNSHIP(S):** T20R20E, T21R20E  
**TRUST(S):** Agricultural School (4), Common School and Indemnity (3)

**REGION:** Southeast Region  
**COUNTY(S):** Chelan, Kittitas  
**ELEVATION RGE:** 4440-6160



**Legend**

- Timber Sale Unit
- Haul Route
- ★ Town
- Highway
- Other Road
- Milepost Markers
- Distance Indicator

**DRIVING DIRECTIONS:**

The sale area is approximately 20 miles south of Wenatchee, WA in the Naneum Ridge State Forest. From Wenatchee drive southeast to Malaga HWY. Turn right at Stemilt Creek rd. In about 6 miles turn left onto Stemilt Loop road. Continue for about 3 miles. Turn onto S1200 (Upper Basin Loop rd). Continue for about 3 miles and turn left onto S1400 (Pole Flats rd) and continue for about 3 miles.

**U10-13 Access:**  
 Turn left onto S1440. Units 10 and 11 are in 800 feet. Units 12 and 13 are about 0.5 mile along S1444.

**U1-9 Access:**  
 Continue on Pole Flats rd through the gate. The rest of the units are past the gate.  
 U8-9: After passing the gate, in about 0.3 miles turn right on S1450. Both units are along the main road (S1400).  
 U1-7: Continue on the main road (S1400) for about 3 miles. Units are along the road until the second gate.

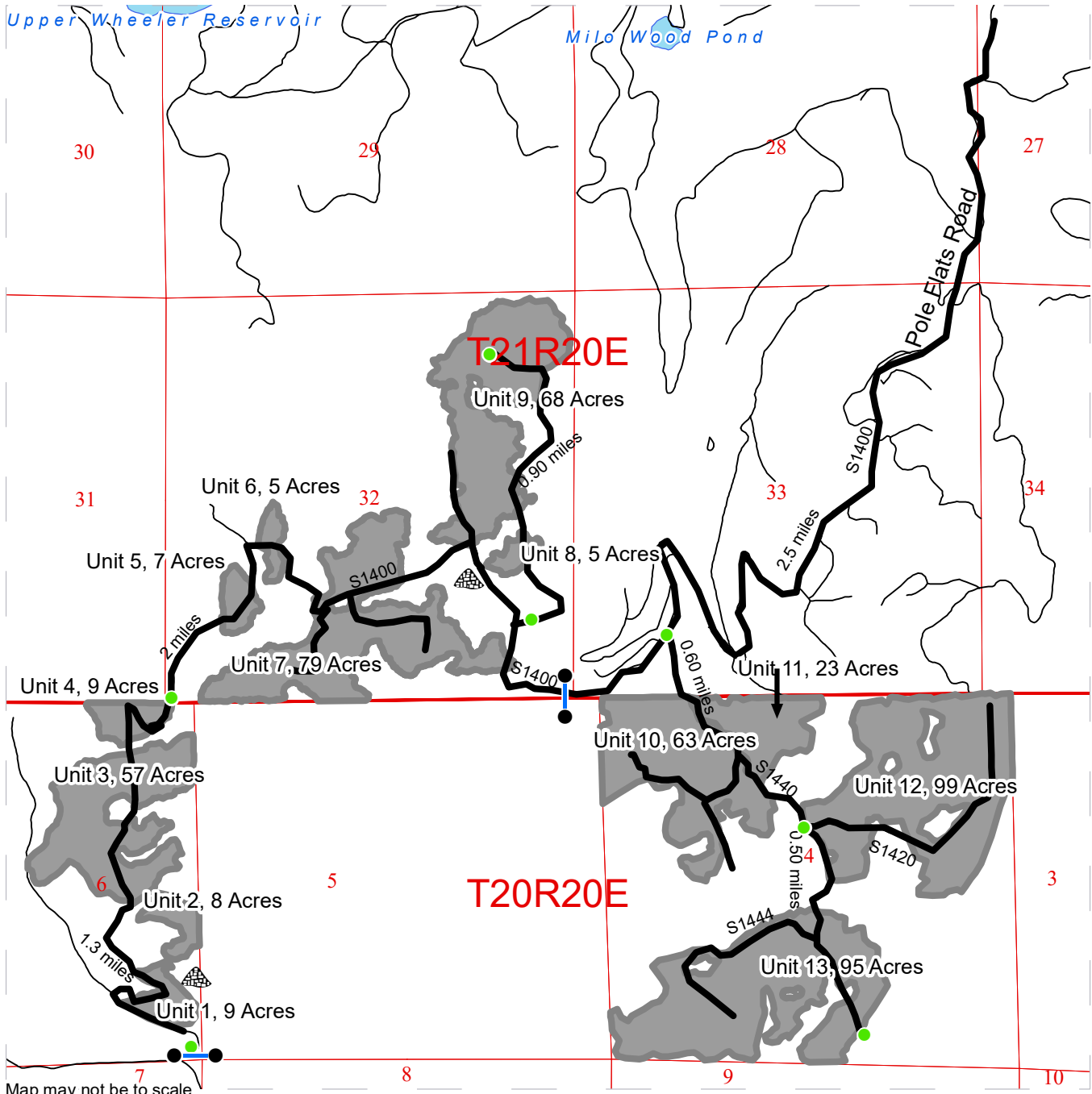
Modification Date: mman490 3/1/2024



# DRIVING MAP

**SALE NAME:** Q FLY BY NIGHT  
**AGREEMENT#:** 30-106349  
**TOWNSHIP(S):** T20R20E, T21R20E  
**TRUST(S):** Agricultural School(4), Common School(3)

**REGION:** Southeast Region  
**COUNTY(S):** Chelan, Kittitas  
**ELEVATION RGE:** 4440-6160



Map may not be to scale

	Timber Sale Unit
	Haul Route
	Gate
	Distance Indicator
	Other Road
	Stock Pile/Rock Source

**Driving Directions:**

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