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.

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:

Please adjust the format of this template as needed. Additional information may be necessary to evaluate the existing environment, all interrelated aspects of the proposal and an analysis of adverse impacts. The 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 [help]

1. Name of proposed project, if applicable:

Bloedel-Ruddock Well Plugging and Abandonment Project

2. Name of applicant:

Jesse Harris

Glenn Springs Holdings Inc.
3. Address and phone number of applicant and contact person:
   1201 Lake Robbins Drive,
   The Woodlands, TX 77380
   832-636-1558 Direct Line
   936-554-8194 Cell

4. Date checklist prepared:
   September 2021

5. Agency requesting checklist:
   Department of Natural Resources

6. Proposed timing or schedule (including phasing, if applicable):
   The proposed project includes three phases:
   - Phase I—Reestablish Overland Access to Well Site
   - Phase II—Plug and Abandon (P&A) Well
   - Phase III—Restore/replant/stabilize the work pad and highway pullout
   At this time, it is anticipated that Phase I and II will be completed in late 2021 depending upon receipt of necessary authorizations, landowner agreement, and equipment and crew availability; and Phase III in 2022. However, depending upon project proponent internal scheduling and external permitting scheduling/landowner agreement, all Phases may be completed in 2021 or 2022.

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.
   No. There are no future additions, expansions, or further activities related to or connected with this proposal.

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.
   A wetland and waterbody delineation survey was conducted in August 2019, and a subsequent Wetland Delineation Report prepared.
   A habitat assessment pedestrian survey conducted in August 2019, and a subsequent Habitat Assessment Report prepared.
   The Washington State WISAARD system was queried in September 2019.
   The USFWS Information for Planning and Consultation (IPaC) system was queried in January 2020.
   A Washington Natural Heritage Program Project Area Report was obtained in January 2020.

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.
   To the knowledge of the applicant, no other applications are pending.

10. List any government approvals or permits that will be needed for your proposal, if known.
    The project proponent will apply for the following discretionary approvals or permits:
Department of Natural Resources, Forest Practices Permit

Department of Ecology, General Permit for Stormwater Runoff Associated with Construction Activities

The project proponent will apply for the following ministerial approvals or permits:

Washington Department of Transportation Oversize/Overweight Permits

City of Forks Application for Driveway Approach

The Washington State Department of Natural Resources Oil and Gas Supervisor will review and approve the proposed method and procedure for plugging on Oil & Gas Form-3 (Notice of intention to abandon and plug well) prior to mobilization of equipment.

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.)

The following is based upon applicant's knowledge and belief at the time of the application. Multiple factors including, but not limited to, weather-related delays, permit delays and other like obstacles could affect the proposed timing and P&A strategy outlined herein.

The proposed project addresses the plugging and abandoning of the Bloedel-Ruddock exploration well. The well is non-producing. The Bloedel-Ruddock exploration well will be plugged in accordance with Washington Administrative Code Section 344-12-131, Procedure for plugging. This Section requires the placement of cement plugs within the well bore at discrete downhole locations to prevent vertical migration of fluids and gas through the bore hole, to isolate oil and gas bearing strata, and to protect drinking water zones by isolating water-saltwater formations from each other and from oil and gas bearing zones. A preliminary plugging plan has been developed and is attached to the Notice of Intention to Abandon and Plug Well (Oil & Gas Form 3) developed for the project. The plugging plan may be adjusted as needed during the final planning for the activity, and may be modified in-the-field based on additional downhole data if attainable.

The project will require the rehabilitation of up to approximately 4,100 feet of existing abandoned roads and forest roads. The roads would be built to Board Manual standards. In addition, a graveled/rocked 250’ x 250’ (1.4 acre) work pad to support closure equipment would be cleared and constructed at the well site, and an approximately 0.3 acre pull-off area may be constructed adjacent to US 101. Erosion control measures, as contained in a Stormwater Pollution Prevention Plan approved under a Construction Stormwater General Permit, will be incorporated to ensure that no overland flow can occur and all fluids used in the project will be captured and removed from site.

Upon completion of the well plugging activities, the gravel from the work pad will be piled and stored on-site and the road improvements will remain as per landowner requirements. The landowner will reforest per the Forest Practices permit obtained for the road rehabilitation and pad development.

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 maps required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist.

The proposed project is located in the City of Forks in Clallam County.

The proposed project is located on the following parcels: 132004140100, 132004140125, 132004140150, and 132804220000.

The parcels are located in Township 28N, Range 13W, Sections 4 and 5.
B. Environmental Elements [help]

1. Earth [help]

a. General description of the site:

(circle one): Flat, rolling, hilly, steep slopes, mountainous, other _____________

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

5.8 percent

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.

The Natural Resource Conservation Service SSURGO database indicates the soil across the proposed project area is Solduc very gravelly sandy loam. The Clallam County GIS Multipurpose Map confirms this. The proposed project is not located on parcels used for agricultural purposes. The proposed project would not remove soils from the site.

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

There are no surface indications or history of unstable soils at the surface in the areas where the proposed project would be executed. No portion of the proposed project area is located in an area identified as a Geohazard or Seismic Hazard in the Clallam County GIS Multipurpose Map.

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.

The work pad area will be graded (including filling of low areas and cutting of high areas); this grading is necessary because the P&A equipment must be positioned on, and operated from, a generally level area. The total area of the work pad would be approximately 1.4 acres.

The existing access road would be widened in places. Cut material will be used during rehabilitation of the access road to fill low spots and will be used as fill during grading of the work pad. The length of the existing access road could be bladed prior to the placement of aggregate.

Aggregate material for the access roads and work pad would be sourced from the project site or from a local, off-site commercial purveyor. No material will be exported from the site.

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

The proposed project site is not particularly susceptible to erosion due to the low topographical relief across the site and the soils at the site, for which the hazard of water erosion is slight (Halloin 1987). Erosion could occur as a result of clearing and grading the work pad area, and the rehabilitation of the existing access road (including from the cut and fill of small areas along the existing access road).

g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?

Zero (0) percent of the site will be covered with impervious surfaces at the conclusion of the proposed project.

h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:

Although the proposed project site is not particularly susceptible to erosion, the following measures will be implemented:

- Prior to the start of construction, the project proponent will develop a stormwater pollution prevention plan (SWPPP) and will obtain coverage under the State’s Construction Stormwater General Permit (CSWGP) (if necessary).
- During all phases and as required, the project proponent will implement sediment, erosion, and pollution prevention control measures.
- Improvements to the work pad area and access road will be removed (subject to landowner agreement) and the work pad area would be restored/replanted per the SWPPP and/or the landowners’ requirements.
2. Air [help]

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.

During Phases I, II, and III, emissions to the air would be generated from the use of internal combustion engines. These emissions would include particulate matter, volatile organic compounds, oxides of nitrogen, and oxides of sulfur emitted from internal combustion engines. There are no operation or maintenance activities associated with the proposed project.

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

There are no off-site sources of emissions or odors that would affect the proposed project.

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

No measures specifically designed to reduce or control emissions are proposed; however, emissions from construction equipment will be reduced and controlled through typical best practices including minimizing idling time and using equipment with functional factory-equipped emissions control equipment.

3. Water [help]

a. Surface Water: [help]

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.

A forested wetland and an ephemeral streambed were delineated in the vicinity of the proposed project (please see Wetland Delineation Report and associated figures). The ephemeral streambed is not hydraulically connected to any other stream, river, or water body; its source is primarily runoff from US 101, and its sink is a depressional area along the access road.

The Calawah River, a year-round stream, is located more than 500 feet from the nearest portion of the proposed project.

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.

The proposed project will not require work over or in the described waters. The existing access road that is located adjacent to the identified ephemeral streambed will be rehabilitated under the proposed project. No access road rehabilitation work will occur within, or will affect, the ephemeral streambed, and the road rehabilitation work will not modify the flow regime or pattern of the ephemeral stream.

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.

No fill or dredge material would be placed in or removed from surface water or wetlands.

4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known.

The proposed project would not require surface water withdrawals or diversions. No access road rehabilitation work will occur within, or will affect, the ephemeral streambed, and the road rehabilitation work will not modify the flow regime or pattern of the ephemeral stream.

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

No portion of the proposed project lies within a 100-year floodplain.

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.
The proposed project does not involve the discharge of waste material to surface waters. All waste material would be contained in portable tanks or within secondary containment at the well site.

b. Ground Water: [help]

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.

Groundwater would not be withdrawn from a well for drinking water and would not be withdrawn for any productive use. It is not anticipated that any groundwater will be extracted from the well during the plugging and abandoning activities.

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.

No waste material will be discharged into the ground as part of the proposed project.

c. 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.

Stormwater would account for the only source of potential runoff from the proposed project. No runoff would be collected or disposed.

The soil across the proposed project area is a very gravelly sandy loam with a moderate permeability and displaying a medium runoff. Stormwater that does not infiltrate the work pad would generally flow to the east/southeast/south until it either infiltrates through unimpacted soils outside the graded work pad area or until it contacts the existing access road in the area. The slope of the existing access road impedes surface water flow, with waters either ponding and infiltrating or flowing along the side of the access road to an eventual sink. Stormwater from the work pad area would not flow into other waters.

Runoff from the rehabilitated access road would not flow into other waters; runoff would either pond along the side of the road and infiltrate or would flow downhill and infiltrate native soils.

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

Waste materials would not enter ground or surface waters. Waste materials generated on-site would be managed in compliance with relevant federal, state, and local regulations; such management would ensure that waste materials are not released to ground or surface waters.

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

The proposed project would alter and affect drainage patterns in the immediate vicinity of the work pad. To create a level work area for the well plugging and abandoning equipment, the work pad area would be graded and compacted, and then rock/gravel would be placed across the work pad. During Phase III, the rock/gravel would be removed and the surface of the work pad would be scarified. However, the work pad area would not be returned to the original grade. Therefore, the drainage pattern in the immediate vicinity of the work pad area would be permanently altered. However, the overall drainage patterns of the parcels on which the proposed project will be located will not be altered or otherwise affected.

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

Runoff water across the proposed project site would be reduced and controlled through the following measures:

- Prior to the start of Phase I, the project proponent will develop a stormwater pollution prevention plan (SWPPP) and will obtain coverage under the State’s Construction Stormwater General Permit (CSWGP) (if necessary).
- During all phases, the project proponent will implement sediment, erosion, and pollution prevention control measures. Such measures will serve to control surface runoff, which is the cause of sedimentation, erosion, and pollution dispersement.

- During Phase III, improvements to the work pad area will be removed (subject to landowner agreement) and the work pad area would be reforested by the landowner per the Forest Practices permit obtained for the road rehabilitation and pad development. The restoration of the work pad area would serve to control surface and runoff waters following completion of the proposed project, and would mitigate potential impacts from changes to drainage patterns in the vicinity of the work pad.

4. Plants [help]

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

- _X_ deciduous tree: alder, maple, aspen, other
- _X_ evergreen tree: fir, cedar, pine, other
- _X_ shrubs
- _X_ grass
- ___ pasture
- ___ crop or grain
- ___ Orchards, vineyards or other permanent crops.
- _X_ wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other
- ___ water plants: water lily, eelgrass, milfoil, other
- ___ other types of vegetation

b. What kind and amount of vegetation will be removed or altered?

Approximately 1.8 acres of vegetation will be removed at the work pad, at a borrow area, and access road turnouts. Habitat within this area consists of a dense, sub-mature, single-layered mixed-conifer forest typical of commercial forestry plantations in the area. Common overstory tree species include Sitka spruce (Picea sitchensis), grand fir (Abies grandis), Douglas fir (Pseudotsuga menziesii), and western hemlock (Tsuga heterophylla), with individuals of red alder (Alnus rubra), vine maple (Acer circinatum), bigleaf maple (Acer macrophyllum), Scouler’s willow (Salix scouleriana), and cascara (Rhamnus purshiana). Common understory plants include sword fern (Polystichum munitum), huckleberry and blueberry (Vaccinium spp.), salal (Gaultheria shallon), dwarf rose (Rosa gymnocarpa), cascara, vine maple, salmonberry (Rubus spectabilis), blackberry (Rubus ursinus), and Himalayan blackberry (Rubus armeniacus).

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

No threatened or endangered plant species are known to be on or immediately near the site.

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

There is no landscaping included in the proposed project. The area cleared for the work pad area would be replanted with commercial tree species during Phase III of the proposed project or otherwise stabilized per the SWPPP.

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

The habitat assessment survey was not focused on the identification of noxious weeds or invasive species. Review of publicly-available GIS data from the Washington State Department of Agriculture does not indicate the presence of noxious weeds on or near the site. Where the existing access road intercepts US 101, conditions are appropriate for the presence of noxious weeds.
5. **Animals**

a. **List any birds and other animals which have been observed on or near the site or are known to be on or near the site.**

Examples include:

- **birds**: hawk, heron, eagle, songbirds, other:
- **mammals**: deer, bear, elk, beaver, other:
- **fish**: bass, salmon, trout, herring, shellfish, other ________

Bird species observed during the habitat assessment survey include corvids (ravens \( \text{Corvus corax} \) and crows \( \text{likely Corvus caurinus} \)).

No large mammalian species were sighted during the survey. Prints of deer hooves and a canid species were seen in the access road; scat from deer and (potentially) bear were also seen in the access road. Squirrels were observed.

No fish species were observed on the proposed project site due to the lack of surface waters.

b. **List any threatened and endangered species known to be on or near the site.**

The United States Fish and Wildlife Service Information, Planning, and Consultation (IPaC) System indicates that the following species have the potential to occur in the project area: fisher \( \text{(Pekania pennant, proposed Federally Threatened)} \), marbled murrelet \( \text{(Brachyramphus marmoratus, Federally Threatened)} \), streaked horned lark \( \text{(Eremophila alpestris strigata, Federally Threatened)} \), and yellow-billed cuckoo \( \text{(Coccyzus americanus, Federally Threatened)} \).

The Washington Department of Fish and Wildlife Priority Habitats and Species dataset includes occurrence data for the northern spotted owl \( \text{(Strix occidentalis caurina, Federally Threatened)} \). This occurrence data is displayed at the Township scale (a 36 square mile area).

No threatened or endangered species are known to be on the site, and none are likely to be found on the site as presented in the species-specific discussions presented below:

**Fisher.** The USFWS IPaC tool indicates that fisher have the potential to occur in the project area. Fisher have been reintroduced on the Olympic Peninsula after being extirpated in the early 1900s. Three locales in the vicinity of Forks were surveyed for fisher in 2015 and 2016, with negative results (Lewis 2017). Fisher tend to avoid development and areas with significant human activity; therefore, it they are unlikely to be found on the project parcels due to the presence of Highway 101 and nearby developments associated with the City of Forks.

**Marbled murrelet.** Marbled murrelet have been documented within three miles of the proposed project location during the breeding season (approximately April to mid-September). The forested habitat along the access road and at the work pad area do not provide suitable nesting habitat for marbled murrelet. No large horizontal branches at least 4 inches in diameter and at least 30 feet above the ground surface were identified.

The multi-layered, mature forested habitat along the Calawah River located 300 to 500 feet from the nearest project component provides potential nesting habitat for marbled murrelet. The forest has suitable large-statured trees with structural diversity with vertical and horizontal canopy gaps, and large horizontal limbs at least 30 feet above the ground. However, the narrow (approximately 200-foot wide), linear nature of the riparian forest, and surrounding land uses with prevalent vehicle and equipment noise, reduces suitability of this riparian forest for nesting. Ravens and crows, which are nest predators for marbled murrelets, are common in the area. Therefore, habitat along the Calawah River is considered low quality for nesting marbled murrelet. This is supported by the lack of publicly available data indicating that marbled murrelet utilize these trees for nesting (USFWS 2014a). The marbled murrelet is not present on the affected parcels.

**Streaked horned lark.** The streaked horned lark is described as a bird "of wide open spaces with no trees and few or no shrubs. The streaked horned lark nests on the ground in sparsely vegetated sites dominated by grasses and forbs.” This habitat is not found on the affected parcels, or in the immediate vicinity. Further, the USFWS indicates
that the species does not occur in the project vicinity (USFWS 2019c). Therefore, the streaked horn lark is not present on the affected parcels.

**Yellow-billed Cuckoo.** The yellow-billed cuckoo is considered “functionally extirpated” in the State of Washington. Just 20 confirmed observations of yellow-billed cuckoo have been documented in Washington since the 1950s; none have been documented in Clallam County (Wiles and Kalasz 2017). Therefore, the yellow-billed cuckoo is not present on the affected parcels.

**Northern Spotted Owl.** The project parcels are located in the Hoh-Clearwater/Coastal Link spotted owl special emphasis area (SOSEA; Washington Administrative Code [WAC] 222-16-086, Northern spotted owl special emphasis areas and goals). The project parcels are designated as “Combination of Dispersal Support and Demographic Support”. WAC 222-16-086 notes:

Spotted owl dispersal habitat means habitat stands that provide the characteristics needed by northern spotted owls for dispersal. Such habitat provides protection from the weather and predation, roosting opportunities, and clear space below the forest canopy for flying. Timber stands that provide for spotted owl dispersal have the following characteristics:

(a) For western Washington, timber stands 5 acres in size or larger with:

(i) 70% or more canopy cover; and

(ii) 70% or more of the stand in conifer species greater than 6 inches diameter at breast height (dbh); and

(iii) A minimum of 130 trees per acre with a dbh of at least 10 inches or a basal area of 100 square feet of 10 inch dbh or larger trees; and

(iv) A total tree density of 300 trees per acre or less; and

(v) A minimum of 20 feet between the top of the understory vegetation and the bottom of the live canopy, with the lower boles relatively clear of dead limbs.

“Demographic support” means providing sufficient suitable spotted owl habitat within the SOSEA to maintain the viability of northern spotted owl sites identified as necessary to meet the SOSEA goals. (WAC 222-16-010). There is no description of demographic support habitat in the WAC.

Occurrence data contained in the publicly available WDFW PHS dataset is reported at the Township scale; a single occurrence in a Township triggers any part of that Township (36 square miles in area) to indicate the presence of northern spotted owl. The two occurrences of northern spotted owl reported for the Township date from 1991 and 2001. Other publicly available data indicates that the proposed project is located at a distance of greater than 5 miles from known spotted owl activity centers (USFWS 2014b).

The forest habitat density and structure in the vicinity of the proposed project is unsuitable for northern spotted owl nesting, foraging, or dispersal. While the forest provides complete canopy cover, the forest density is more than 500 trees per acre and lacks a canopy gap between the overstory and understory vegetation.

The Calawah River riparian forest habitat provides potential dispersal habitat for northern spotted owl, with structural diversity and vertical canopy gaps. However, the narrow (100 to 200-foot wide), linear nature of the riparian forest, and surrounding land uses, including US 101 and developed areas near the City of Forks, reduces suitability of this riparian forest for nesting. This riparian forest consists of essentially all edge habitat in proximity to rural residential land uses. Vehicle and equipment noise from adjacent land uses are prevalent. Therefore, habitat along the Calawah River has potential dispersal habitat but is considered low quality for nesting northern spotted owl.

c. **Is the site part of a migration route? If so, explain.**

The proposed project site is located in the Pacific Flyway, one of four major avian migration routes in the Continental United States. No portion of the proposed project is located within a Wildlife Corridor as shown in the Clallam County GIS Multipurpose Map.

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

No measures designed to preserve or enhance wildlife are included in the proposed project.

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

No invasive animal species are known to be on or near the proposed project site.
6. Energy and Natural Resources  [help]

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.

The completed project would have no energy needs.

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

The proposed project would not affect the potential use of solar energy by adjacent properties; no above-ground infrastructure would remain on the site following the plugging and abandoning of the existing exploration well.

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:

No energy conservation features are included in the proposed project; the proposed project would not consume energy after the project is competed.

7. Environmental Health  [help]

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.

Review of the Department of Ecology’s “Facility/Site database” and the Toxics Cleanup Program's What is in My Neighborhood map service indicate that there is no known contamination at the site. Detritus from the original well drilling activity is present in the vicinity of the well; there is no evidence that this detritus poses any environmental health hazard. The detritus will be removed from the site as part of the proposed project and disposed of accordingly.

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.

There are no existing hazardous chemicals/conditions known to be present at the well pad area or along the access road. Review of the Pipeline and Hazardous Materials Safety Administration’s National Pipeline Mapping System and the Washington Utilities and Transportation Commission’s Pipeline Safety Program data indicate that there are no underground hazardous liquid or gas transmission pipelines on or in the vicinity of the affected parcels. There is no subsurface infrastructure located at the well pad area (except for the existing exploration well). Underground telecommunications cable and an aboveground telecommunications cabinet are located adjacent to US 101 where the rehabilitated access road/pull out will be established; the aboveground telecommunications cabinet would be protected in-place and would not affect the design or execution of the proposed project.

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.

No acutely hazardous materials would be used or stored on location during construction of the proposed project. Toxic and hazardous chemicals—including those typically associated with construction activities such as gasoline, diesel, oil, solvents, and lubricants—would be used during all Phases of the proposed project. A spill prevention, control, and countermeasures (SPCC) plan will be developed and implemented as necessary. No toxic or hazardous chemicals would be stored, used, or produced during the “operating life” of the proposed project as there are no phases of the proposed project beyond the restoration/replanting activities included in Phase III.

4) Describe special emergency services that might be required.

No special emergency services would be required. The project proponent has in the past coordinated activities related to the exploration well with Clallam County Fire District No. 1 (which provides fire and emergency services within the City of Forks), and will continue such coordination through completion of the proposed project.

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

Hazardous materials management would include compliance with a project-specific SWPPP and a spill prevention,
control, and countermeasures (SPCC) Plan, if necessary, and implementation of best management practices (BMPs) related to fueling and the handling, use and storage of hazardous materials. All transport of hazardous materials would comply with applicable laws, rules, and regulations, and would use applicable BMPs, including the acquisition of required shipping papers, package marking, labeling, transport vehicle placarding, training, and registrations. Crews would implement proper hazardous materials management activities, which would include preparation and implementation of plan(s) such as a hazardous materials management plan for the proposed project, before field construction activities begin, that would outline the proper procedures for the handling, use, storage, and disposal of hazardous materials.

b. Noise

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

Extant sources of noise in the area include vehicle traffic on US 101 and the rural residential area located south of the Calawah River. Noise from these sources, or any other source, would not affect the proposed project.

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.

No long-term noise would be generated from the proposed project; when the existing exploration well is plugged and abandoned, no proposed project-related activities would occur on the site.

Short-term noise would be generated during Phases I through III. Noise would be generated generally between the hours of 0700 and 2200 in accordance with Section 9.10.020 of the City of Forks Code of Ordinances; if work outside these hours is necessary, the project proponent will communicate such work to, and coordinate such work with, the City.

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

The nearest potentially sensitive noise receptors are located more than 900 feet to the east-southeast and south-southeast of the work pad area. An approximately 200 foot-wide riparian buffer along the north bank of the Calawah River is located between the stationary sources of noise associated with the proposed project and these potentially sensitive noise receptors. Because of the noise-dampening effects of this buffer, as well as the linear distance between the work pad (the source of the noisiest work activities) and the potentially sensitive noise receptors, no measures to reduce or control noise during the construction of the proposed project are proposed.

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.

The parcels on which the proposed project will be executed are uninhabited and used as working forest lands. The proposed project will not affect the long-term use of the directly-affected, nearby, or adjacent properties; following construction, all components of the proposed project would be removed and cleared areas would be restored or replanted.

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 nonforest use?

The parcels on which the proposed project will be executed have been used, and are currently used, as working forest lands. The parcels were logged (clear-cut) in the late 1980s/early 1990s and replanted. No portion of the parcels will be converted to nonforest uses as a result of the proposed project.

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:

The proposed project will not affect, or be affected by, surrounding working forest land operations.

c. Describe any structures on the site.

There are no structures on the site; a chain link security fence surrounds the existing exploration well bore.
d. Will any structures be demolished? If so, what?
There are no structures on the site, and therefore no structures will be demolished. When the existing exploration well is plugged and abandoned, the chain link security fence currently surrounding the well will be removed.

e. What is the current zoning classification of the site?
The parcels are zoned Moderate Density Commercial and Very Low Density Residential.

f. What is the current comprehensive plan designation of the site?
The Clallam County Comprehensive Plan lists the designation of the affected parcels as 'City'. The City of Forks Comprehensive Plan designates the affected parcels as 'Moderate Density Commercial' and 'Very Low Density Residential'.

g. If applicable, what is the current shoreline master program designation of the site?
Not applicable; no portion of the affected parcels has a shoreline master program designation.

h. Has any part of the site been classified as a critical area by the city or county? If so, specify.
No portion of the proposed project area has been classified as a critical area by either the City of Forks or Clallam County.

i. Approximately how many people would reside or work in the completed project?
No people would reside or work “in” the completed project; after the plugging and abandoning of the existing exploration well, all components of the proposed project would be removed.

j. Approximately how many people would the completed project displace?
The completed project would not displace any people.

k. Proposed measures to avoid or reduce displacement impacts, if any:
The proposed project would not displace any people; therefore, no measures to avoid or reduce displacement impacts are proposed.

l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:
The proposed project would remove an incompatible land use (the existing exploration well, which is not listed as a Permitted, Conditional, or Special use on the parcel per the City of Forks Zoning Ordinance). Following the plugging and abandoning of the well, all components of the proposed project would be removed, and the proposed project would return the land to compatibility with the existing zoning for the parcel.

m. Proposed measures to reduce or control impacts to agricultural and forest lands of long-term commercial significance, if any:
At the completion of the proposed project, the areas cleared to support construction would be reclaimed and/or replanted; this measure will reduce impacts to the affected forest lands.

9. Housing [help]

a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.
No housing would be provided under the proposed project.

b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.
No housing would be eliminated under the proposed project.

c. Proposed measures to reduce or control housing impacts, if any:
No housing would be provided or eliminated under the proposed project. Therefore, no housing-related impacts would be realized under the proposed project, and no measures to reduce or control impacts are proposed.
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?

No structures would be installed under the proposed project.

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

There are no views of the project area from publicly-accessible locations or private residences; the well pad area and the access road are generally shielded from public view by forested areas along US 101. The only view that would be altered is that of motorists travelling on US 101 past the point where the access road intersects US 101. Alterations to the view would be temporary, lasting only as long as the proposed project. Therefore, no views would be altered or obstructed in the long-term.

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

No permanent aesthetic impacts would be realized from the proposed project, and therefore no measures are proposed to reduce or control impacts.

11. Light and Glare

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

The proposed project would not produce any permanent light or glare; no permanent structures would be installed that could produce light or glare. During the plugging and abandonment of the existing exploration well, the work pad could be illuminated during nighttime hours for security purposes or if well-work activities during nighttime hours are necessary.

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

The light generated from the work pad area during the plugging and abandoning of the existing exploration well would not be a safety hazard or interfere with views; the surrounding forested areas would shield local roadways and residences from light generated during the well plugging and abandoning activities.

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

Existing off-site sources of light or glare would not affect the plugging and abandoning of the existing exploration well.

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

The proposed project's plugging and abandoning activities would generally be performed during daylight hours; this measure will reduce any potential impacts resulting from the need to light the work pad during plugging and abandoning activities. If the work pad area requires illumination for security or to support work that must be conducted at night, construction lighting would be directed inward and focused on the work area, and would be used only temporarily during construction.

12. Recreation

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

Calawah River Park is located approximately 650 feet south-southeast of the nearest proposed project component; the Park is located across the Calawah River from the affected parcels. The Park offers an off-leash dog area, picnic tables, and a boat launch.

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

The proposed project would not displace any existing recreational uses; the proposed project is located on privately-owned parcels that are used as forestland. The plugging and abandoning of the existing exploration well would not displace any users of the Calawah River Park given the distance between the Park and the work pad.
c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:

No impacts to recreational areas or recreational opportunities would result from the plugging and abandoning of the existing exploration well. Therefore, no measures are proposed.

13. **Historic and cultural preservation**  [help]

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.

The existing exploration well is over 45 years old. No above-ground portions of the original exploration well remain on the site. The existing exploration well is not likely eligible for listing in national, state, or local preservation registers.

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.

No professional studies have been conducted at the site to identify such resources.

A search of the Government Land Office (GLO) plats shows no listed historic structures in the project area. A portion of the access road is a railbed once used to support logging operations in the area; the railroad infrastructure was in use as early as the 1930s and removed in the 1970s (http://www.craigmagnuson.com/oldtrain.htm). The existing exploration well has not been reviewed for eligibility, but is not likely to be eligible. No cemeteries are located on the affected parcels.

No archaeological sites have been documented in the project area or nearby. The Department of Archaeology and Historic Preservation’s Archaeological Site Predictive Model indicates the project area is in a “High Risk” (i.e., high potential) area for archaeological sites. However, past land use (including clearcutting of the affected parcels in the late 1980s/early 1990s) suggest that any archaeological sites that may have been extant would likely have been denigrated during these past activities.

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.

A records search through the Washington Information System for Architectural and Archaeological Data (WISAARD) was conducted on September 23, 2019. The records search indicated that no previous surveys have been conducted in the project area and no cultural resources have been previously documented. Government Land Office (GLO) plats have been searched. Letters have been sent to tribes requesting that they conduct a review of the location for any cultural resources of Native American Concern or Traditional Cultural Use that may be located within the project area.

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 proposed project is not anticipated to impact any cultural or historical resources; an Inadvertent Discovery Plan has been developed for the proposed project.

14. **Transportation**  [help]

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.

The proposed project would be served from US 101; this is the sole public roadway that provides access to the affected parcels. The work pad would be linked to US 101 through re-establishment of an existing access road on the affected parcels.
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?

The City of Forks is served by the Clallam Transit System, which operates a route from Forks to Port Angeles (Route 14, Forks), as well as a local route in the City of Forks (Route 17, Forks Shuttle). Routes 14 and 17 operate as whistlestop services; riders may signal the bus to stop at any location along the routes.

c. How many additional parking spaces would the completed project or non-project proposal have? How many would the project or proposal eliminate?

No new parking spaces are included in the proposed project, and no parking spaces would be eliminated under the proposed project.

d. 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).

The proposed project would not require any new, or improvements to existing, public roadways. The private access road located on the affected parcels will be rehabilitated to support the equipment necessary to plug and abandon the existing exploration well. The improvements would include widening the existing access road in places, constructing pull-outs along the existing access road to facilitate two-way travel, and placing aggregate on the surface of the existing access road to facilitate all-weather travel. These improvements are described in detail in the project description.

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

The proposed project will not use, and is not located in the immediate vicinity of, water, rail, or air transportation.

f. 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 nonpassenger vehicles). What data or transportation models were used to make these estimates?

When completed at the conclusion of Phase III, the proposed project would generate no vehicular trips.

g. 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.

Movement of the specialized plugging and abandoning equipment to the proposed project site, and daily crew vehicle movements to the proposed project site, will not interfere with, affect, or be affected by the movement of forest products. During movement of the specialized equipment to the project site, the project proponent will implement traffic control on US 101 (e.g., utilizing flagpersons to temporarily halt traffic on US 101 where the access road intersects the highway to ensure the safe transition of specialized equipment from the highway to the access road or vice versa). The proposed project includes pull-off area adjacent to US 101 which will ensure that daily crew vehicle movements do not interfere with or affect traffic on US 101.

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

The proposed project will implement traffic control, as approved by the Washington Department of Transportation, at select times during the plugging and abandoning activities to reduce and control any transportation-related impacts.

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.

The proposed project would not result in an increased need for public services. Work will be performed in accordance with applicable federal, state, and local regulations designed to protect workers and the environment, and according to the project proponent’s internal health, safety, and environment procedures and protocols. This will ensure that work is performed safely, and thus no burden on local health care or fire protection services will be generated. Further, the proposed project does not entail an increase in the population of the area that could result in an increased need for public services.
b. Proposed measures to reduce or control direct impacts on public services, if any.
No measures are proposed.

16. Utilities  [help]
a. Circle utilities currently available at the site:
electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other ____________
No utilities are currently installed on the affected parcels. Telephone and electric lines are located along US 101.
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.
No utilities are proposed for the project; during the plugging and abandoning activities, electricity will be generated on-site, water will be trucked to the site, and wastewater will be removed from the site and disposed off-site at an appropriate wastewater treatment facility.

C. Signature  [help]
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  _Jesse Harris __________________________________________
Position and Agency/Organization  _Project Manager, Glenn Springs Holdings, Inc. _____________________
Date Submitted:  14 Sep 2021_____________

D. Supplemental sheet for nonproject actions  [help]
None necessary.


