



## **PRE-SALE REPORT**

### **HARRIS FORKS**

**CR401414**

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**REVIEWED BY:** Keith Brink, Lands Resource Supervisor

**APPROVED BY:** Jay L. Sila, Lands Area Manager

## I. GENERAL INFORMATION

- A. General Location:** This sale is located approximately seven miles northwest of Headquarters, Idaho.
- B. Historical:** This sale was last harvested in 1977 with TS-2089. This sale removed all trees greater than nine inches diameter at breast height (DBH). Sale area was thinned in the early 1980s.
- C. Purpose of Sale:**
1. Maximize long-term revenue to Endowments through sustainable management of endowment timberlands.
  2. Move towards the Area's Desired Future Conditions (DFC) by adjusting species composition to more seral species (ponderosa pine, western larch, and Douglas-fir) which are more resistant to fire, insects and pathogens and by adjusting the age/size class distribution on the area to reduce defect, mortality, and improve growth.
  3. Initiate regeneration and improve forest health by harvesting trees infected by Indian Paint fungus, root rot diseases, and red heart fungus.

## II. CURRENT CONDITIONS

### A. Physiographic:

1. Drainages: There are several unnamed Class II streams located within or adjacent to the sale. Streams are tributary to Harris Creek, which drains into Reeds Creek, a Class I stream. Reeds Creek is 303(d) listed for sediment, meaning that a Total Maximum Daily Load, (TMDL) will be developed for sediment. Based on temperature surveys it is also recommended that Reeds Creek be listed for temperature during the next listing cycle. There are no bull trout assessed streams within the sale area. This sale activity should not have negative effects upon the streams identified within the sale area.
2. Aspect: Primarily West.
3. Slopes: 0% - 60%, Average 28%.
4. Soil Characteristics: The primary soil in this area is the Riswold-Grangemont complex. Parent material is volcanic ash over loess over colluvium derived from basalt. These soils are comprised of a very small layer of decomposed plant material over ashy silt loam for the upper nine inches, changing to a silt loam with increasing coarseness with depth. These soils are generally located on slopes between 5 and 30 percent. Soils are well drained with over 80 inches to a restrictive feature. This area receives between 35 and 50 inches of precipitation annually. The mean air temperature is 38-44 degrees Fahrenheit, with 50-110 frost free days per year.
5. Elevation: 3,160' – 3,360', Average 3,260'.

**B. Stand Description:**

1. Habitat Type: THPL/ADPE western redcedar/maidenhair fern.
2. Pathological: There are currently no pathological outbreaks within the sale area.
3. Entomological: There are no major insect infestations within the sale area.
4. Current Stand Structure:

| UNIT | TYPE | SPECIES COMPOSITION (MBF %)           | AGE | TEN YEAR GROWTH RATE (INCHES) | ACRES |
|------|------|---------------------------------------|-----|-------------------------------|-------|
| 1    | 23   | DF(47),GF(34),CE(13),<br>WP(5),WL (1) | 50  | 0.17                          | 39    |
| 2    | 23   | GF(49),DF(37),CE(14)                  | 50  | 0.15                          | 42    |
| 3    | 23   | GF(66),DF(13),CE (13),WL (8)          | 50  | 0.13                          | 53    |
| 4    | 23   | GF(56),DF(24),CE(14),WL(5),<br>WP (1) | 50  | 0.14                          | 17    |
|      |      |                                       |     | <b>Total Acres:</b>           | 151   |

**III. MANAGEMENT PLAN****A. Transportation Plan:**

| ROAD TYPE           | WORK PERFORMED   | MILES |
|---------------------|------------------|-------|
| Spur                | New Construction | 1.79  |
| Spur                | Opening          | 0.50  |
| <b>Total Miles:</b> |                  | 2.29  |

**B. Silvicultural and Harvest Plan:**

## 1. Treatment Summary:

| UNIT | SILVICULTURAL PRESCRIPTION | NET ACRES | CURRENT MBF/ACRE | CURRENT TREES PER ACRE (TPA) |
|------|----------------------------|-----------|------------------|------------------------------|
| 1    | Clearcut                   | 39        | 27.00            | 164                          |
| 2    | Clearcut                   | 42        | 36.00            | 186                          |
| 3    | Clearcut                   | 53        | 42.00            | 229                          |
| 4    | Right-of-Way               | 17        | 36.00            | 197                          |

## 2. Anticipated Stand Composition:

| UNIT                | TYPE | SPECIES COMPOSITION (%TPA) | TPA | ACRES |
|---------------------|------|----------------------------|-----|-------|
| 1                   | 50   | WL(10), DF(90)             | 436 | 39    |
| 2                   | 50   | WL(10), DF(90)             | 436 | 42    |
| 3                   | 50   | WL(10), DF(90)             | 436 | 53    |
| 4                   | 90   |                            | 0   | 17    |
| <b>Total Acres:</b> |      |                            |     | 151   |

## 3. Treatment Description:

## a) Clearcut Justification:

Clearcuts will help achieve Desired Future Conditions outlined in the Clearwater Supervisory Area's Forest Asset Management Plan. Clearcuts are silviculturally and economically justified and comply with the Idaho Forest Practices Act. A clearcut prescription will be used to harvest the existing stand and re-establish desired seral species on the site. Natural regeneration will not accomplish this for the following reasons:

- 1) The remaining second growth stand consists of 54% grand fir, and 14% western redcedar. High species composition of grand fir and cedar combined with a lack of continuous seral species (white pine, western larch, and Douglas-fir) will not meet Desired Future Conditions for natural regeneration.
- 2) Natural regeneration is not feasible with the species composition currently on site. The majority of the dominant seral species have died, leaving non-desirable genetics. Due to this and the above stated factors, clearcutting is the most viable option for long term site production. Clearcutting and planting this stand will help maintain the Clearwater

Supervisory Area's harvest levels and long-term financial returns by quickly starting growth of the next stand.

b) Forest Improvement Activity:

After completion of the harvest, the units will be assessed for hazard reduction work. Once slash mitigation is satisfactory the units will be evaluated to determine the need to treat with herbicide, then planted with western larch, and Douglas-fir. The units will be monitored by the forest improvement forester after planting to determine the need for supplemental planting, chemical release spray, and possible gopher abatement.

c) Harvest Specifications:

| Method        | Acres | Volume MBF | Equipment Specification        | Distance (Ave) |
|---------------|-------|------------|--------------------------------|----------------|
| Ground Based  | 143   | 5,190      | Feller buncher, skidder/shovel | 600            |
| Cable Yarding | 8     | 255        | Excaliner                      | 200            |

**C. Hazard Management Plan:**

This plan will serve as a guide to reduce the slash hazard to levels as required by the Idaho Forest Practices Act Fire Hazard reduction laws. The Purchaser will grapple pile 2.29 miles of landing and right of way slash. The Clearwater-Potlatch Timber Protection Association will burn roadside landing piles within units 1-4.

**D. Erosion Control Plan:**

To minimize sedimentation into streams within the sale area, the following measures will be taken:

1. Erosion control measures shall be installed as operations progress, at the end of each logging season, prior to freeze-up when winter logging is anticipated, or as designated by the State (Forester-in-charge).
2. Hauling will not be allowed during adverse or saturated conditions unless the Purchaser at their expense installs erosion control measures specified by the State (Forester-in-charge).

**E. Forest Practices Act:**

No variances are anticipated for this sale.

#### IV. IMPACT STATEMENT

##### A. Aesthetics:

This sale runs adjacent to the Main Street gravel road which is seasonally travelled during the year by the public. Adjacent State-owned timber stands are well stocked and in different phases of regeneration. No long-term aesthetic impact is anticipated with this harvest entry.

##### B. Affected Interests:

There are no known affected interests from this sale.

##### C. Air Quality:

Burning associated with this sale may cause limited air quality impacts. Burning operations will be coordinated with the Montana-Idaho Airshed Group.

##### D. Cultural Resources:

There were no identified historical or cultural resources found within the sale area.

##### E. Leases:

This sale is located within the boundaries of the Silver Creek Grazing Allotment (G400004). The immediate activities of the sale should not affect normal grazing operations. Post harvest planting of the sale area may require the lessee to be notified of any grazing restrictions through annual preseason grazing meetings.

##### F. Roads and Traffic Patterns:

All sale access roads have or will have upon sale completion, guardrail gates. Increased traffic on the Main Street gravel roads will occur when there is active hauling. The purchaser shall utilize safety signs as needed.

##### G. Site Productivity:

There is no anticipated significant impact to long-term site productivity. Soil compaction will be minimized by restricting ground-based skidding to times when soil condition allows for minimum compaction.

##### H. Water Quality:

No significant impacts on water quality are anticipated with harvesting the proposed timber sale. The

terms and items listed within the contract documents, with adherence to the Idaho Forest Practices Act, were designed to help minimize any erosion problems.

**I. Wildlife and Fisheries:**

Idaho Fish and Game (IF&G), through annual notification, was provided with an opportunity to comment but did not respond.