

# Pre-Operations Report

**Operation Name: Evans Mountain**  
**County: Marion**  
**Management Basin: Scattered**

**Table 1. Operation Areas, Types and Acres**

Area	Harvest Type	Gross Acres	Net Acres
I	Modified Clearcut	71	64

## **I. PHYSICAL DESCRIPTION OF OPERATION AREA:**

The operation is located within a temperate climate area. Typically the fall and winter seasons are wet. This area receives approximately 70 to 95 inches of rainfall per year. The operation is located within the *Tsuga heterophylla* Zone (Natural Vegetation of Oregon and Washington, Franklin & Dyrness, 1973).

The sale is located on gentle and moderate slopes above Elkhorn below Evans Mountain just east of Evans Creek. The sale is underlain by sedimentary and igneous origin rocks, flows, Breccias, Tuffs and Lahar Deposits, mapped as “Undifferentiated tuffaceous sedimentary rock, tuffs and basalt.

The soil within the operation is classified as Nasty soils. Nasty soils are moderately deep, well-drained, moderately fine-textured skeletal soil. The 50 year site index for Douglas-fir and western hemlock is 100 feet. (Soil Survey of the Cascade Unit, Miller and Steinbrenner, 1980) The elevation of the operation ranges from 1,300 to 1,500 feet. The slopes within the operation range from 0 to 40%.

## **II. CURRENT STAND CONDITION:**

The three stands within the operation are 70 years old and are currently classified as Understory. These stands have not been managed. As a result, the trees have very small crowns and are putting on minimal growth each year. The overstory consists mainly of Douglas-fir. Vine maple, hazel, salal, ocean spray, huckleberry and ferns occupy the understory. There are approximately 4 snags per acre; minimal sound down wood; and approximately 1,000 cubic feet per acre of down wood in all decay classes. (SLI, 2002)

**Table 2. Stand Inventory Information**

Area	Prescription	Stand ID <sup>1</sup>	Species	Age	DBH	BA	TPA	SDI	Acres <sup>2</sup>
I	MC	12024	DF	70	14	191	171	50	27
	MC	12370	CXDF	70	14	135	117	35	10
	MC	12371	DF	70	14	168	160	45	34

<sup>1</sup>The source of stand inventory information is SLI from 2002.

<sup>2</sup>The acres are based on GIS and include roads, streams buffers, reserve areas, etc.

### III. DESIRED FUTURE CONDITION/VISION:

This operation is located in the Scattered Basin. This basin is a diverse mixture of ownership, stand ages, species mixtures, and site quality. As indicated by its name, the Scattered Basin is a conglomeration of scattered ODF ownership parcels that range in size from 40 acres to 1000 acres. The operation is located within a parcel which is approximately 80 acres in size. Most of the smaller parcels within the basin are viewed as land exchange candidates due to the intermingled nature of the ownership. The Evans Creek operation is a land exchange candidate.

The desired future condition for the stands within this operation is for non-complex stands. (*Cascade District Implementation Plan, 2003*) The lack of prior thinnings to the stand has resulted in the stand slowing in growth over the last 20 years. The residual stand most likely would not respond to the thinning due in part to severely reduced crowns. A modified clearcut will leave some of the structure as well as enhance the ability to make the stand productive.

The **Anticipated Pathway** begins with a:

- Modified clearcut leaving at least 9 green trees per acre.
- The unit will be replanted with mix of mostly Douglas-fir and some western red cedar upon completion of site preparation activities.
- In 10-12 years, the stand will be evaluated for a pre-commercial thinning.
- A first entry commercial thinning will take place at about 40 years of age.

**Table 3. Stand Structure Information**

Area	Stand ID	Current	Post Harvest <sup>1</sup>	Desired Future	Acres
	12024	UDS	REG	GEN	27
	12370	UDS	REG	GEN	10
	12371	UDS	REG	GEN	34

<sup>1</sup> The stand is expected to develop into this condition in the five to ten years after this operation is completed.

**IV. PROPOSED MANAGEMENT PRESCRIPTION:**

The primary objective of the proposed operation is to enhance stand volume production and value. An underproductive stand will be harvested and an intensively managed new stand will be established. Structural components important to habitat diversity will be maintained or developed.

At least 9 green trees per acre will be retained. The Northwest Oregon State Forests Management Plan calls for 5 green trees per acre left in regeneration harvest units. The 4 extra green trees per acre will be located to visually break up the harvest area - as seen from the Little North Fork Road - and are anticipated to, over time, supplement the snag and down wood in the sale area.

- Retain 8 green conifer trees and 1 green hardwood tree per acre. Reserve trees will be made up of all existing old growth trees, Douglas-fir and western hemlock larger than 20 inches in diameter, and red alder and bigleaf maple larger than 12 inches in diameter.
- The slash from the operation will be piled and burned to prepare the site for planting.
- The site will be replanted with Douglas-fir and western red cedar seedlings. Western hemlock is anticipated to seed in naturally.
- Down wood will be evaluated at sale layout. If additional down wood is needed to meet landscape targets, it will be added. This material is expected to come during the operation from cull material and top logs with oversized knots.

**V. ESTIMATED TIMBER AND REVENUE OUTPUTS:**

**Table 4. Timber and Revenue**

Ownership		Sale Type	
BOF	CSL	Cash	Recovery
100%	0%		X
Planned Quarter:		1	

	Conifer	Hardwood	Total
Net Volume (MBF)	1400	100	1,500
Stumpage Value (\$/MBF)	\$220	\$200	
Estimated Gross Value	\$308,000	\$20,000	\$328,000
		Project Costs:	10,500
		Estimated Net Value:	\$317,500

## **VI. HARVESTING AND ACCESS CONSIDERATIONS:**

Access to this sale will be via North Fork Road and Evans Mountain Road. These are currently all weather roads. A road easement for log haul will need to be obtained from the Bureau of Land Management for the Evans Mountain Road.

Approximately 0.34 miles of road will be constructed to facilitate logging. Also, there will be three landings constructed off the North Fork Road. The road and the three landings will be unsurfaced and vacated at the completion of logging.

New road construction is limited to ridgetops and gentle to moderate sideslopes.

All roads are paved with the exception of the new construction. Roads will provide access to all timber within the sale area and allow for logging methods and hauling, which will minimize impacts to soil, residual timber, streams and riparian areas.

Following harvest skid trails will be evaluated for closure.

Slash will be placed inroads and skid trails where needed to help prevent damage from unauthorized use.

Project work is estimated to be \$10,500.

This sale is 100% ground yarding.

**Table 5. Transportation Management Summary (Miles)**

Activity	Mainline	Collector	Rocked Spur	Dirt Spur
Construct				.34
Improve				
Maintain				.34
Block (Closed)				
Vacate				.34

## **VII. AQUATIC RESOURCES AND WATER QUALITY:**

There are three small non-fish bearing streams located within the operation. The habitat for fish is present in the stream that runs north of the Little North Fork Road and in the center of the harvest area, but two waterfalls below the Little North Fork Road block fish passage. All three streams flow into the Little North Fork of the Santiam River.

A permit with a priority date of 9/26/1947 was filed for a domestic water intake possibly located in the southwest corner of the sale area. During sale layout a search will be

done for the water intake and, if it is located within the sale area, the water intake will be protected during harvesting operations.

See Pages 6 and 7 of the AOP Summary (under Timber Harvest Operations) for the riparian area management guidelines to be utilized.

### **VIII. WILDLIFE AND T&E SPECIES CONSIDERATIONS:**

This operation was surveyed for Northern Spotted Owls during the 2006, 2007, and 2008 survey seasons. There was one response in 2006 from an owl that was considered a “floater”. There were no responses in 2007. In 2008 a pair of Northern Spotted Owls was detected northeast of the proposed sale area. The sale area is outside the home range of this newly detected pair.

The operation area was checked against District knowledge for any listed plant location. The operation area was also checked against the Oregon Natural Heritage Program’s database of known listed plant locations. No listed plant records were identified within the operation area.

### **IX. SLOPE STABILITY AND GEOTECHNICAL ISSUES:**

This assessment is based on analysis of USGS 1:24,000 topographic maps and available geologic maps. There are no high landslide hazard locations in the sale area. The sale area drains into the Little North Santiam River. The risk of landslides delivering to the Little North Santiam River from the sale area is low.

### **X. RECREATION RESOURCES:**

There are no developed recreation facilities inside the timber sale boundary. The county road that travels through the operation is the access road to the USFS Opal Creek Recreation Area. The access to this recreation site will remain open during the operation. It will be important for both the operators and visiting public to use caution on roadways. To deter illegal motorized off-road use, illegal fires and garbage dumping in this area, skid roads/spurs will be closed.

### **XI. CULTURAL RESOURCES:**

Pre-operation reconnaissance revealed no visible cultural resource features or artifacts. If discovery is made, the cultural resource will be protected and field staff will consult with the Cultural Resource Specialist in Salem.

## **XII. SCENIC RESOURCES:**

As mentioned in Section X, the access road to the USFS Opal Creek Recreation Area runs through this operation. In addition, a portion of the southeast corner of the sale area is within the Santiam State Scenic Waterway. A notification of intent to engage in a regulated activity and supplemental application for timber harvest has been filed with Oregon Parks and Recreation. Clumps of green trees will be placed in locations that will help break up the visual impacts of this modified clearcut. Also, the riparian area buffers on the streams will lessen the open appearance of the clearcut.

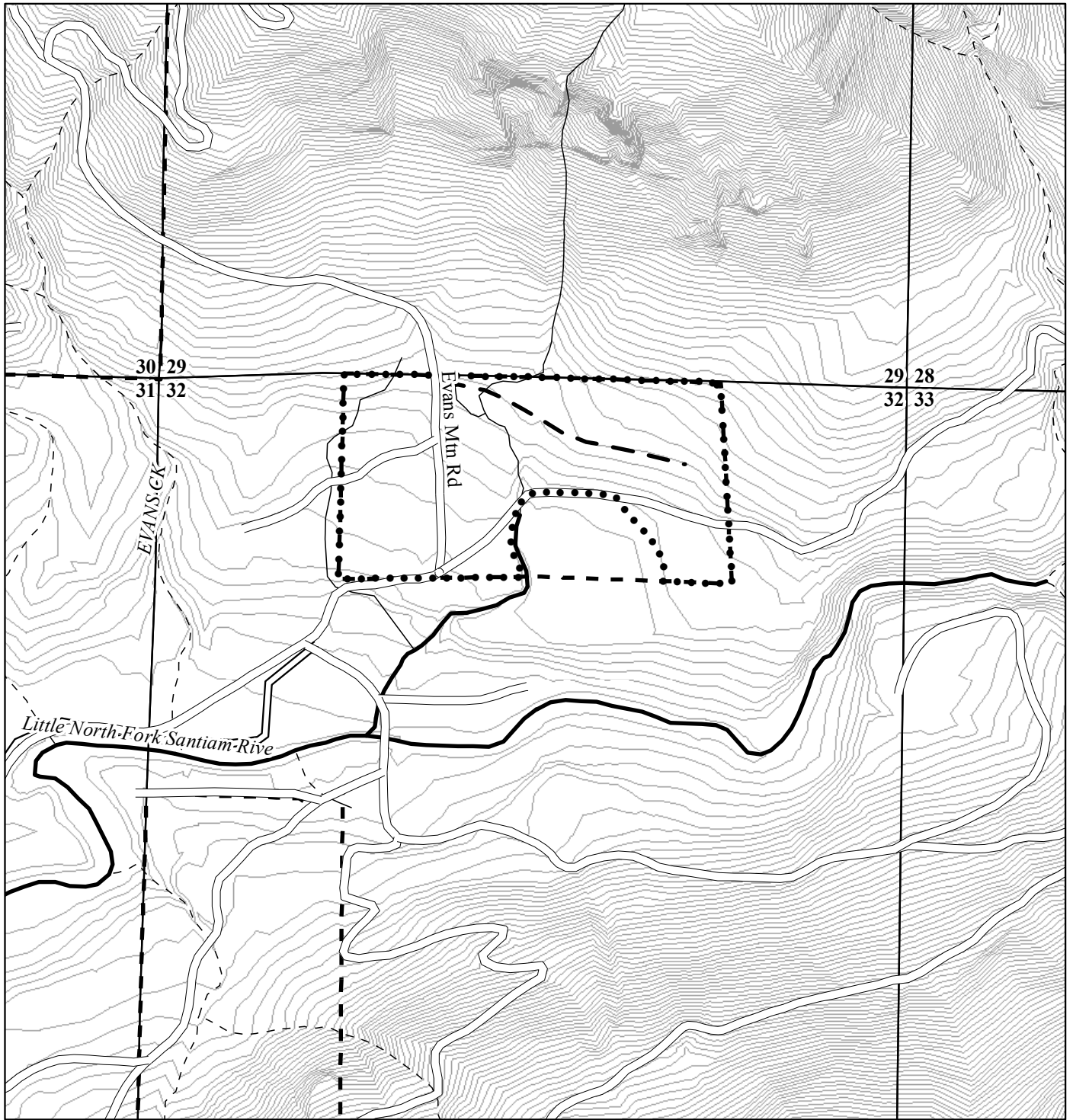
## **XIII. OTHER RESOURCE CONSIDERATIONS:**

To protect air quality, the pile burning will comply with the Oregon Smoke Management Plan. The Smoke Management Plan is designed to reduce emissions from prescribed burning in western Oregon and to minimize smoke intrusions into designated population areas.

Property lines on the east, west, and south will need to be posted and blazed (1.5 miles).

## **XIV. LAND MANAGEMENT CLASSIFICATION SUMMARY:**

The operation contains Focused Stewardship, Aquatic and Riparian Habitat for three small streams. See Section VII, Aquatic Resources and Water Quality, for more information.



**Legend**

- Sale Boundary
- - - Road Construction
- ==== Surfaced Road
- Unsurfaced
- Type F Stream
- Type N Stream
- ..... Unknown Stream
- - - Santiam State Forest
- 20 Foot Contour Lines

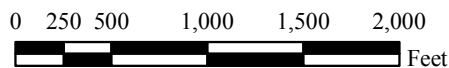
**EVANS MOUNTAIN**

FY 2010 AOP  
 NORTH CASCADE DISTRICT  
 ATTACHMENT A : TOPOGRAPHY

PORTIONS OF SECTION 32  
 T8S, R4E, W.M.  
 MARION COUNTY, OR

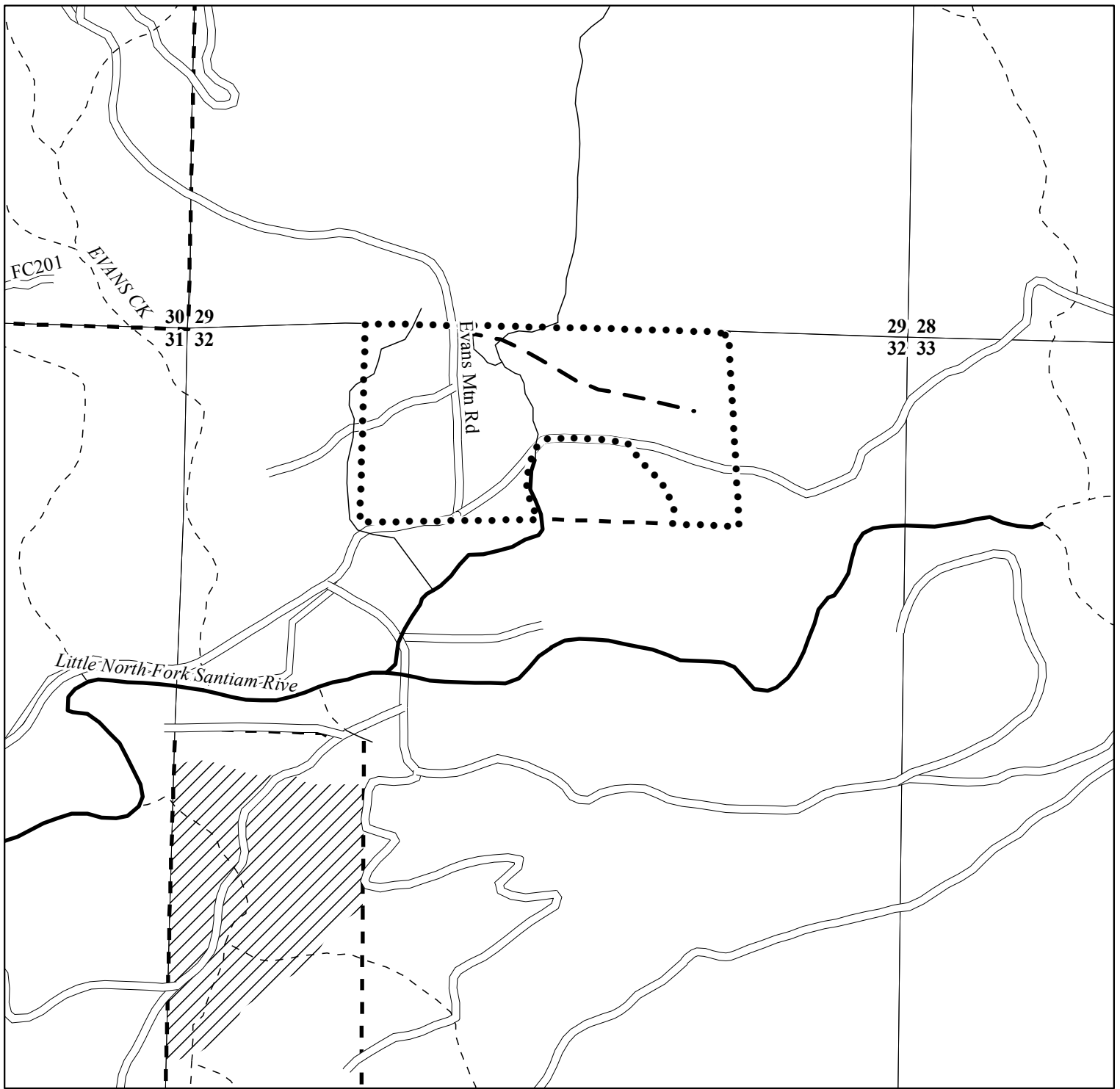
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 1:12,000

1 inch equals 1,000 feet



APPROXIMATE NET ACRES: 64 (MC)

This product is for informational use and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes.



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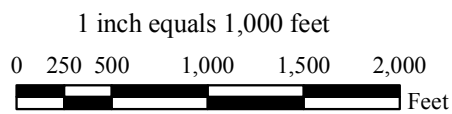
**EVANS MOUNTAIN**

FY 2010 AOP  
 NORTH CASCADE DISTRICT  
 ATTACHMENT B: DESIRED FUTURE CONDITION

PORTIONS OF SECTION 32  
 T8S, R4E, W.M.  
 MARION COUNTY, OR

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