

Groundwater Transfer Review Summary Form

Transfer/PA # T- 14731

GW Reviewer Grayson Fish Date Review Completed: 10/3/2025

Summary of Same Source Review:

☐ The proposed change in point of appropriation is not within the same aquifer as per OAR 690-380-2110(2).

Summary of Water Level Decline Condition Review:

☐ Water levels at the original point(s) of appropriation have exceeded the allowed decline threshold defined by conditions in the originating water right.

Summary of Injury Review:

☐ The proposed transfer will result in another, existing water right not receiving previously available water to which it is legally entitled or result in significant interference with a surface water source as per 690-380-0100(3).

Summary of GW-SW Transfer Similarity Review:

☐ The proposed SW-GW transfer doesn't meet the definition of "similarly" as per OAR 690-380-2130.

This is only a summary. Documentation is attached and should be read thoroughly to understand the basis for determinations.



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Ground Water Review Form:

- ☒ **Water Right Transfer**
☐ **Permit Amendment**
☐ **GR Modification**
☐ **Other**

Application: T-14731

Applicant Name: Dinsdale Farm & Equip, LLC

Proposed Changes: ☒ POA ☐ APOA ☐ SW→GW ☐ RA
☐ USE ☒ POU ☐ OTHER

Reviewer(s): Grayson Fish

Date of Review: 10/3/2025

Date Returned to WRSD: 10/3/2025

The information provided in the application is insufficient to evaluate whether the proposed transfer may be approved because:

- ☐ The water well reports provided with the application do not correspond to the water rights affected by the transfer.
- ☐ The application does not include water well reports or a description of the well construction details sufficient to establish the ground water body developed or proposed to be developed.
- ☐ Other _____

1. Basic description of the changes proposed in this transfer: The application states the purpose of the transfer as follows: "Proposing to move parts of water rights from C-92116, 83277, 53860 & 97917 to another existing pivot field with better conditions for farming."

LAKE 4271 (A2 Well) is the only TO POA listed on the transfer.

A summary of FROM POAs can be found below:

POA Name	Well Log ID	Certificate	Acres to transfer	Distance from TO POA
Shaub Ranch Well 1	LAKE 4105	97917	19.5	1.4 miles SW
B1	LAKE 837	83277	35.7	7.8 miles SE
Geldon Well	LAKE 389	53860	17.8	1.6 miles NNE
L8*	LAKE 4581	92116	5.7	3.1 miles E

In part 5 of the transfer application the provided authorized well log for certificate 92116 is LAKE 837, however LAKE 837 is not listed as an authorized POA for Certificate 92116 on WRIS. The transfer map provided by the applicant shows LAKE 4581 (L8) as the authorized FROM POA associated with Certificate 92116. This review will assume there is a scrivener's error on the application and the provided transfer map is correct.

Will the proposed POA develop the same aquifer (source) as the existing authorized POA?

☒ Yes ☐ No Comments: Groundwater in the Fort Rock Valley-Christmas Valley area (Fort Rock Classified Area) is identified as a single groundwater system. Groundwater is found in both a shallower predominantly basin-fill sediment unit and a deeper predominantly volcanic rocks and sediments unit below. The predominantly basin fill sediment unit and the predominantly volcanic rocks and sediment unit both readily yield groundwater, and the two units are hydraulically connected.

Miller (1986) describes the groundwater source as the main groundwater reservoir. That reservoir includes groundwater in different geologic units. The reservoir has three characteristics. First, the "natural" groundwater level changes less than 1.5 feet annually, indicating the system is highly modulated. Second, the 1980s potentiometric surface was approximately 4292 feet elevation amsl basin-wide with Silver Lake an exception. Third, the reservoir consists of numerous water producing zones in several formations, all having an essentially common potentiometric level, and all being very transmissive in general.

The authorized wells produce groundwater from water bearing zones within the predominantly basin-fill sediment and/or the underlying predominantly volcanic rocks and sediment unit of the main groundwater reservoir. The proposed well will also produce groundwater from water bearing zones within the main groundwater reservoir.

2. a) Is the existing authorized POA subject to a water level decline condition?

☐ Yes ☒ No Comments: None of the authorized POA are subject to a water level decline condition.

b) If yes, for each POA identify the reference level, most recent spring-high water level, and whether an applicable permit decline condition has been exceeded: N/A

3. a) Is there more than one source developed under the right (e.g., basalt and alluvium)?

☐ Yes ☒ No Comments: One source developed.

b) If yes, estimate the portion of the right supplied by each of the sources and describe any limitations that will need to be placed on the proposed change (rate, duty, etc.): N/A

4. a) Will this proposed change, at its maximum allowed rate of use, likely result in an increase in interference with **another ground water right**?

☒ Yes ☐ No Comments: Proposed TO POA LAKE 4271 will move pumping closer to existing well LAKE 406 on Groundwater Claim GR 1500. The reduced distance between LAKE 406 and the proposed POA LAKE 4271 is likely to result in an increase in interference when compared to what would be occurring due to pumping at the original POAs.

b) If yes, would this proposed change, at its maximum allowed rate of use, likely result in another groundwater right not receiving the water to which it is legally entitled?

☐ Yes ☒ No If yes, explain: The nearest authorized POA to Proposed POA LAKE 4271 is LAKE 406 under Groundwater Claim GR 1500 which is located ~2,250 feet to the northwest. The potential increase in drawdown was calculated using the Theis equation (see attachments). The values used for the calculation are conservative and appropriate until better values become available. The calculation used an intermediate storage coefficient (0.001). The transmissivity used in the calculation (15,000 ft²/day) is from Morgan (1988) and McFarland and Ryals (1991). At the maximum allowed pumping rate (0.98 cfs), the results indicate a drawdown of less than 3.5 feet, which would not meet the standard of "substantial or undue interference".

5. a) Will this proposed change, at its maximum allowed rate of use, likely result in an increase in interference with **another surface water source**?

☐ Yes ☒ No Comments: A majority of transferred pumping rate comes from authorized POAs Shaub Ranch Well #1 and B1. The proposed POA LAKE 4271 is further away from both Paulina Marsh and Silver Lake than authorized POAs Shaub Ranch Well #1 and B1. The changes proposed by this transfer are unlikely to result in an increase in interference with surface water sources due to most of the use moving further away from surface water sources.

b) If yes, at its maximum allowed rate of use, what is the expected change in degree of interference with any **surface water sources** resulting from the proposed change?

Stream: _____

☐ Minimal ☐ Significant

Stream: _____

☐ Minimal ☐ Significant

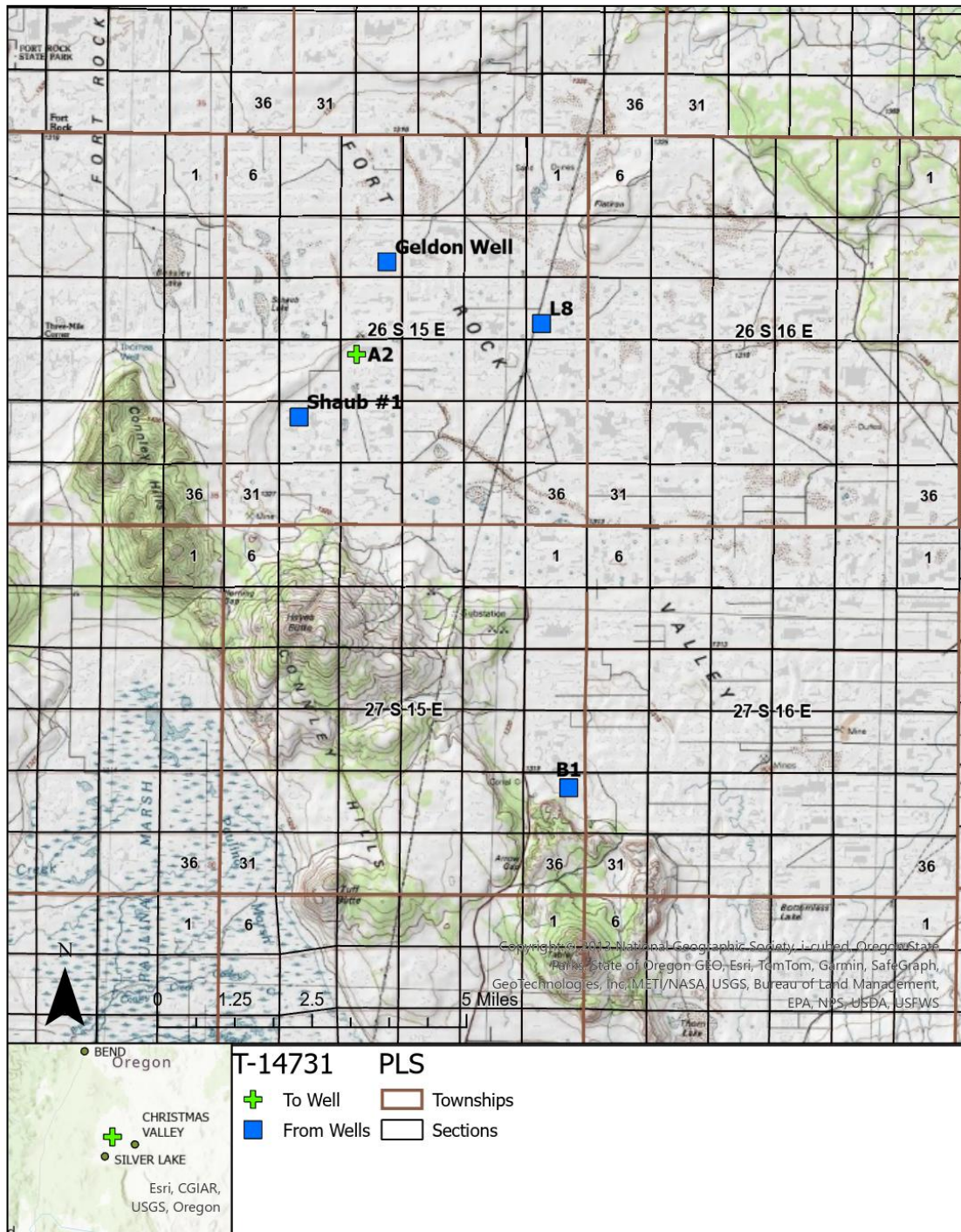
Provide context for minimal/significant impact: _____

6. For SW-GW transfers, will the proposed change in point of diversion affect the surface water source similarly (as per OAR 690-380-2130) to the authorized point of diversion specified in the water use subject to transfer?

☐ Yes ☐ No Comments: N/A

7. What conditions or other changes in the application are necessary to address any potential issues identified above: _____
8. Any additional comments: _____

T-14731



Theis Time-Drawdown Worksheet v.5.00

Calculates Theis nonequilibrium drawdown and recovery at any arbitrary radial distance, r , from a pumping well for 3 different T values and radial distance, r , from a pumping well for 3 different T values and 2 different S values.
 Written by Karl C. Wozniak September 1992. Last modified December 17, 2019

Input Data:	Var Name	Scenario 1	Scenario 2	Scenario 3	Units	
Total pumping time	t		245		d	
Radial distance from pumped well:	r		2250		ft	Q conversions
Pumping rate	Q		0.98		cfs	439.82 gpm
Hydraulic conductivity	K	150	150	150	ft/day	0.98 cfs
Aquifer thickness	b		100		ft	58.80 cfm
Storativity	S_1		0.001			84,672.00 cfd
	S_2		0.001			1.94 af/d
Transmissivity Conversions	T_ft2pd	15000	15000	15000	ft2/day	Recalculate
	T_ft2pm	10.416667	10.416667	10.416667	ft2/min	
	T_gpdpt	112200	112200	112200	gpd/ft	

Use the Recalculate button if recalculation is set to manual

