



Oregon

John A. Kitzhaber, M.D., Governor

Carrie

Water Resources Department

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INTEROFFICE MEMO

FORWARD TO:

Salem Transfer Section
FIELD PROCESSOR WORKING ON THIS TRANSFER

DATE: 4-27-06

FROM:

_____ WATERMASTER, DISTRICT # _____
X _____ GROUNDWATER SECTION

(SIGNATURE)

Michael Zwart
signed by injury reviewer

date signed 2/6/07

*Based on reviewed memo of Ivan Gall, 2/5/07

SUBJECT:

WATER RIGHT TRANSFER # 10134

A change in:

POU POD POA USE of water.

In the name(s) of

James Blatchford

In my opinion (assuming the right is valid), the proposed change

MAY BE MADE WITHOUT INJURY WOULD RESULT IN INJURY* to an existing water right.

*The approval of this transfer application would result in injury to other water rights because _____

The existing right may not be valid because _____

Headgate notices HAVE HAVE NOT Been issued for diversion from the source(s) which serve(s) this right.

If for change in point of diversion, is there any intervening point(s) for diversion between the authorized and proposed points of diversion? (Yes or No) _____

In my opinion, the order approving the subject transfer application should include the following in regard to the appropriator installing suitable measuring devices in the diversion works:

_____ (1) PRIOR to the diverting of water at the new point of diversion . . .

_____ (2) WHEN IN the judgement of the watermaster it becomes necessary . . .

The enclosed copy of the transfer application and map(s) is for your records.

Memorandum

To: Transfer File T-10134 Blatchford

From: Ivan Gall - Hydrogeologist

Date: 02/5/2007

Re: Groundwater Review of Transfer T-10134

The applicant is proposing to transfer the place of use from two supplemental groundwater irrigation rights (Certificates 42361 and 46115), and to add an additional POA for both of these supplemental rights. The proposed additional POA is a new drilled well. The rate for each supplemental right is 1/80th and the total duty per acre is 3 acre-feet. The use is for irrigation in the Powder River Basin.

The applicant had applied for a new supplemental groundwater right for these lands (application G-16565). This application is proposed to be denied as you can't get a supplemental application from the same source. Kerry Kavanagh is the caseworker.

The approved POA for Certificate 42361 is a gravel pit located at 08S/39E-17 NWSE, 20 feet south and 1,680 feet west from the east ¼ corner of Section 17. The proposed new POA location (a new drilled well not yet drilled) is 08S/39E-16 SWNW, 350 feet west and 65 feet north from the east ¼ corner of Section 17.

It appears that the applicant also wants this proposed new well to be an additional POA for the supplemental irrigation on Certificate 46115. Well BAKE 370 is the approved POA under Certificate 46115, located 1200' north and 50' east from the east ¼ corner of section 17. It appears that this well was recently deepened from 500 to 800 feet (see log BAKE 51532). The rate for both certificates is limited to 1/80th per acre with a total duty of 3 acre-feet.

Regionally, the aquifer is unconfined, but locally some water-bearing zones may be semi-confined to confined if present below, or encased within, significant low-permeability beds. The degree of aquifer confinement likely increases with depth, given the amount of fine-grained material in the alluvial sediments. Area well logs report clay layers between 30-40 feet in thickness. These clay layers are not correlated easily from well to well, so it is difficult to determine if potential confining units are thick enough or extensive/continuous enough to be significant. Limited water level data for the area do not show declines in recent years.

Given the proximity of the approved POA (the quarry) and the new proposed POA, and the lack of data showing discrete, confined water-bearing zones in the alluvial aquifer in this area, the source of groundwater for the approved and proposed POAs is likely the same.

No injury is likely to result from approval of this transfer.