

TO: Water Rights Section \_\_\_\_\_, 1991

FROM: Groundwater/Hydrology Section meyer  
Reviewer's Name

SUBJECT: Application G- 12591  
\* K. Lite 7/21/14

PER THE Deschutes Basin rules, one or more of the proposed POA's is within \_\_\_\_\_ mile of a surface water source and taps a groundwater source hydraulically connected to the surface water.

BASED UPON OAR 690-09 currently in effect, I have determined that the proposed groundwater use

- a. \_\_\_ will, or } have the potential for substantial interference with the nearest surface water
- b.  will not } source, namely Snow Creek; or
- c. \_\_\_ will, if properly conditioned, adequately protect the surface water from interference:
  - i. \_\_\_ The permit should contain condition #(s) \_\_\_\_\_;
  - ii. \_\_\_ The permit should contain special condition(s) as indicated in "Remarks" below;
  - iii. \_\_\_ The permit should be conditioned as indicated in item 4 below; or
- d. \_\_\_ will, with well reconstruction, adequately protect the surface water from substantial interference.

BASED UPON available data, I have determined that groundwater for the proposed use

- a. \_\_\_ will, or }
- b. \_\_\_ will not } likely be available in the amounts requested without injury to prior rights; or
- c. \_\_\_ can, if properly conditioned, avoid injury to existing rights or to the groundwater resource;
  - i. \_\_\_ The permit should contain condition #(s) \_\_\_\_\_;
  - ii. \_\_\_ The permit should contain special condition(s) as indicated in "Remarks" below;
  - iii. \_\_\_ The permit should be conditioned as indicated in item 4 below.

6-12591

- a. \_\_\_ THE PERMIT should allow groundwater production from no deeper than \_\_\_\_\_ ft. below land surface;
- b. \_\_\_ The permit should allow groundwater production from no shallower than \_\_\_\_\_ ft. below land surface;
- c. \_\_\_ The permit should allow groundwater production only from the \_\_\_\_\_ groundwater reservoir between approximately \_\_\_\_\_ ft. and \_\_\_\_\_ ft. below land surface;
- d. \_\_\_ Well reconstruction is necessary to accomplish one or more of the above conditions.
- e. \_\_\_ One or more POA's commingle 2 or more sources of water. The applicant must select one source of water per POA and specify the proportion of water to be produced from each source.

REMARKS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

STATE OF OREGON  
WATER RESOURCES DEPARTMENT

INTEROFFICE MEMO

TO: FILE G-12591  
FROM: SARAH C MEYER  
SUBJECT: SURFACE/GROUND WATER CONSIDERATIONS

DATE: 9/9 -91

The applicant seeks 1500 gpm from a well for municipal use in the Squaw Creek Basin.  
Per Division 9

FACTS

The well locations and aquifer display the following:

- 1) The well is located one mile from Squaw Creek near Sisters
- 2) The well is 320 ' deep and develops water from \_\_\_\_\_ layers. The well log is in the file. DTW = ~~110~~ '110'
- 3) The static water level for the well from the log was \_\_\_\_\_ feet on \_\_\_\_\_
- 4) The approximate elevation at the well is 3207 ' feet.
- 5) The nearby stream reach elevation is about 3190 ' feet. } 17'
- 6) Deschutes Basin Report describes groundwater conditions in the area of the application.
- 7) A pump test on the well produced \_\_\_\_\_ gpm with \_\_\_\_\_ feet of drawdown after \_\_\_\_\_ hours.

3207  
110  
3097

CONCLUSIONS

- 1) The head at the well is about \_\_\_\_\_, indicating a lower standing than the nearby stream reach.
- 2) The well develops water from Deschutes Formation
- 3) Based on requested rate, heads, distances, general geologic environment and logged materials, I conclude that the alluvial aquifer is unconfined, hydraulically connected to the above mentioned river and \_\_\_\_\_ the potential to cause substantial interference.

Drank Letter Enclosed

Waterwatch (Deschutes) + trib.

looking at surrounding well logs

not drilled yet. 2 1/2 to 3 organic soil

med dense to very dense sand + gravel (no water) gravel thought to be at 60-90' depth

Faulting in area has reduced aquifers.