

**Water Right Conditions
Tracking Slip**

Groundwater/Hydrology Section

FILE ## G-13616

ROUTED TO: Water Rights

TOWNSHIP/

RANGE-SECTION: 15S/14E-36

CONDITIONS ATTACHED? yes no

REMARKS OR FURTHER INSTRUCTIONS:

Permit should include GW
conditions 7A, 7B, and 7J

Reviewer: K. Lite

TO: Water Rights Section January 16, 1996
 FROM: Groundwater/Hydrology Section K. Lite
 SUBJECT: Application G- 13616 Reviewer's Name

GROUNDWATER/SURFACE WATER CONSIDERATIONS

1. PER THE Basin rules, one or more of the proposed POA's is/is not within feet/mile of a surface water source () and taps a groundwater source hydraulically connected to the surface water.

2. 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
 - b. will not surface water source, namely Crooked River; 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 from substantial interference.

GROUNDWATER AVAILABILITY CONSIDERATIONS

3. BASED UPON available data, I have determined that groundwater for the proposed use
 - a. will, or likely be available in the amounts requested without injury to prior rights
 - b. will not and/or within the capacity of the resource; or
 - c. will if properly conditioned, avoid injury to existing rights or to the groundwater resource:
 - i. The permit should contain condition #(s) 7A, 7B;
 - 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

4.
 - 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: _____

(Well Construction Considerations on Reverse Side)

13616

WELL CONSTRUCTION (If more than one well doesn't meet standards, attach an additional sheet.)

5. THE WELL which is the point of appropriation for this application does not meet current well construction standards based upon:
- a. ___ review of the well log;
 - b. ___ field inspection by _____;
 - c. ___ report of CWRE _____;
 - d. ___ other: (specify) _____
6. THE WELL construction deficiency:
- a. ___ constitutes a health threat under Division 200 rules;
 - b. ___ commingles water from more than one groundwater reservoir;
 - c. ___ permits the loss of artesian head;
 - d. ___ permits the de-watering of one or more groundwater reservoirs;
 - e. ___ other: (specify) _____
7. THE WELL construction deficiency is described as follows: _____
8. THE WELL
- a. ___ was, or constructed according to the standards in effect at the time of
 - b. ___ was not original construction or most recent modification.
 - c. ___ I don't know if it met standards at the time of construction.

RECOMMENDATION:

- A. ___ I recommend including the following condition in the permit:
"No water may be appropriated under terms of this permit until the well(s) has been repaired to conform to current well construction standards and proof of such repair is filed with the Enforcement Section of the Water Resources Department."
- B. ___ I recommend withholding issuance of the permit until evidence of well reconstruction is filed with the Enforcement Section of the Water Resources Department.
- C. ___ REFER this review to Enforcement Section for concurrence.

THIS SECTION TO BE COMPLETED BY ENFORCEMENT PERSONNEL

I concur in G/H's recommendation A or B above relating to conditioning or withholding the permit
_____, 199__.

(Signature)

I do not concur in G/H's recommendation A or B above relating to conditioning or withholding the permit for the following reasons: _____

_____, 199__.

(Signature)

WATER RESOURCES DEPARTMENT MEMORANDUM

TO: Groundwater/Hydrology Files

Date 1/16/96

FROM: Ken Lite

SUBJECT: Groundwater Application G- 13616

Applicant(s) seek 240 gpm (cfs) from 2 wells in the Deschutes basin
Crooked River sub basin
 sub basin.

Pertinent 7 1/2 - minute quads Powell Buttes

Well 1 WRD# Croo 1855 T 155 R 14E S 36 Q 0dad County Crook
 Legal Description 1600' north and 695' west of SE corner of Section 36
 Well is 5 1/2 - 6 miles ft from Crooked River (river/stream)
 Well is ~~5.5~~ ft from (river/stream)
 Well elevation ~3530 ft. River/stream elevation NA ft.
 Well elevation - river/stream elevation NA
 Well depth 650 SWL 410 on 12-30-78
 Sealed to 90 Depth first water found 422
 Cased to 396 Perforations/screens
 Lined to Perforations/screens
 Well tests and types bailer 10gpm w/o' dd after 1hr ; Air 50gpm
 Confined or unconfined? unconfined? Direct hydraulic connection? NO
 Potential to cause substantial interference? NO

Well 2 WRD# Croo 1854 T 155 R 14E S 36 Q 0dad County Crook
 Legal Description 1585' north and 715' west of SE corner of Section 36
 Well is 5 1/2 - 6 miles ft from Crooked River (river/stream)
 Well is ft from (river/stream)
 Well elevation ~3536 ft. River/stream elevation NA ft.
 Well elevation - river/stream elevation NA
 Well depth 700 SWL 410 on 1-23-89
 Sealed to 380 Depth first water found 480
 Cased to 398 Perforations/screens
 Lined to Perforations/screens
 Well tests and types Air 100gpm
 Confined or unconfined? unconfined? Direct hydraulic connection? NO
 Potential to cause substantial interference? NO

Conditioned water rights in area: no

Other nearby water rights of record: G-10290, G-8625

Density of nearby wells: numerous rural residential within ~1 mile

Comments: Wells are constructed into water-bearing zones within the John Day Formation on Powell Buttes. Groundwater flow is towards the northeast. Groundwater occurs within fractures in rhyolite and dacite flows. Yields are relatively low. Interference with other wells in the area is possible. Recommend conditions 7A, 7B, and 7J.

References used: Groundwater Report # 32; well reports # Croo 1854; Croo 1855;