

TO: Water Rights Section

April 1, 1996

FROM: Groundwater/Hydrology Section K. Lite  
Reviewer's Name

SUBJECT: Application G- 13763

**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       ; or
  - c.  will if properly conditioned, adequately protect the surface water from interference:
    - i.  The permit should contain condition #(s) 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
  - 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) 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 100 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: Note special condition  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(Well Construction Considerations on Reverse Side)

13763

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**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

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WATER RESOURCES DEPARTMENT MEMORANDUM

TO: Groundwater/Hydrology Files

Date 4-1-96

FROM: Ken Lite

SUBJECT: Groundwater Application G-13763

Applicant(s) seek 445.5 gpm ( ) cfs from 1 wells in the Deschutes basin Squaw Creek sub basin.

Pertinent 7 1/2 - minute quads Sisters Desc 51890 Dpn -> Desc 51891

Well 1 WRD# not yet drilled 77700035 T 14S R 10E S 27 Q0 dbb County Deschutes

Legal Description 500' south and 400' east of the center 1/4 corner of section 27

Well is ~3250 ft from Squaw Creek (river/stream)

Well is ft from (river/stream)

Well elevation ~3670 ft River/stream elevation ~2980 ft.

Well elevation - river/stream elevation 90'

Well depth SWL on

Sealed to NA Depth first water found NA

Cased to Perforations/screens NA

Lined to Perforations/screens

Well tests and types

Confined or unconfined? unconfined Direct hydraulic connection? yes

Potential to cause substantial interference? yes, if not conditioned

Well WRD# T R S Q0 County

Legal Description

Well is ft from (river/stream)

Well is ft from (river/stream)

Well elevation ft River/stream elevation ft.

Well elevation - river/stream elevation

Well depth SWL on

Sealed to Depth first water found

Cased to Perforations/screens

Lined to Perforations/screens

Well tests and types

Confined or unconfined? Direct hydraulic connection?

Potential to cause substantial interference?

Conditioned water rights in area: G-13060, G-12447, G-13477

Other nearby water rights of record: G-13239, G-11819

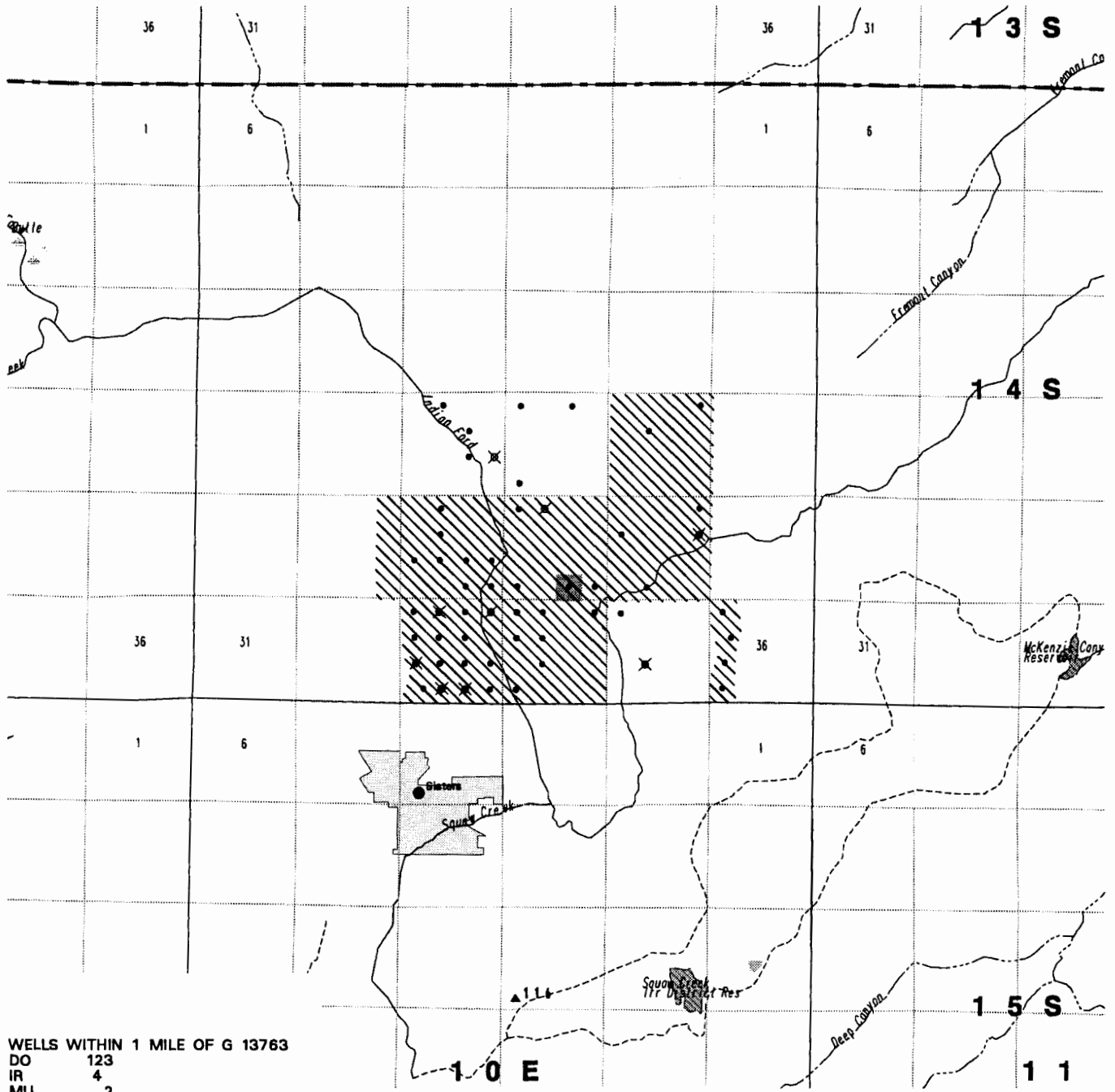
Density of nearby wells: Rural residential, some group domestic, irrigation

Comments Well will be constructed into water bearing zones within the Deschutes Fm. Groundwater flow is towards the northeast. Numerous springs that are tributary to Squaw Creek are ~1500-2500' from proposed well location. The potential exists to interfere w/ spring flow if water is taken above ~100' depth. Recommend condition 7B, 7T, and special condition that water not be taken above 100' depth.

References used: USGS/WRD data; unpublished Geologic map (Taylor); - Squaw Creek Streamflow measurements (OWRD, 1994); Topo map.

# Wells in the vicinity of application G 13763

- Application well(s) in this 1/4-1/4 section
- ◻ Well(s) identified in this section from OWRD's well log database within 1 mi. radius of application well(s)
- Well(s) identified in this 1/4-1/4 section from OWRD's well log database within 1 mi. radius of application well(s)
- ✕ Permitted well(s) in this 1/4-1/4 section within 1 mi. radius of application well(s)
- ▲ OWRD Observation well and well-id within 5 mi. radius of application well(s)



WELLS WITHIN 1 MILE OF G 13763

DO	123
IR	4
MU	2
UN	1