

TO: Water Rights Section

11/22, 1996

FROM: Groundwater/Hydrology Section Gates

Reviewer's Name

SUBJECT: Application G- 14403

GROUNDWATER/SURFACE WATER CONSIDERATIONS

- 1. PER THE Daschle 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 Squaw 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 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) 1B, 7J;
 - 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: _____

(Well Construction Considerations on Reverse Side)

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)

STATE OF OREGON
WATER RESOURCES DEPARTMENT

INTEROFFICE MEMO

TO: FILE G-14403
FROM: SARAH M. GATES
SUBJECT: SURFACE/GROUND WATER CONSIDERATIONS

DATE: 11/22/96

The applicant seeks 46.5 gpm from a well for irrigation

Township 15 S Range 10 E Section 11 County Deschutes

Per Division 9

The well is located 1300 from Squaw Creek
Elevation of well 3150 river 3075 difference 75'

LOG # _____
Depth of well 240 8" dia. Applicant Mike + Laura Neary
Casing to 18 R.O. Box 1377
Lined to 240 Sisters, OR 97759
Sealed to _____ 541-549-9354
SWL 189 on 6/26/87
Depth water first found 189

Perforations/screens 200-240 units Broken basalt, clay & cinders
units
units
units

Well Tests (P/A/B/FA) 40 gpm / @ .235 / 1 hr

Information sources Well log; Henkle + Sisters Quads
Observation wells? _____

Conceptual model Well develops water from fractured basalt
and underlying clay and cinders. Groundwater
flow direction is to the NE. Water intercepts creek
@ 11400 feet downriver @ ~ 2950' elevation.
Substantial interference @ this distance
is probably slight.

Confined, semi-confined, or unconfined?

DIRECT hydraulic connection?

Potential to cause substantial interference?

Objections? No

YES NO
YES NO

CONDITIONS: Recommend conditions 7B, 7J and
the requirement that no shallow
gw should be used in this
permit.

6-12919

17000014
17009187
17002929
17003056

County: Deschutes

Quad name & #: _____

REVIEW CHECKLIST

FOR G-14403

- Appropriate parts of the stream index
- Estimated number of wells within a one-mile radius & identified types.
- State Observation wells within a five-mile radius.
- Verify that well log is in file. If not provide one.
- List groundwater permits within a five-mile radius with extraordinary conditions.

Number of wells: _____

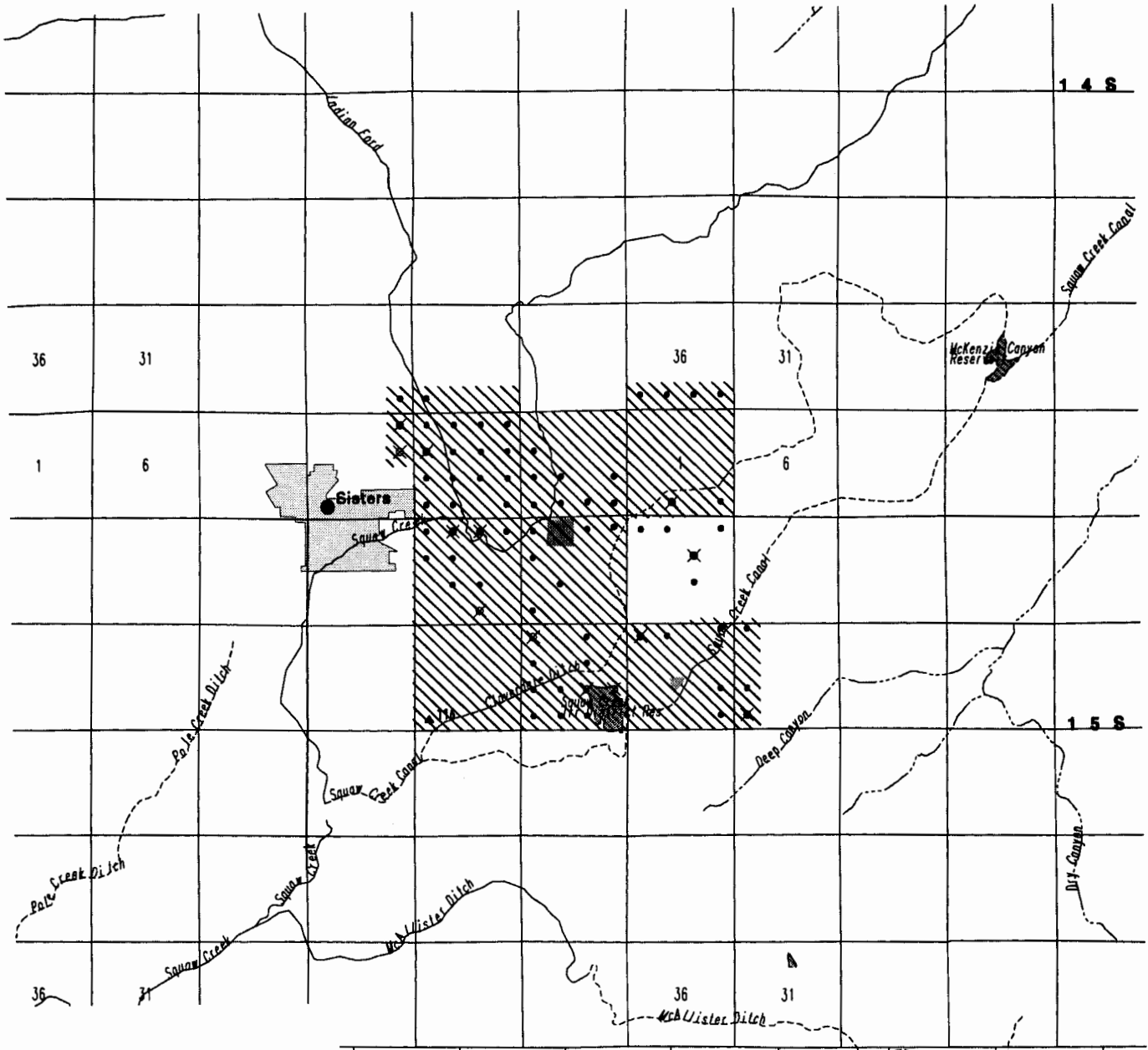
Well location: 15S/10E/11

APPLICATIONS WITH PERMIT CONDITIONS:

G-13477	G-12420	G-13262
G-12875	G-12421	G-13434
G-12517	G-12387	G-13098
G-13142	G-12419	G-
G-13239	G-12420	
G-13060	G-12421	
G-12387	G-12919	
G-12419	G-13256	
	G-12875	
	G-13209	

Wells in the vicinity of application G 14403

- 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)
- Critical GW Area
- - - Regulated GW Area



WELLS WITHIN 1 MILE OF G 14403
 DO 149
 ID 1
 IR 7
 MU 1

1 0 E		1 1 E	
1	6	1	6
1 4 S		1 5 S	