

TO: Water Rights Section Nov. 7 1996
FROM: Groundwater/Hydrology Section Michael Zwart
SUBJECT: Application G-14374 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 _____; or
 - c. will if properly conditioned, adequately protect the surface water from interference:
 - i. The permit should contain condition #(s) AJ;
 - 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) ZB;
 - 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)

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

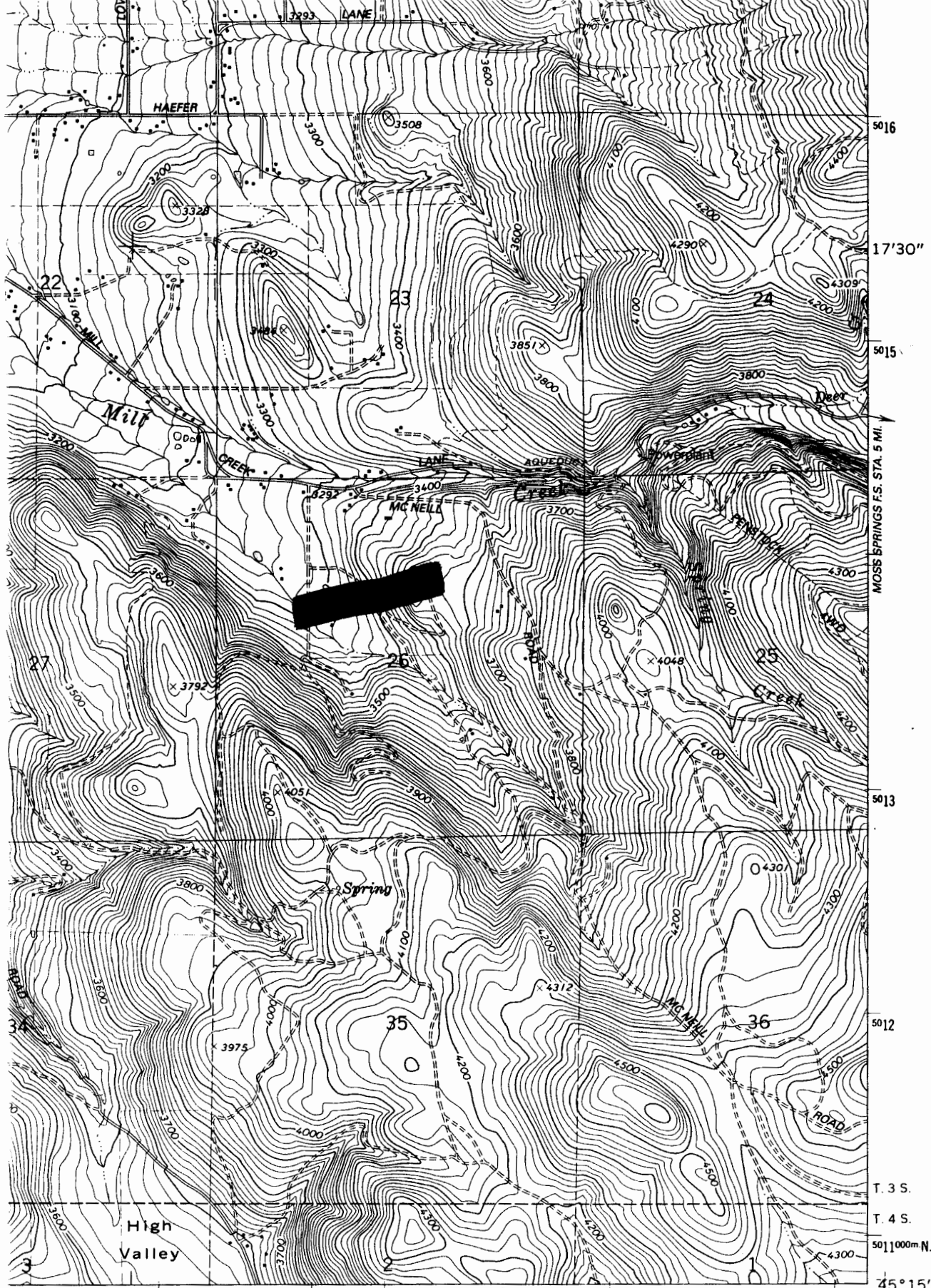
Date: November 7, 1996

From: MICHAEL ZWART

Subject: APPLICATION G-14374, KENNETH D. AND JEANETTE S. KNOTT

This application proposes to use 214 gpm of groundwater from one proposed well for primary and supplemental irrigation of 36.95 acres. The well is constructed to a depth of 810 feet. The well penetrates a confined aquifer developed in basalt of the Columbia River Basalt Group. The targeted water-bearing zone is below a depth of 320 feet. The well is about feet from Millard Branch. The aquifer is not likely in hydraulic connection with the nearby reach of the creek. There is no potential for substantial interference with the creek, based on the nature of the aquifer penetrated.

Permit conditions 7B and 7J are recommended.



● INTERIOR-GEOLOGICAL SURVEY, RESTON, VIRGINIA-1993

1 MILE
7000 FEET
LOMETER

ROAD CLASSIFICATION

Medium-duty _____ Light-duty _____
Unimproved dirt = = = = =

State Route

(LITTLE CATHERINE
CREEK)
2-7-74 11NW



County: Union
Quad name & #: Cove 54

REVIEW CHECKLIST

FOR G-14374

- 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.

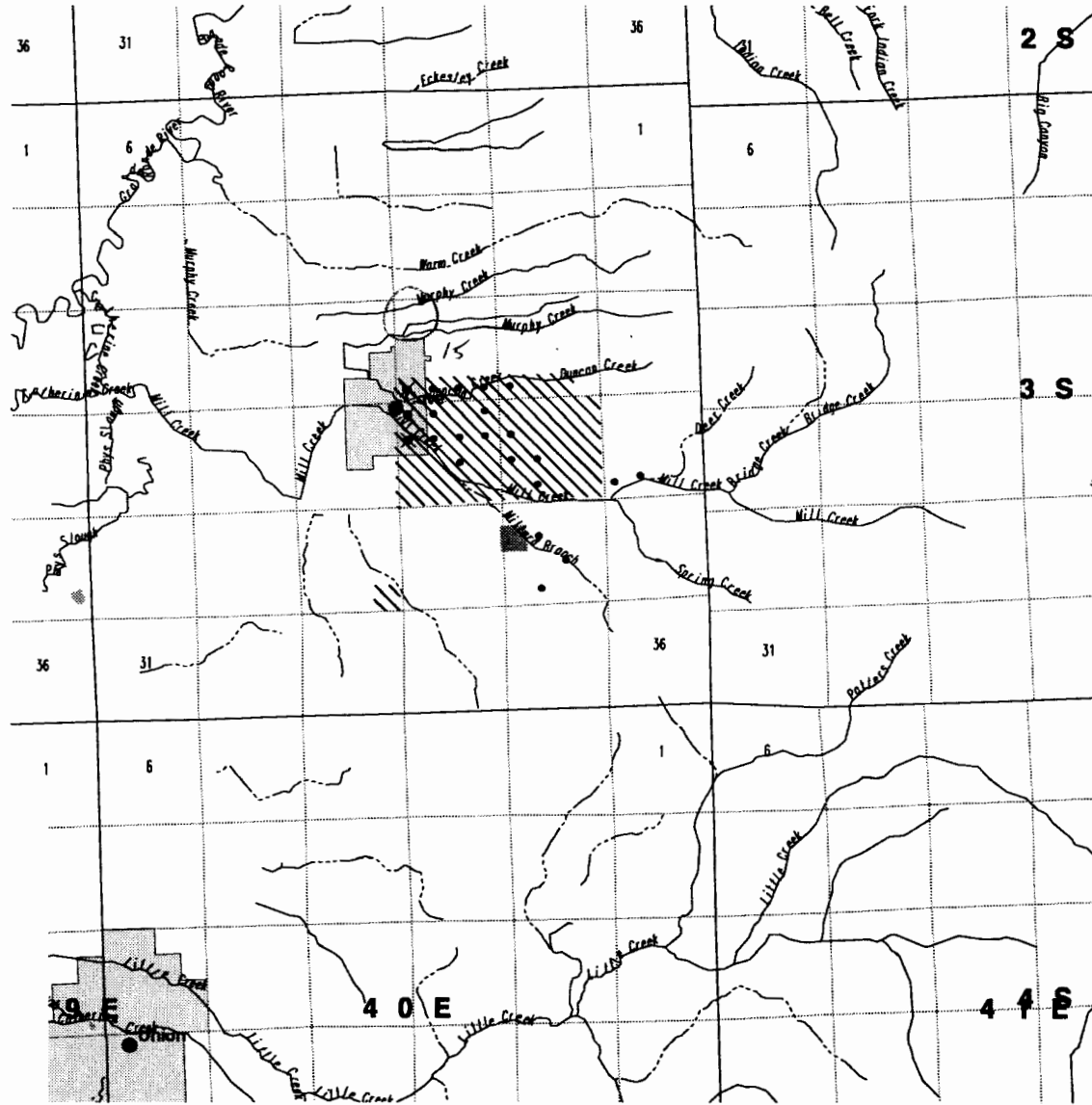
Number of wells: 1 Well location: 35/40E/26BC

APPLICATIONS WITH PERMIT CONDITIONS:

none found

Wells in the vicinity of application G 14374

- 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 14374

DO	39
IM	1
IR	1
MU	1

PERMITTED WELLS WITHIN 1 MILE OF APPLICATION G 14374

PERMIT	T/R/S/QQ	USE	RATE	UNITS
G 1098	3.00S40.00E15SWSW	IR	0.0200	C
G 1536	3.00S40.00E22NWNW	DO	0.0100	C
G 1536	3.00S40.00E22NWNW	IR	0.0300	C
G 1789	3.00S40.00E22NWNW	IR	0.0500	C
G 9580	3.00S40.00E22SWNW	MU	1.1100	C