

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

REPORT OF EXAMINATION

TO APPROPRIATE PUBLIC WATERS OF THE STATE OF WASHINGTON

Surface Water

(Issued in accordance with the provisions of Chapter 117, Laws of Washington for 1917, and amendments thereto, and the rules and regulations of the Department of Ecology.)

Ground Water

(Issued in accordance with the provisions of Chapter 263, Laws of Washington for 1945, and amendments thereto, and the rules and regulations of the Department of Ecology.)

PRIORITY DATE April 30, 1993	APPLICATION NUMBER G2-28830	PERMIT NUMBER	CERTIFICATE NUMBER
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NAME

Greg and Kendra Pelland/Pleasant Acres

ADDRESS (STREET)

16516 119th Avenue Court East Puyallup

(CITY)

(STATE)

Washington

(ZIP CODE)

98374-9999

PUBLIC WATERS TO BE APPROPRIATED

SOURCE

A well

TRIBUTARY OF (IF SURFACE WATERS)

MAXIMUM CUBIC FEET PER SECOND

MAXIMUM GALLONS PER MINUTE

MAXIMUM ACRE-FEET PER YEAR

40

4

QUANTITY, TYPE OF USE, PERIOD OF USE

4 acre-feet per year

Multiple domestic supply

Year-round, as needed

LOCATION OF DIVERSION/WITHDRAWAL

APPROXIMATE LOCATION OF DIVERSION-WITHDRAWAL

900 feet north and 550 feet west of the center of Section 30.

LOCATED WITHIN (SMALLEST LEGAL SUBDIVISION)

SE $\frac{1}{4}$ NW $\frac{1}{4}$

SECTION

30

TOWNSHIP N.

17

RANGE, (E. OR W.) W.M.

3E

W.R.I.A.

11

COUNTY

Pierce

RECORDED PLATTED PROPERTY

LOT

7

BLOCK

OF (GIVE NAME OF PLAT OR ADDITION)

Pleasant Acres

LEGAL DESCRIPTION OF PROPERTY ON WHICH WATER IS TO BE USED

That portion of the west 433 feet of the east 823 feet of the southeast quarter of the northwest quarter of Section 30, T. 17 N., R. 3 E.W.M. Lying north of Allen Road, Pierce County, Washington.

DESCRIPTION OF PROPOSED WORKS

A well 6" x 110' deep.

DEVELOPMENT SCHEDULE

BEGIN PROJECT BY THIS DATE:

January 1, 1995

COMPLETE PROJECT BY THIS DATE:

January 1, 1996

WATER PUT TO FULL USE BY THIS DATE:

January 1, 1997

REPORT

BACKGROUND:

On April 30, 1993 Greg and Kendra Pelland filed an application to appropriate public ground water from a well. A withdrawal rate of 40 gallons per minute (gpm), was requested for multiple domestic supply of 9 homes. The application number is G2-28830.

A legal notice of the proposed appropriation was published in *The South Pierce County Dispatch* on September 23 and 30, 1993. No protests to this appropriation were received.

I recommend issuance of a permit, based on the provisions of Chapters 90.03 and 90.44 Revised Code of Washington (RCW), and the following information.

INVESTIGATIONS:

In consideration of this application, Don Davidson and I conducted a field inspection on December 29, 1993. Other investigations included a review of recorded water rights, well logs and information submitted by the applicant.

Site Description and System Design

The project site is located approximately four miles east of McKenna on Allen Road, in southwest Pierce County, Washington. The surrounding area is mostly rural, with single family residences, and small multiple domestic subdivisions. Residential development is increasing throughout the area. The surrounding undeveloped areas are either forested or utilized as pasture.

The intent of this application is to secure water rights to serve a nine home development. The applicants plan to construct a 6-inch well to supply domestic water to the proposed Pleasant Acres plat. Water will be distributed via an approved Class B water system, equipped with a 3 horsepower submersible pump.

At the time of our visit the well had not been constructed. The project site is currently in pasture, with lot boundaries marked by stakes and flagging tape.

DISCUSSION:

Department of Ecology records indicate that while no ground water rights has been issued within a half mile of the subject well, over 25 well logs are on file for the surrounding area. Area wells range in depth from 50 to 123 feet. The wells located nearest to the project site are less than 100 feet deep.

The predominant material in the vicinity of the project area, as identified by U.S.G.S. *Water Supply Bulletin No. 22, Ground Water Occurrence and Stratigraphy of Unconsolidated Deposits, Central Pierce County, Washington, 1966*, appears to be till from the Vashon Drift. This material characteristically consists of compact unstratified clay, sand, and gravel.

There have been no reports of limited water availability in this region of the county. I do not anticipate potential conflict occurring from the issuance of a permit.

Conservation and Impacts to the Nisqually River Basin:

Under the provisions of Chapter 173-511 Washington Administrative Code, instream flows have been established for waters within the Nisqually River basin. The Department of Ecology is concerned about withdrawals from all wells within the river basin because of the future cumulative impacts on the river system due to numerous small withdrawals.

Report Continued

While it is unlikely that this ground water withdrawal will have a direct adverse impact upon the surface water system, Ecology stresses the role of conservation, and recommends that an active conservation and mitigation strategy be formulated and implemented. The following elements are recommended for inclusion in the conservation plan:

- Directing runoff from roofs, roads, and other impervious surfaces to an on-site storm water detention pond(s) or other similar structure(s) to enhance ground water recharge.
- Installation of water-efficient fixtures in the homes
- Providing residents with water conservation information
- Setting a utility rate structure which provides incentives for water conservation
- Promoting low water demand landscaping.

Water Requirements

The water requirements for a 9 home development should not exceed 450 gallons per day per residence, 4 acre-feet per year.

CONCLUSIONS:

In accordance with Chapters 90.03 and 90.44 RCW, I find there is water available for appropriation from the source in question, that the appropriation is for a beneficial use, and will not impair existing rights or be detrimental to the public welfare.

RECOMMENDATION:

I recommend approval of this application and issuance of a permit to allow appropriation of 40 gpm; 4 acre-feet per year from a well for multiple domestic supply. The period of use shall be year-round, as needed.

This permit shall be subject to all applicable state regulations and the following provisions:

PROVISIONS:

Installation and maintenance of an access port as described in WAC 173-160-355 is required. An air line and pressure gauge may be installed in addition to the access port.

All water wells constructed within the State shall meet the minimum standards for well construction and maintenance as provided under RCW 18.104, Washington Water Well Construction Act of 1972, and Chapter 173-160 WAC, Minimum Standards for Construction and Maintenance of Wells.

A completed well report of the well shall be submitted by the driller to the Department of Ecology within 30 days of completing this well. All pump test data for this well shall be submitted to the Department as it is obtained.

In accordance with WAC 173-160-205, wells shall not be located within certain minimum distances of potential sources of contamination. These minimum distances shall comply with local health regulations, as appropriate. In general, wells shall be located at least 100 feet from a sewer, septic tank, privy, or other source of potential contamination. Wells shall not be located within 1,000 feet of a solid waste landfill.

"Upon completion of construction, a 4-hour pump test shall be conducted on this well(s) at the proposed rate of withdrawal, following the procedures outlined by the enclosed DOH guidelines. Results of this test shall be submitted to the Department of Ecology prior to filing proof of appropriation. The instantaneous rate authorized under the resulting certificate may be reduced to reflect the production capacity of these wells, or to protect existing rights."

The applicant is advised that notice of proof of appropriation of water (under which the final certificate of water right is issued) should not be filed until the permanent diversion facilities have been installed, and the system is currently in use. This includes installation of a mainline system capable of delivering the recommended quantity of water to an existing or proposed distribution system within the area to be served, and fulfillment of all other terms of this permit.

Report Continued

The water appropriated under this application will be used for public water supply. The State Board of Health rules require public water supply owners to obtain written approval from the Office of Water Supply, Department of Health, Mail Stop LD-11, Building 3, Olympia, Washington 98504, prior to any new construction or alterations of a public water supply system.

This well shall be cased and permanently sealed to a minimum depth of 18 feet below land surface. Such sealing shall be performed in accordance with the provisions and standards of Chapter 173-160-265 WAC (Minimum Standards for Construction and Maintenance of Water Wells).

An approved metering device shall be installed and maintained in accordance with RCW 90.03.360, WAC 508-64-020 through -040 (installation, operation, and maintenance requirements are attached). Meter readings shall be recorded at least monthly.

Installation and maintenance of an access port as described in WAC 173-160-355 is required. An air line and gauge may be installed in addition to the access port.

REPORTED BY: J. VanHalle Date: April 18, 1994

The statutory permit fee for this application is \$20.00.