

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 July 24, 1991	APPLICATION NUMBER G2-28223	PERMIT NUMBER	CERTIFICATE NUMBER
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NAME Birkey/Hansford Water System			
ADDRESS (STREET) 32519 Mountain Highway	(CITY) Eatonville	(STATE) Washington	(ZIP CODE) 98328-9768

PUBLIC WATERS TO BE APPROPRIATED

SOURCE
A well

TRIBUTARY OF (IF SURFACE WATERS)

MAXIMUM CUBIC FEET PER SECOND	MAXIMUM GALLONS PER MINUTE 40	MAXIMUM ACRE-FEET PER YEAR 4.5
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QUANTITY, TYPE OF USE, PERIOD OF USE
4.5 acre-feet per year Multiple domestic supply Year-round, as needed

LOCATION OF DIVERSION/WITHDRAWAL

APPROXIMATE LOCATION OF DIVERSION-WITHDRAWAL
450 feet south and 500 feet east of the center of Section 21.

LOCATED WITHIN (SMALLEST LEGAL SUBDIVISION) NW $\frac{1}{4}$ SE $\frac{1}{4}$	SECTION 21	TOWNSHIP N. 17	RANGE, (E. OR W.) W.M. 3E	W.R.I.A. 11	COUNTY Pierce
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RECORDED PLATTED PROPERTY

LOT	BLOCK	OF (GIVE NAME OF PLAT OR ADDITION)
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LEGAL DESCRIPTION OF PROPERTY ON WHICH WATER IS TO BE USED

The west one half of the southeast quarter of Section 21, T. 17 N., R. 3 E.W.M., EXCEPT the south 30 feet for road purposes.

DESCRIPTION OF PROPOSED WORKS

A 6" well approximately 80-120' deep.

DEVELOPMENT SCHEDULE

BEGIN PROJECT BY THIS DATE:

March 1, 1993

COMPLETE PROJECT BY THIS DATE:

March 1, 1994

WATER PUT TO FULL USE BY THIS DATE:

March 1, 1995

REPORT

I recommend issuance of a permit for Application #G2-28223 based on the following report:

BACKGROUND:

Pursuant to Chapter 90.44 Revised Code of Washington (RCW), Thomas L. Ketzenberg, for the Birkey/Hansford Water System, applied for a permit to appropriate public groundwater from a well. The quantity requested is 40 gallons per minute (gpm) for multiple domestic supply. The application was accepted for processing and assigned application No. G 2-28223.

Legal notice of the proposed appropriation was duly published in "The South Pierce County Dispatch" of Eatonville, Washington. No protests were received as a result of this notice.

INVESTIGATIONS:

I conducted a field investigation of the project site. The applicant was not present during the site visit. Other inquiry included a review of area well logs and existing water rights.

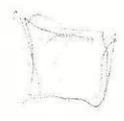
Location and Description of Site

The proposed place of use is located 5.5 miles east of the Town of McKenna. This 9 lot development is located in an area of single family homesites and small subdivisions, and moderate but increasing residential use is typical of the surrounding area.

The well has not been drilled at this time. When constructed the well will be located near the end of the road leading into the development. A pumphouse will be located adjacent to the well and will contain four 85 gallon pressurized storage tanks and associated equipment.

System Description (anticipated)

Well depth: 80-120 feet
Casing diameter: 6 inches
Pump size: 3 hp
Anticipated yield: 40 gpm



Aquifer Characteristics

The applicant's well will be completed in an aquifer formation consisting of sand and gravel, similar to the formation penetrated by other nearby wells. Area well logs show that the overlying layers are composed of clay and combinations of clay, sand, and gravel.

Effect on Existing Rights

The following groundwater records are on file with Department of Ecology within a half mile of the subject well:

- 3 groundwater certificates

These certificates authorize a combined instantaneous withdrawal rate of 600 gpm and appropriate a total of 225.5 acre-feet per year for irrigation of 105 acres, fish propagation and domestic supply.

■ 26 well logs

Most wells are completed in sandy/gravelly formations. Wells range in depth from 48 to 137 feet (well head elevations vary from 480 to 500 feet). Most of these wells appear to be completed in the same water bearing zone as targeted by the applicant.

It is unlikely that withdrawals from the applicant's well at 40 gpm will interfere with the production of neighboring wells. However, withdrawals from this well may need to be regulated in the future if senior water rights are impaired.

Water Requirements

Water requirements for domestic supply should not exceed an average of 450 gallons per day per service, or 4.5 acre-feet per year for 9 services.

CONCLUSION:

In accordance with Chapter 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 should not impair existing rights or be detrimental to the public welfare.

RECOMMENDATIONS:

I recommend approval of this application and issuance of a permit to allow appropriation of 40 gpm, 4.5 acre-feet per year, from this well for multiple domestic supply. The period of use shall be year-round, as needed.

Due to the proximity of neighboring wells, the applicant is advised that withdrawals and pumping rates from the subject well may need to be regulated in the future if senior rights are impaired.

This permit shall be subject to existing rights and the following provisions:

PROVISIONS:

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.

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.

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.

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.

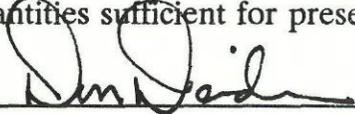
In accordance with WAC 173-160-205, wells shall not be located within certain minimum distances of potential sources of contamination. These minimum distances shall comply with local health regulations, as appropriate. In general, wells shall be located at least 100 feet from a sewer, septic tank, privy,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

This permit may be subject to implementation of the minimum requirements established in the Interim Guidelines for Public Water Systems Regarding Water Use Reporting, Demand Forecasting Methodology and Conservation Programs, July 1990 (attached), and as revised.

Report Continued

Under RCW 90.03.005 and 90.54.020(6), conservation and improved water use efficiency must be emphasized in the management of the State's water resources, and must be considered as a potential new source of water. Accordingly, as part of the terms of this permit, the applicant may be required to prepare and implement a water conservation plan approved by Department of Health. The standards for such a plan may be obtained from either the Department of Health or the Department of Ecology.

The Water Resources Act of 1971 specifies certain criteria regarding utilization and management of the waters of the State in the best public interest. Favorable consideration of this application has been based on sufficient waters available, at least during portions of the year. However, it is pointed out to the applicant that this use of water may be subject to regulation at certain times, based on the necessity to maintain water quantities sufficient for preservation of the natural environment.

REPORTED BY:  Date: November 24, 1992

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