

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 May 24, 1990	APPLICATION NUMBER G2-27770	PERMIT NUMBER	CERTIFICATE NUMBER
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NAME Don Unkifer			
ADDRESS (STREET) 6676 Gun Park Drive	(CITY) Boulder	(STATE) Colorado	(ZIP CODE) 80301

PUBLIC WATERS TO BE APPROPRIATED

SOURCE
A well

TRIBUTARY OF (IF SURFACE WATERS)

MAXIMUM CUBIC FEET PER SECOND	MAXIMUM GALLONS PER MINUTE 50	MAXIMUM ACRE-FEET PER YEAR 4.0
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QUANTITY, TYPE OF USE, PERIOD OF USE
4.0 acre-feet per year Multiple domestic supply Year-round, as needed

LOCATION OF DIVERSION/WITHDRAWAL

APPROXIMATE LOCATION OF DIVERSION-WITHDRAWAL
820 feet south and 780 feet east of the northwest corner of Section 24.

LOCATED WITHIN (SMALLEST LEGAL SUBDIVISION) SE $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$	SECTION 24	TOWNSHIP N. 30	RANGE, (E. OR W.) W.M. 3W	W.R.I.A. 17	COUNTY Clallam
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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

All of the northwest quarter of the northwest quarter of Section 24, T. 30 N., R. 3 W.W.M., Clallam County, Washington; EXCEPT that portion of Panorama Vista Subdivision lying south of the north line of Section 24, T. 30 N., R. 3 W.W.M.

DESCRIPTION OF PROPOSED WORKS

A 6" x 160' well with a 5 horsepower pump, 3-inch distribution mainline, and a 10,000 gallon reservoir.

DEVELOPMENT SCHEDULE

BEGIN PROJECT BY THIS DATE:	COMPLETE PROJECT BY THIS DATE:	WATER PUT TO FULL USE BY THIS DATE:
Started	October 1, 1994	October 1, 1995

REPORT

I recommend issuance of a permit for Application #G2-27770 based on the following information:

BACKGROUND:

Pursuant to Chapters 90.03 and 90.44 Revised Code of Washington (RCW), Don Unkifer applied for a permit to appropriate public groundwater from a well. The amount requested is 50 gallons per minute (gpm) for multiple domestic supply. The application was assigned priority date May 24, 1990.

Legal notice of the proposed appropriation was published in the "Peninsula Daily News" on the 7th and 14th of June, 1990. No protests were received as a result of this notice.

INVESTIGATIONS:

Jill Van Hulle and I conducted a field examination of this site on February 27, 1992. Don Unkifer was not present but was subsequently contacted by telephone. Department of Ecology records of groundwater rights and well reports were reviewed.

Location and Site Description

The applicant's property is located at the northwest end of Miller Peninsula, three miles due east of Sequim across Sequim Bay. Surrounding areas are dominated by forested areas and residential use. The development is known as the High Banks Subdivision.

The well is located in a small clearing on a forested bluff which overlooks the Strait of Juan de Fuca. An area to the southeast of the well has been cleared for development. One home is currently under construction.

Description of Water System

Well depth:	160 feet
Well head elevation:	160 feet MSL (approximate)
Casing diameter:	6 inches
Static water level:	137 feet
Yield:	50 gpm
Pump size:	5 hp
Mainline diameter:	3 inches
Reservoir capacity:	10,000 gallons

The distribution mainline has been installed.

Aquifer Information

This well derives water from a water-bearing zone consisting of gray sand and gravel from 140 to 159 feet. Layers of brown sand and gravel, and brown clay and cobbles, overlie this zone.

A four-hour pump test was conducted on this well on May 5, 1990. A stabilized drawdown of 6.2 feet resulted after 25 minutes of pumping at increasing rates to 50 gpm. A rate of 50 gpm was sustained for the duration of testing with no further drawdown.

The well is located within 1000 feet of the Strait of Juan de Fuca. Because of its proximity to seawater, withdrawals from this well may contribute to seawater intrusion into the aquifer. Quarterly monitoring and reporting of chloride levels will be required under this permit.

Effect on Existing Rights

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

■ Two water right certificates:

Certificate #G2-25873C: Two wells for Quilcene Associates, located approximately 1/8 mile east of the Unkifer well. This certificate authorizes withdrawals of 92 gpm, 9.5 acre-feet per year. The wells appear to be completed within the same water-bearing zone as the Unkifer well.

Certificate #G2-21129C: Two wells for Panorama Vista Partnership, Ltd., located 1/4 east and 1/2 mile northeast of the Unkifer well. This certificate authorizes withdrawals of 300 gpm, 40 acre-feet per year.

■ 11 well logs

Most of these wells derive water from water-bearing formations consisting of sand and gravel, similar to the subject well. At least five, including the Quilcene Associates and Panorama Vista wells, are completed below sea level.

■ No water right claims are recorded.

Due to the small quantity of withdrawals, it is unlikely that the subject well will interfere with neighboring wells. However, the pumping rate and/or withdrawals from this well may be regulated if senior water rights are impaired.

Water Requirements

Water requirements for multiple domestic supply should not exceed an average of 450 gallons per day. This amounts to 4.0 acre-feet per year for eight homes.

CONCLUSION:

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 as recommended is a beneficial use, and should not impair existing rights or be detrimental to public welfare.

RECOMMENDATIONS:

I recommend approval of this application and issuance of a permit to allow appropriation of 50 gallons per minute, 4.0 acre-feet per year, from this well for multiple domestic supply. The period of use shall be year-round, as needed.

The applicant is advised that withdrawals and pumping rates from the subject well may be regulated in the future if senior water rights are impaired.

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

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.

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.

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.

Chloride concentration analysis shall be performed prior to system use, then quarterly when the system is in use, by a laboratory accredited by the Department of Ecology. The resulting data shall be submitted to the Department of Ecology, Southwest Regional Office. If the chloride concentration exceeds 50 mg/L, the withdrawal rate shall be reduced or the pump setting raised to reduce the chloride level to below 50 mg/L.

This permit is subject to the 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, (which is attached).

Under RCW 90.03.005 and 90.54.020(6), conservation and improved water use efficiency must be emphasized in the management of the states water resources, and must be considered as a potential new source of water. Accordingly, as part of the terms of this permit, the applicant shall 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: Maive Peter Date: October 12, 1992

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