STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
AMENDED

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	APPLICATION NUMBER	PERMIT NUMBER	CERTIFICATE NUMBER
July 13, 1990	G2-27817		

NAME
Pope Resources

ADDRESS (STREET)	(CITY)	(STATE)	(ZIP CODE)
Post Office Box 1780	Poulsbo	Washington	98370-1780

PUBLIC WATERS TO BE APPROPRIATED

SOURCE
Well No. 2

TRIBUTARY OF (IF SURFACE WATERS)

MAXIMUM CUBIC FEET PER SECOND	MAXIMUM GALLONS PER MINUTE	MAXIMUM ACRE-FEET PER YEAR
	30	27

QUANTITY, TYPE OF USE, PERIOD OF USE		
27 Acre-feet per year	Community domestic supply (54 homes)	Year-round, as needed

LOCATION OF DIVERSION/WITHDRAWAL

APPROXIMATE LOCATION OF DIVERSION-WITHDRAWAL
215 feet east and 13 feet south of the northwest corner of Section 35.

LOCATED WITHIN (SMALLEST LEGAL SUBDIVISION)	SECTION	TOWNSHIP N.	RANGE, (E. OR W.) W.M.	W.R.I.A.	COUNTY
NW¼NW¼NW¼	35	28	1E	17	Jefferson

RECORDED PLATTED PROPERTY

LOT	BLOCK	OF (GIVE NAME OF PLAT OR ADDITION)

LEGAL DESCRIPTION OF PROPERTY ON WHICH WATER IS TO BE USED

Section 26, T. 28 N., R. 1 E.W.M., EXCEPT northwest quarter of the northwest quarter
Section 33, T. 28 N., R. 1 E.W.M.
Section 34, T. 28 N., R. 1 E.W.M.
Section 35, T. 28 N., R. 1 E.W.M.
Section 2, T. 27 N., R. 1 E.W.M.
Section 3, T. 27 N., R. 1 E.W.M.

DESCRIPTION OF PROPOSED WORKS

An 8" x 255' well.

DEVELOPMENT SCHEDULE

BEGIN PROJECT BY THIS DATE:	COMPLETE PROJECT BY THIS DATE:	WATER PUT TO FULL USE BY THIS DATE:
Started	April 1, 1993	April 1, 1995

REPORT

BACKGROUND:

The priority date of this application is July 13, 1990. On that date Ronald Byers, on behalf of Pope Resources, applied for a permit under the provisions of Chapters 90.44 and 90.03 Revised Code of Washington (RCW) to appropriate public ground water from a well at a rate of 30 gallons per minute. The water is intended for community domestic supply of 54 homes. The application was accepted for processing under application number G2-27817.

A legal notice of the proposed appropriation was published on November 28th and December 5th, 1990, in the "Port Townsend/Jefferson County Leader". No objections were recieved as a result of the public notice.

INVESTIGATIONS:

In consideration of this application, I conducted a field investigation of the site on February 26, 1992. The applicant was not present on the site. Other investigations included a review of neighboring well logs, water right certificates and the information submitted by the applicant. For additional information I contacted Jefferson County PUD #1, Pope Resources and Greg Roats of Roats Engineering.

The project site is located in eastern Jefferson County, just west of the Hood Canal Floating Bridge. Port Ludlow, 5 miles to the north, is the nearest community. The area surrounding the project site is predominantly rural. Four homes are currently being served by the well and several residents are currently occupying new homes without a water supply. Other lots have been partially cleared to accommodate additional home sites.

The eight inch well was drilled in 1989 to a depth of 255 feet. It is completed at 45 feet above sea level in sand and gravel. The casing is screened from 250 to 255 feet. Well log information indicates the presence of intervening layers of less permeable material, mainly blue clay.

The well is located in a cinder block pumphouse on Alpine Court, one of the access roads for the subdivision. An additional booster pump is located on the corner of Bywater Way.

This well, identified as well #2, is to be pumped in conjunction with a second well (well #1), which has been applied for under ground water application G2-27816. This water system is being developed by Pope Resources and after construction will be owned and operated by Jefferson County Public Utility District (PUD) #1. System design was done by ~~of~~ Roats Engineering.

An eight hour pump test performed on well #2, drew the water level in the casing down by 3 feet. After the pump was turned off, the static water level returned to the pre-test level in one minute.

The distribution system includes a 5 horsepower submersible pump that is capable of producing 30 gallons per minute. Water is discharged into an 85,000 gallon storage tank along with water from Jefferson County well #1, then served to the homes via 21,180 feet of water mainline. Construction on the mainline is expected to begin over the summer of 1992.

DISCUSSION:

Department of Ecology records indicate that there are two wells that have been constructed within a half mile radius of Well #2; they are 78 and 439 feet deep. No ground water certificates have been issued for this same area.

Based on well spacing in the area and water use requirements, well interference is unlikely. Additionally, these wells are being developed to provide water to rural residents who have been utilizing private wells, many with water quality problems. The applicant is reminded, however, of the responsibility towards other right holders

in the area, and advised that regulation of the withdrawal and pumping rate may be required if existing rights are injuriously affected.

Jefferson County with its abundance of coastline and unique geology appears to be at particular risk for sea water intrusion conditions. Because of the close proximity of Well #2 to the coastline, the potential for sea water intrusion exists. An inorganic chemical analysis was performed on August 2, 1989. Chloride levels were found to be below 10 mg/L and the sample had a specific conductivity of 500, at that time. Chloride concentration monitoring will be required for this well as described under the provisions below.

The water requirements for a community domestic system of this nature should not exceed an average daily use of 450 gallons per day or 0.5 acre-feet per year per residence. This includes sufficient water to irrigate up to one half acre of lawn and garden per residence, and amounts to 27 acre feet per year for the 54 connections.

CONCLUSIONS:

In accordance with Chapters 90.03 and 90.44 RCW, I find there is water available for appropriation from the source in question, the appropriation is a beneficial use and will 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 30 gallons per minute, 27 acre-feet per year from this well for community domestic supply of 54 homes. The period of use shall be year round as needed.

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. Water levels shall be measured and recorded using a consistent methodology, in accordance with accepted industry standards. Such measurements shall be made at least monthly. The length of the pumping period or recovery period prior to each measurement shall be constant, and shall be included in the record.

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 quarterly by a laboratory accredited by the Department of Ecology and 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.

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, together with 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 the system is currently in use.

The water source and/or water transmission facilities are not wholly located upon land owned by the applicant. Issuance of a permit by this department for appropriation of the waters in question does not convey a right of access to, or other right to use, land which the applicant does not legally possess. Obtainment of such right is a private matter between applicant and owner(s) of that land.

The use of the waters to be appropriated under this application will be for a public water supply. The State Board of Health rules require every owner of a public water supply 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.

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.

Report Continued

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: May 11, 1992

The statutory permit fee for this application is $20.00.