**WATER WELL REPORT**

**Type of Work:**

Construction

Decommission Original installation NOI No.

**Proposed Use:**  Domestic  Industrial  Municipal

Dewatering  Irrigation  Test Well  Other

**Construction Type:**  **Method:**

New well  Alteration  Driven  Jetted  Cable Tool

Deepening  Other        Dug  Air-  Mud-Rotary

**Dimensions:** Diameter of boring       in., to       ft.

Depth of completed well       ft.

**Construction Details:** Wall

Casing Liner Diameter From To Thickness Steel PVC Welded Thread

|        in.                 in.  |   |

|        in.                 in.  |   |

|        in.                 in.  |   |

|        in.                 in.  |   |

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| --- | --- | --- |
| **Driller’s Log/Construction or Decommission Procedure**  Formation: Describe by color, character, size of material and structure, and the kind and nature of the material in each layer penetrated, with at least one entry for each change of information. Use additional sheets if necessary. | | |
| Material | From | To |
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| Start Date       Completed Date | | |

**Perforations:**  Yes  No Type of perforator used

No. of perforations       Size of perforations       in. by       in.

Perforated from       ft. to       ft. below ground surface

**Screens:**  Yes  No  K-Packer Depth       ft.

Manufacturer’s Name

Type       Model No.

Diameter       Slot size       in. from       ft. to       ft.

Diameter       Slot size       in. from       ft. to       ft.

**Sand/Filter pack:**  Yes  No Size of pack material       in.

Materials placed from       ft. to       ft.

**Surface Seal:**  Yes  No To what depth?       ft.

Material used in seal

Did any strata contain unusable water?  Yes  No

Type of water?       Depth of strata

Method of sealing strata off

**Pump:**  Manufacturer’s Name       Type:

H.P.       Pump intake depth:      ft. Designed flow rate:       gpm

**Water Levels:** Land-surface elevation above mean sea level       ft.

Stick-up of top of well casing       ft. above ground surface

Static water level       ft. below top of well casing Date

Artesian pressure       lbs. per square inch Date

Artesian water is controlled by       (cap, valve, etc.)

**Well Tests:**

Was a pumping test performed?  No  Yes by whom?

Yield       gpm with      ft. drawdown after       hrs.

Yield        gpm with      ft. drawdown after       hrs.

Yield       gpm with      ft. drawdown after       hrs.

Recovery data (time = zero when pump is turned off – water level measured from well top to water level)

Time Water Level Time Water Level Time Water Level

                               

                          

                         

Date of pumping test

Bailer test       gpm with      ft. drawdown after      hrs.

Air test       gpm with stem set at       ft. for       hrs. Date

Artesian flow       gpm

Temperature of water       o F Was a chemical analysis made?  Yes  No

**WELL CONSTRUCTION CERTIFICATION:**  I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well

construction standards. Materials used and the information reported above are true to my best knowledge and belief.

Notice of Intent No.

Unique Ecology Well ID Tag No.

Site Well Name (if more than one well):

Water Right Permit/Certificate No.

Property Owner Name

Well Street Address

City       County

Tax Parcel No.

Was a variance approved for this well?  Yes  No

If yes, what was the variance for?

Location (see instructions on page 2):  WWM or  EWM

      ¼-¼ of the       ¼; Section       Township       Range

Latitude (Example: 47.12345)

Longitude (Example: -120.12345)

|  |
| --- |
| Driller  Trainee  PE – Print Name |
| Signature |
| License No. |
| IF TRAINEE: Sponsor’s License No. |
| Sponsor’s Signature |

|  |
| --- |
| Drilling Company |
| Address |
| City, State, Zip |
| Contractor’s |
| Registration No.       Date |

WATER WELL/DEWATERING SYSTEM

CONSTRUCTION PROCESS

After a well is constructed, modified or decommissioned, a well report must be filed within 30 days to the Department of Ecology. Well reports are filled out by the person who constructed the well. This is typically a Washington State licensed well operator.

The following form is used for ***water wells and dewatering systems******only***. Below are the instructions for filling out a water well report. After the form has been printed and filled out, it should be mailed to the Department of Ecology Regional Office responsible for the area the well work was conducted.

**INSTRUCTIONS**

**Type of Work** – This form is used for BOTH construction and decommissioning of a well. Please check the appropriate box. For decommissioning – enter the original construction Notice of Intent No. here (if available).

**Dimensions** – Nominal diameter of uncased boring (drill bit size) and total depth drilled. Depth of completed well may be different from total depth drilled.

**Construction Details** – Choose either *Casing* or *Liner*. Enter nominal diameter and depth range. Check the type of material and whether it was welded or threaded. A description of mechanically locked liners may be added to the Driller’s Log/Construction Procedures section.

**Perforations** – Well casing perforations; read each statement and answer appropriately.

**Screens** – Well screens and screen assembly information. A K-packer is designed to provide a sand tight seal between a well screen assembly and casing.

**Sand/Filter Pack** – Read each statement and answer appropriately.

**Surface Seal** – Read each statement and answer accurately.

**Water Levels** – *Casing stick-up* means the height, in feet, the well casing rises above ground surface (preferably measured to the hundredth [ie. 2.34 ft]). *Static water level* is the depth, in feet, to the water surface inside the well or boring (preferably measured to the hundredth [ie. 6.78 ft]). A *static* water level implies the measurement is not disturbed by pumping or drilling, or a nearby well that is pumping. Include the date the measurement was taken. Artesian pressure is the gauge reading of a flowing artesian well with the valve closed (shut-in pressure), reported in psi.

**Well Tests –** A pumping test is the process of pumping groundwater out of a well and measuring the water level response through time. This process is the best way to determine the efficiency of the well. *Drawdown* is the amount the water level is lowered below static level when pumping. A *bailer test* is a common way to test well efficiency while cable-tool drilling, whereby a tool called a bailer is used to pull up and dump water onto the ground, simulating pumping. An *air test* is commonly used when drilling an air-rotary well to estimate well production, since an air compressor is always on hand.

**Notice of Intent No.** – The number issued by the Department of Ecology for tracking purposes (e.g., W123456). Should start with a W, A or D for this form.

**Unique Ecology Well ID Tag No**. – The number issued by the Department of Ecology that is stamped on a metal tag that is attached to the actual well. (e.g., AAA-000)

**Site Well Name (if more than one well)**: If there is more than one well on the site, you may identify each well with a site well name or number and place it in this space. This is different from the Unique Ecology Well ID Tag No.

**Water Right Permit/Certificate No**. – If the well will use more than 5,000 gallons per day or irrigate more than ½ acre of land, you must have a water right. This number should be written here.

**Property Owner Name** – The name of the property owner.

**Well Street Address** – The physical address where the well is located. (Note: NOT the mailing address.)

**City** – City where the well is located.

**County** – County where the well is located.

**Tax Parcel No**. – County tax parcel number - enter *ROW* for right-of-way.

**Was a variance approved?** – A variance request is submitted to a regional well coordinator if the regulations cannot be met. Explain the request here.

**Location** – The quarter-quarter, quarter, section, township and range (TRS) of the well. For example: the SE ¼-¼ of the NE ¼, S10, T20N, R05 – and then check box for West or East of the Willamette Meridian [*WWM/EWM]* for range. The web-based State Well Report Viewer in *map view* is one of the best places to determine well location using the TRS system.

**Latitude/Longitude** – Using a GPS or web-based coordinates, enter the latitude and longitude of the well using the WGS84 coordinate system. Please input to the fifth decimal place.

**Driller’s Log/Construction or Decommission Procedure** – Describe the geologic materials encountered while boring. Also, decommissioning procedures, additional location notes, or unusual aspects of the project can be written here.

**Well Construction Certification –** Read the statements; enter the Driller and Drilling Company information; sign and date in the blanks provided. A sponsor is the licensed driller that is responsible for a trainee according to 173-162 WAC.