October 31, 2016

Project 1609-0010-001

Mr. Ruurd Veldhuis Manager Wind Mill Estates 650 Hornby Road Grandview, WA 98930 Public Services (

OCT 31 2016

Vern Gary Don Lynn

Dave Lisa Carmen

CUPIU-019

SUBJECT:

Hydrogeologic Impact Assessment

Fryslan Ranch Calf Yard Wind Mill Estates Mabton, Washington

Dear Mr. Veldhuis:

Inland Earth Sciences Corporation (IES) is pleased to present Wind Mill Estates (the "Client") this Hydrogeologic Impact Assessment Report (the "Assessment") for the proposed Fryslan Ranch Calf Yard (the "FRCY" or the "Facility"). The Client operates concentrated animal feeding operations (CAFO) that provide replacement cows for four dairies owned by the Client. All Client CAFOs are located within the southeastern Yakima County.

The Client desires to move and consolidate the young calf (70 to 150-pound range) and elementary calf (150 to 300-pound range) operations to the Facility, to be sited approximately 2½ miles southeast of Mabton, Washington. The Facility is located in (1) the southwest quarter (SW¼) of the southwest quarter (SW¼), of Section 8, Township 8 North, Range 23 East, Willamette Meridian, Yakima County Parcel No. 230808-33001 and (2) the northwest quarter (NW¼) of Section 17, Township 8 North, Range 23 East, Willamette Meridian, Yakima County Parcel No. 230817-21001. Currently, the young and elementary calf operations are distributed over four separate locations of various acreage located west-northwest of Grandview, Washington. Locations of the four current operations and proposed Facility are presented on Figure 1.

PURPOSE AND METHODOLOGY

The purpose of this Assessment is to:

- Evaluate current water use by the four existing calf operations, including pumping rates, annual
 consumption, and identifying the hydrogeologic unit(s) supplying this water;
- Evaluate projected water use at the proposed Facility, including pumping rates, annual consumption, identifying the hydrogeologic unit(s) supplying this water, and examining possible impacts to surrounding wells, and;
- Identify the net effect, if any, on the groundwater system in the lower Yakima Valley due to relocation and consolidation of calf operations to the Facility.



A number of sources were used to compile information related to geology, hydrogeology, and well construction as related to the current operations, the Facility, and the area surrounding the Facility. The sources include:

- Hansen, Jr., A. J., Vaccaro, J. J., and Bauer, H. H., 1991, *Ground-Water Flow Simulation of the Columbia Plateau Regional Aquifer System, Washington, Oregon, and Idaho*: U.S. Geological Survey Water-Resources Investigations Report 91-4187, 81p.
- Jones, M.A., Vaccaro, J.J., and Watkins, A.M., 2006, *Hydrogeologic framework of sedimentary deposits* in six structural basins, Yakima River Basin, Washington: U.S. Geological Survey Scientific Investigations Report 2006-5116, 24 p.
- Jones, M.A., and Vaccaro, J.J., 2008, Extent and depth to top of basalt and interbed hydrogeologic units, Yakima River Basin aquifer system, Washington: U.S. Geological Survey Scientific Investigations Report 2008–5045, 22 p., 5 pls.
- Vaccaro, J.J., Jones, M.A., Ely, D.M., Keys, M.E., Olsen, T.D., Welch, W.B., and Cox, S.E., 2009, Hydrogeologic framework of the Yakima River basin aquifer system, Washington: U.S. Geological Survey Scientific Investigations Report 2009–5152, 106 p.
- Washington State Department of Ecology Washington State Well Log Viewer; https://fortress.wa.gov/ecy/waterresources/map/WCLSWebMap/default.aspx

Information gathered from these sources combined with physical measurements and observations made at the facility were used to assess the hydrogeologic conditions and develop conclusions regarding the geology, hydrogeology, current water use, and proposed water use for the current operations and proposed Facility. This assessment and conclusions are presented in the following sections.

CURRENT OPERATIONS

Currently, the Client's young and elementary calf operations are distributed at four separate locations of various acreage located west-northwest of Grandview, Washington (Figure 1). Approximately 8,200 calves (on average) are being raised at the four sites at any given time. These four operations are designated for purposes of this assessment as:

- The "Calf Ranch" operation, located near 771 Hornby Road, Grandview Washington. The Calf Ranch site typically holds approximately 5,000 calves. The calves are supplied water by the well designated "CRW". The location of the well is depicted on Figure 2A and 2B; well specifics are presented in Table 1.
- The "Commodity Barn" operation, located near 180 Wasson Road, Grandview Washington. The
 Commodity Barn site typically holds approximately 800 calves. The calves are supplied water by the
 well designated "CBW". The location of the well is depicted on Figures 2A and 2B; well specifics are
 presented in Table 1.



- The "Van Boven Feed Lot" operation, located near 731 Den Boer Road, Grandview Washington. The
 Van Boven Feed Lot site typically holds approximately 1,500 calves. The calves are supplied water
 by the well designated "VBFL". The location of the well is depicted on Figures 2A and 2B; well
 specifics are presented in Table 1.
- The "Walters Dairy" operation, located near 731 Den Boer Road, Grandview Washington. The
 Walters Dairy site typically holds approximately 900 calves. The calves are supplied water by the
 wells designated "WD1" and "WD2". The location of the wells are depicted on Figures 2A and 2B;
 well specifics for WD1 are presented in Table 1.

Based on analysis of the stratigraphy presented in the logs for wells CRW, CBW, VBFL, and WD1 (Appendix A), all four wells are completed in unconsolidated sedimentary deposits (Jones *et al*, 2006) generally consisting of alluvial, alluvial fan, loess, terrace, dune sand, Touchet, Missoula flood and Ringold Formation deposits. Well depths range from 65 to 125 feet below ground surface (bgs) with depth to water prior to pumping ranging from six to 40 feet bgs. Stratigraphy is described by the logs as primarily sand with sandy and gravely clays and occurrences of broken basalt.

These unconsolidated deposits form important unconfined water-bearing units (Vaccaro *et al*, 2009), as well as semiconfining to confining units. Estimates of effective lateral hydraulic conductivity (K_H) for the complete thickness of the basin-fill deposits ranged from 0.02 to 150,000 feet per day (ft/d). This large range in estimated values is due to the large variation in grain size, depositional regimes, and age of the deposits. The deposits include shale, sandstone, clay, sand, gravel, and cobbles.

Based on information supplied by the Client, calculations of pumping rate and total water consumed on an annual basis can be made for the four facilities; this information is presented in Table 2. Using a per calf consumption of three gallons per day (gpd) in the winter months (October to March) and 4 gpd in the summer months (April to September) an annual average total consumption of approximately 32 acre-feet (ac-ft) for the four facilities is estimated. Estimated pumping rates range from 17 to 23 gallons per minute (gpm) based on the season. Summarizing, approximately 32 ac-ft per year is withdrawn from the shallow, unconsolidated deposits located west-northwest of Grandview by these operations at pumping rates ranging from 17 to 23 gpm.

PROPOSED FACILITY

All young and elementary calves from the current four operations would be relocated to the Facility. Calving operations at the existing operations would be discontinued. The Facility would draw water from well BIF-430, situated in the southwest quarter (SW½) of the southwest quarter (SW½), Section. 8, Township 8 North, Range 23 East, Willamette Meridian, and located approximately at latitude 46.1858177, longitude -119.9661942 (NAD83). The Facility, the immediate surrounding area, and well BIF-430 is depicted on Figures 3A and 3B.

Well BIF-430 was constructed and is proposed to be used under the livestock exemption provided as part of the Groundwater Permit Exemption (RCW 90.44.050). Some water will be used for mixing and cleaning of new-born formula and feedings equipment. This accessory use of water related to watering livestock is



claimed to be part of stock watering purposes. Water withdrawals are anticipated to be approximately 30 ac-ft per year (approximately 25,000 gpd), at an average anticipated pumping rate of 18 gpm.

Well BIF-430 is an 8-inch diameter well drilled to a depth of 370 feet bgs. The well log is attached as part of Appendix B. The Well is constructed of welded steel casing. The well is classified as "open pipe"; no screen or perforations were installed as part of the casing. As such, all water is withdrawn from the surrounding formation at 370 feet bgs. The well stratigraphy encountered sediments from ground surface to 118 feet bgs, basalt from 118 to 259 feet bgs, sandstone and clay from 259 to 322 feet bgs, and basalt and broken basalt from 322 to 370 feet bgs. Depth to water in well BIF-430 was recorded at 218 feet bgs at the time of drilling. Depth to water in BIF-430 was measured every 30-minutes from September 21 to September 26, 2016 using a vented pressure transducer and datalogger (INW AquiStar® PT2X). Depth to water at the beginning of the measurement period was 227.80 feet bgs, depth to water at the end of the period was 227.67 feet bgs. During the measurement period, the water level in BIF-430 fluctuated by less than ±0.1 foot from measurement to measurement ("flat-line"), indicating a nearly stable potentiometric surface.

The Washington State Department of Ecology (Ecology) Well Log Viewer was used to evaluate other wells in the surrounding area. The purpose of this evaluation was to gain knowledge of the stratigraphy surrounding the proposed production well and determine what wells may be impaired by the proposed groundwater withdrawal from well BIF-430. A search radius of approximately 1.5 miles from well BIF-430 was selected. Approximately 27 well logs were found for the investigation area; however, it is likely that additional wells are present for which well logs were not submitted or were not recorded in the Ecology database. These wells are summarized on Table 3 and depicted on Figures 3A and 3B. The wells were examined for distance from well BIF-430, completion depth, depth-to-water prior to pumping, and reported stratigraphy. The completion depth combined with the depth-to-water prior to pumping was used to evaluate the Total Head of the well. Evaluation of the Total Head combined with analysis of the stratigraphy can serve to identify the production formation of the well.

Three main water-producing formations are present within the area of well BIF-430: (1) the unconsolidated sedimentary deposits described in the Current Use section of this Assessment; (2) the Saddle Mountain Basalts underlying these unconsolidated sedimentary deposits, and; (3) the Wanapum Basalts underlying the Saddle Mountain Basalts and associated Mabton Interbed. An overview of regional stratigraphy in the Yakima Basin is presented in Figure 4. A brief description of the Saddle Mountain, Mabton, and Wanapum formations is presented below:

Saddle Mountains Basalt

The Saddle Mountain Basalt is the youngest and least extensive of the basalt units (Jones and Vaccaro, 2008). The unit is located within the southeast and south-central part of the Yakima River Basin; the unit is typically hydraulically confined and most of the unit lies beneath the sedimentary basin fill deposits. The Saddle Mountains Basalt (SMB) is composed of at least 13 named flows and 5 interbed members. The SMB flows' texture and composition differ greatly throughout its extent. The sedimentary interbeds contained within the SMB are common, up to 50 feet thick, and range in composition from clay to sand and gravel. The SMB also may contain some of the younger basalts present in the area.



Mabton Interbed

The Mabton Member of the Ellensburg Formation is the sedimentary interbed between the overlying SMB and the Wanapum Basalt (Jones and Vaccaro, 2008). The Mabton is located within the southeast and south-central part of the Yakima River Basin. The unit is hydraulically confined, with most of the unit present beneath the Saddle Mountains Basalt. The Mabton generally consists of clay, shale, claystone, clay with basalt, clay with sand, and sandstone, but also may contain small amounts of sand and sand-and-gravel.

Wanapum Basalt

The Wanapum Basalt is located within the northeast, central, south, and southeastern part of the Yakima River Basin (Jones and Vaccaro, 2008). The Wanapum Basalt is hydraulically confined; most of the Wanapum Basalt lies beneath the basin-fill deposits, Saddle Mountains unit, or Mabton unit. The Wanapum Basalt contains predominantly the basalt and interbed members associated with the Wanapum Basalt. The Wanapum Basalt is composed of at least six named flows and two interbed members. The Wanapum Basalt flows are generally medium-grained to moderately plagioclase-phyric, olivine bearing, and relatively high in iron and titanium oxides. The clay to sand-and-gravel sedimentary interbeds in the Wanapum Basalt are less common than those in the SMB and generally are only a few feet thick. But the Wanapum unit also may contain some of the younger basalt, particularly in areas along the margins of the unit extent and where the younger basalt abuts or overlies the Wanapum Basalt.

The proposed production well (BIF-430) and seven of the wells in the surrounding area were determined to be completed in the Saddle Mountain Basalt formation (Table 3). This determination is based on analysis of the stratigraphy as presented in the well logs in conjunction with total head as recorded in the well prior to pumping. Wells completed in the Saddle Mountain Basalt exhibit a total head ranging from 125 to 300 feet. Eighteen of the wells were determined to be completed in the unconsolidated sediments, based on the same analysis criteria. Total head in the sedimentary wells ranges from 33 to 95 feet. Two wells were determined to be completed in the Wanapum Basalt. Total head in the Wanapum Basalt ranges from 469 to 487 feet.

Figures 3A and 3B depict Well BIF-430 and surrounding wells as available in the Ecology well log database. Of the seven wells in the area surrounding well BIF-430 that completed are in the Saddle Mountain Basalt (Figure 3A and 3B), one well (HARRIGAN) lies between ½ and ¾-mile of the production well, two wells (ALC-037 and BHT-360) lie between ¾ and 1-mile of the production well. Four wells (AHK-705, APK-129, BHT-361, and BIF-445) are located greater than one mile from the production well (Table 3). Well AHK-705 is an irrigation well with a certificated groundwater right (G4-27178C); no other wells have an associated water right.

Effects of groundwater withdrawal from well BIF-430 are expected to be limited to the Saddle Mountain Basalt due to the thickness and confined nature of the formation; there is a very low probability that pumping effects would extend to either the sedimentary or Wanapum Basalt units. Hydraulic characteristics vary greatly within and between the individual basalt flows, members, and hydrogeologic units (Vaccaro *et al*, 2009). Upper zones of the flows were exposed to weathering processes and were broken by subsequent flows, resulting in the formation of conductive "flow tops." These flow tops, when



combined with the base of the overlying basalt flow, form interflow zones that generally exhibit high lateral hydraulic conductivity. In general, the flow tops are brecciated and (or) vesicular and the flow bases are brecciated and may contain pillow complexes if the basalt was extruded within or flowed into water. The interflow zones are separated by the less transmissive entablature and colonnade in which the fractures are typically vertically oriented. The fractures are a result of differential contraction during cooling of basalt flows and of later folding and faulting. The greatest density and lowest lateral hydraulic conductivity generally occurs in the interior or middle of a basalt flow, typically the entablature.

Lateral hydraulic conductivity (referred to as K_H) is a measure of a material's ability to transmit water laterally (Vaccaro *et al*, 2009) typically expressed in units of feet per day (ft/d). Values of K_H can be estimated from specific-capacity data reported on drillers' logs, or determined from aquifer tests or groundwater flow modeling. The lateral hydraulic conductivity of the Saddle Mountain Basalt is estimated to range from 0.007 to 3,200 ft/d (Vaccaro *et al*, 2009), but results from previous studies indicate that the median is about 1 to 2 ft/d with a mean of approximately 1.3 ft/d (Hansen *et al*, 1996). Data from Saddle Mountain Basalt well tests indicated a mean K_H of 18 ft/d in Horse Heaven Hills area, and 10 ft/d in Hanford area (Vaccaro *et al*, 2009). The transmissivity (T) of the Saddle Mountain Basalt is typically estimated at 5.3×10^{-3} ft²/s, or 465 ft²/d (Hansen *et al*, 1996).

The storage coefficient (S) is a measure of a unit's ability to store and release water, and is defined as the volume of water that a unit will absorb or release from storage per unit surface area per unit change in head (Vaccaro *et al*, 2009). It is expressed in units of cubic feet per cubic feet, a dimensionless quantity. Storage coefficients for a confined aquifer can range from 5×10⁻⁵ to 0.005. Estimated median values for Saddle Mountains storage coefficient, as determined based on specific storage, was 2×10⁻⁵ (Vaccaro *et al*, 2009) to 2.5×10⁻³ (Hansen *et al*, 1996).

Using the Theis Equation for a well pumping from a confined aquifer, the amount of drawdown produced at a given distance through continuous pumping of the well at a constant rate can be estimated. A full description of the Theis Equation, including all assumptions for use of this equation, is presented in C.W. Fetter's *Applied Hydrogeology* (Fourth Edition, 2001, Prentice Hall). First, a dimensionless constant, u, is calculated through the following equation:

$$u = \frac{r^2 S}{4Tt}$$

Where:

r =**Distance** from the pumping well

S = Storage coefficient of the formation

T = Transmissivity of the formation

t =Time since pumping began



The constant W(u), the *well function*, is determined from u. The calculation method is described in Fetter (2001). This value of W(u) is then used to solve a second equation:

$$\Delta s = \frac{Q}{4\pi T} W(u)$$

Where:

Q = Pumping rate

T = Transmissivity of the formation

 $\Delta s = Drawdown$ at distance r

This second equation provides the drawdown at a given distance from the pumping well discharging at a constant rate.

For purposes of the impact assessment, use of conservative values for transmissivity and the storage coefficient is reasonable. Conservative values are intended to over-estimate the effects of pumping at a given rate, providing an estimate of the greatest likely drawdown at a given distance from the well. Based on the values for K_H , T, and S for the Saddle Mountain Basalt presented in the literature and described above, a transmissivity of 465 ft²/d and a storage coefficient of 2×10^{-4} were selected for calculation of expected drawdown. The published transmissivity value of 465 ft²/d was selected due to a lack of information regarding the aquifer thickness (aquifer transmissivity is equal to lateral hydraulic conductivity multiplied by the aquifer thickness [designated as b], or, $T = K_H \times b$) at well BIF-430. This transmissivity value is expected to be very conservative for the well. A higher transmissivity value is expected for the producing formation if the aquifer thickness exceeds 25 feet, based on mean K_H values of 18 ft/d in the Horse Heaven Hills area. The storage coefficient of 2×10^{-4} was selected as the mean between the highest and lowest expected median values for the Saddle Mountain Basalt.

Table 4 presents the calculation of drawdown at given distances from well BIF-430 under various pumping rates based on a one year continuous pumping period. The one year pumping period is intended to represent steady-state conditions in the aquifer A summary of the results is presented below.

Pumping Rate		Dra	awdown at Distan (feet)	ice	
(gpm) -	1⁄4-Mile	½-Mile	¾-Mile	1-Mile	1½-Mile
17	3.92	3.14	2.69	2.37	1.92
18	4.15	3.33	2.85	2.51	2.04
23	5.30	4.25	3.64	3.21	2.60
AVERAGE	4.46	3.58	3.06	2.70	2.19

Based on these calculations, it is possible that (under steady-state pumping conditions) groundwater extraction by well BIF-430 could cause the Saddle Mountain Basalt aquifer potentiometric surface to decline in the well vicinity. This decline is expected to not to exceed 2.5 feet at 1-mile from the production well under normal pumping conditions of 18 gpm. Based on use of conservative assumptions in making these calculations, it is likely that the actual decline would be significantly less.



CONCLUSIONS

The following conclusions are made based on this Assessment:

- Approximately 32 ac-ft per year of groundwater is used by the current calf operations. This water is
 withdrawn from the unconsolidated deposits located west-northwest of Grandview. Current pumping
 rates range from 17 to 23 gpm based on the season.
- Relocation of the current calf operations to the proposed Facility would reduce consumption of shallow groundwater in the area west of Grandview by 32 ac-ft, or approximately 10.5 million gallons, per year.
- The proposed production well (BIF-430) for the proposed Facility is completed in, and would produce water from, the Saddle Mountain Basalt aquifer.
- The Facility would require approximately 30 ac-ft of water per year for calving operations, at an
 anticipated average pumping rate of 18 gpm. A reduction of approximately 2 ac-ft per year is likely
 realized via consolidation of the current operations.
- The Saddle Mountain Basalt aquifer is hydraulically isolated from the overlying sedimentary deposit
 aquifer and underlying Wanapum Basalt aquifer. Withdrawal of water from the Saddle Mountain
 Basalt aquifer would not impact either of these aquifers.
- Under steady-state pumping conditions groundwater extraction by well BIF-430 could cause the Saddle Mountain Basalt aquifer potentiometric surface to decline in the well vicinity. This decline is expected to not to exceed 2.5 feet at 1-mile from the production well under normal pumping conditions of 18 gpm. Based on use of conservative assumptions in making these calculations, it is likely that the actual decline would be significantly less.
- Three wells completed in the Saddle Mountain Basalt aquifer are located within one mile of the Facility's proposed production well. No wells within a one-mile radius have an associated water right.
- The anticipated impact to current Saddle Mountain Basalt aquifer users located within the vicinity of the proposed production well is minimal.
- Based on the nature of the consolidation and relocation of the calving operations as presented, there
 is no net change to the volume of groundwater extracted from the lower Yakima Valley, only a change
 in producing formation.
- The overall impact from the calf operations to groundwater users is lessened by relocation of the
 current operations to the Facility. Groundwater extraction from the unconsolidated sedimentary
 deposits within the vicinity of the current operations will be reduced. A significant number of
 residential wells completed in the unconsolidated sedimentary deposits are located within the vicinity
 of the current operations' production wells.



LIMITATIONS

IES performs our services in accordance with the generally accepted standard of care ordinarily exercised by members of the profession practicing in the same geographic region under similar conditions at the same time. No warranty either express or implied, is offered, made or intended.

Our services are intended to provide a source of professional advice, opinions and recommendations. Our professional opinions and recommendations are based on limited observations and information, and may depend on, and be qualified by, information gathered previously by others. Our opinions or recommendations may change as new data become available during additional assessment, investigation, remediation, or development. Site activities and governmental regulations beyond our control could change at any time after the completion of our site work. Therefore, this findings, conclusions, opinions and/or recommendations presented in the Report are valid only as of the date of the observations or information upon which they are based.

Even the most rigorous of professional assessments may fail to identify all existing Site conditions. Our services are limited to those items specifically identified in the Report; issues not specifically addressed in the Report were not included in our services. Our services may include the application of judgment to scientific principles; to that extent, certain results of our work product may be based on subjective professional interpretation.

IES assumes no responsibility or liability whatsoever for any claim, loss of property value, damage, or injury which results from pre-existing hazardous substances being encountered or present on the project site, or from the discovery of such hazardous substances. The property owners are solely responsible for notifying all governmental agencies and the public at large, of the existence, release, treatment or disposal of any hazardous substances observed at the subject site.



IES is pleased to provide the services to Wind Mill Estates. If you have any questions or comments regarding this report, please contact the undersigned.

Very Truly Yours,

INLAND EARTH SCIENCES CORPORATION

Kevin M. Freeman, PG

Principal Geologist

kfreeman@inlandearth.com | (509) 981-4747 Mobile

Steven L. Freeman, PE

Principal Engineer

shicks@inlandearth.com | (208) 699-8115 Mobile

ATTACHMENTS

Table 1 - Current Use Wells

Table 2 - Water Use from Current Wells

Table 3 - Proposed Use Well and Surrounding Wells

Table 4 - Projected Impacts from Well BIF-430

Figure 1 - General Location Map

Figure 2A and 2B - Currently Used Wells

Figure 3A and 3B - Proposed Use Well and Surrounding Wells

Figure 4 – General Stratigraphy

Appendix A - Well Logs, Current Use Wells

Appendix B - Well Logs, Proposed Use Well and Surrounding Wells

Page 10

Table 1 Current Use Wells

Hydrogeological Impact Study Fryslan Ranch Calf Yard Wind Mill Estates Mabton, Washington

WELL IDENTIFIER	YAKIMA COUNTY PARCEL No.	ADDRESS	PLS LOCATION	WELL TYPE	WRP No.	DATE INSTALLED	WELL DEPTH (feet)	DEPTH TO WATER (feet)	HEAD	PRODUCTION FORMATION
CRW	230909-32001	Hornby Rd., Grandview	NW¼, SW¼, S. 9, T. 9N, R. 23E W.M.	DOMESTIC/LIVESTOCK	EXEMPT	January 1994	100	27	73	Sedimentary
CBW	230917-21001	180 Wasson Rd., Grandview	NW¼, NW¼, S. 17, T. 9N, R. 23E W.M.	DOMESTIC/LIVESTOCK	EXEMPT	February 1982	94	10	84	Sedimentary
VBFL	230918-42001	731 Den Boer Rd., Grandview	NW¼, SE¼, S. 18, T. 9N, R. 23E W.M.	DOMESTIC/LIVESTOCK	EXEMPT	January 1998	65	6	59	Sedimentary
WD1	230918-34001	3761 Forsell Rd., Grandview	SE1/4, SW1/4, S. 18, T. 9N, R. 23E W.M.	DOMESTIC/LIVESTOCK	EXEMPT	March 1987	125	40	85	Sedimentary
WD2	230918-34001	3761 Forsell Rd., Grandview	SE¼, SW¼, S. 18, T. 9N, R. 23E W.M.	DOMESTIC/LIVESTOCK	EXEMPT	Unknown	Unknown	Unknown		

Notes:

PLS = Public Land System

WRP = Water Right Permit

Total Head = Difference between completed well depth and measured depth-to-water

NR = Not Recorded

Table 2 Water Use from Current Wells

Hydrogeological Impact Study Fryslan Ranch Calf Yard Wind Mill Estates Mabton, Washington

WELL IDENTIFIER	Number of Calves	• •	l Consumpition per Calf (gallons per day)		Typical Use Per Day (gallons)		Typical Pumping Rate (gallons per minute)		nsumption lons)		Annual mption
		Summer	Winter	Summer	Winter	Summer	Winter	Summer	Winter	(gallons)	(acre-feet)
CRW	5,000	4	3	20,000	15,000	14	10	3,650,000	2,737,500	6,387,500	19.6
CBW	800	4	3	3,200	2,400	2	2	584,000	438,000	1,022,000	3.1
VBFL	1,500	4	3	6,000	4,500	4	3	1,095,000	821,250	1,916,250	5.9
WD1 & WD2	900	4	3	3,600	2,700	3	2	657,000	492,750	1,149,750	3.5
TOTALS	8,200			32,800	24,600	23	17	5,986,000	4,489,500	10,475,500	32.1

Notes:

Summer = Period from April to September, defined as 182.5 days in length
Winter = Period from October to March, defined as 182.5 days in length

Table 3 Proposed Use Well and Surrounding Wells

Hydrogeological Impact Study Fryslan Ranch Calf Yard Wind Mill Estates Mabton, Washington

WELL IDENTIFIER	YAKIMA COUNTY PARCEL No.	ADDRESS	PLS LOCATION	WELL TYPE	WRP No.	DATE INSTALLED	WELL DEPTH (feet)	DEPTH TO WATER (feet)	TOTAL HEAD (feet)	PRODUCTION FORMATION
Production Well	laaaaa aaaa.		lovens over a company	Tungarage		I I		1 1		<u> </u>
BIF-430	230808-33001		SW¼, SW¼, S. 8, T. 8N, R. 23E W.M.	LIVESTOCK	EXEMPT	June 2015	372	218	154	Saddle Mtn.
Zero to 0.25-mile	T	<u> </u>	I	1	1	T				T = -
ACL-582		·	SE¼, SW¼, S. 8, T. 8N, R. 23E W.M.	DOMESTIC	EXEMPT	April 1997	157	62	95	Sedimentary
BIF-429	230808-34003	610 Christenson Rd., Mabton	SE¼, SW¼, S. 8, T. 8N, R. 23E W.M.	LIVESTOCK	EXEMPT	June 2015	765	296	469	Wanapum
0.25 to 0.50-mile	.		·		_	<u> </u>	· · · · · · · · · · · · · · · · · · ·	 		1
ACE-511	230808-43001	620 Christenson Rd., Mabton	SW¼, SE¼, S. 8, T. 8N, R. 23E W.M.	DOMESTIC	EXEMPT	September 1996	122	50	72	Sedimentary
0.50 to 0.75-mile			<u>, </u>							. _. .
ABL-228	230808-23408	241 Miller Rd., Mabton	SW¼, NW¼, S. 8, T. 8N, R. 23E W.M.	DOMESTIC	EXEMPT	November 1994	100	NR		Sedimentary
ACE-521	230808-23411	271 Miller Rd., Mabton	SW¼, NW¼, S. 8, T. 8N, R. 23E W.M.	DOMESTIC	EXEMPT	June 1996	90	24	66	Sedimentary
ACE-522	230808-23409	371 Miller Rd., Mabton	SW¼, NW¼, S. 8, T. 8N, R. 23E W.M.	DOMESTIC	EXEMPT	June 1996	90	24	66	Sedimentary
ACE-523	230808-23407	371 Miller Rd., Mabton	SW¼, NW¼, S. 8, T. 8N, R. 23E W.M.	DOMESTIC	EXEMPT	July 1996	110	30	80	Sedimentary
ACE-531	230808-23406	371 Miller Rd., Mabton	SW¼, NW¼, S. 8, T. 8N, R. 23E W.M.	DOMESTIC	EXEMPT	July 1996	110	30	80	Sedimentary
BBJ-709	230808-23412	261 Miller Rd., Mabton	SW¼, NW¼, S. 8, T. 8N, R. 23E W.M.	DOMESTIC	EXEMPT	June 2010	82	23	59	Sedimentary
DAWSON	230808-24402	262 Christenson Rd., Mabton	SE¼, NW¼, S. 8, T. 8N, R. 23E W.M.	DOMESTIC	EXEMPT	July 1993	80	47	33	Sedimentary
HARRIGAN	230807-33002	Canal Rd., Mabton	NW¼, SE¼, S. 7, T. 8N, R. 23E W.M.	IRRIGATION	EXEMPT	October 1979	390	95	295	Saddle Mtn.
HAMMERSCHMIDT	230808-44003	722 S. Phillips Rd., Mabton	SE¼, SE¼, S. 8, T. 8N, R. 23E W.M.	DOMESTIC / IRRIGATION	EXEMPT	June 1983	122	61	61	Sedimentary
0.75 to 1-mile						•				
ABX-752	230808-22406	Stettner Rd., Mabton	NW¼, NW¼, S. 8, T. 8N, R. 23E W.M.	DOMESTIC	EXEMPT	July 1995	93	20	73	Sedimentary
ACL-290	230808-12001		NW14, NE14, S. 8, T. 8N, R. 23E W.M.	DOMESTIC	EXEMPT	June 1998	80	15	65	Sedimentary
ACL-830	230808-22400	Miller Rd. & Stettner Rd., Mabton	NW¼, NW¼, S. 8, T. 8N, R. 23E W.M.	DOMESTIC	EXEMPT	June 1997	90	11	79	Sedimentary
ALC-037	230807-31002	Allison Rd. S. End, Mabton	NE¼, SW¼, S. 7, T. 8N, R. 23E W.M.	DOMESTIC	EXEMPT	February 2010	159	31	128	Saddle Mtn.
BHT-360	230809-31002		NW1/4, SW1/4, S. 9, T. 8N, R. 23E W.M.	DOMESTIC	EXEMPT	June 2014	225	99	126	Saddle Mtn.
COMSTOCK		200 Stettner Rd., Mabton	SE¼, NW¼, S. 8, T. 8N, R. 23E W.M.	DOMESTIC	EXEMPT	April 1976	70	NR		Sedimentary
TAGGERID		201 Miller Rd., Mabton	NW14, NW14, S. 8, T. 8N, R. 23E W.M.	DOMESTIC	EXEMPT	June 1997	100	NR		Sedimentary
Greater than 1-mile	•		,				·	1 ,,,,		,
AHK-705	230807-33002		SW1/4, SW1/4, S. 7, T. 8N, R. 23E W.M.	IRRIGATION	G4-27178C	September 2002	380	90	290	Saddle Mtn.
ALF-671		1102 Stettner Rd., Mabton	NE¼, NW¼, S. 7, T. 8N, R. 23E W.M.	DOMESTIC	EXEMPT	June 2000	82	25	57	Sedimentary
ALF-991	230807-33002		SW1/4, SW1/4, S. 7, T. 8N, R. 23E W.M.	IRRIGATION	G4-27178C	March 2006	685	198	487	Wanapum
APK-129	 		SE¼, SE¼, S. 6, T. 8N, R. 23E W.M.	DOMESTIC	EXEMPT	June 2007	185	59	126	Saddle Mtn.
BERTSCH	 		NW14, SW14, S. 9, T. 8N, R. 23E W.M.	DOMESTIC	EXEMPT	October 1976	115	70	45	Sedimentary
BHT-361	230809-22002	i	NW1/4, SW1/4, S. 9, T. 8N, R. 23E W.M.	DOMESTIC	EXEMPT	June 2014	180	48	132	Saddle Mtn.
BIF-445	230209-13006		NW1/4, SW1/4, S. 9, T. 8N, R. 23E W.M.	DOMESTIC	EXEMPT	June 2014	260	91	169	Saddle Mtn.
CARMAN	230807-23400	·	SW¼, NW¼, S. 7, T. 8N, R. 23E W.M.	DOMESTIC	Cert. 1272A	November 1950	95	25	70	Sedimentary

Notes:

PLS = Public Land System WRP = Water Right Permit Total Head = Difference between completed well depth and measured depth-to-water NR = Not Recorded

Table 4 Projected Impacts from Well BIF-430

Hydrogeological Impact Study Fryslan Ranch Calf Yard Wind Mill Estates Mabton, Washington

Radius	Pumping Rate	Т	s	Time	и	W(u)	Drawdown	Annual Consumption
(feet)	(ft ³ /d)	(ft²/d)		(days)			(feet)	(acre-feet)
Minimum Sea	sonal Pumping Rate of 1	7 gpm				•		
1,320	3272.5	465	0.0002	365	0.00051	6.99795	3.92	27.4
2,640	3272.5	465	0.0002	365	0.00205	5.61319	3.14	
3,960	3272.5	465	0.0002	365	0.00462	4.80482	2.69	
5,280	3272.5	465	0.0002	365	0.00821	4.23304	2.37	
7,920	3272.5	465	0.0002	365	0.01848	3.43231	1.92	
Average Pum	ping Rate of 18 gpm					•		
1,320	3465	465	0.0002	365	0.00051	6.99795	4.15	29.0
2,640	3465	465	0.0002	365	0.00205	5.61319	3.33	
3,960	3465	465	0.0002	365	0.00462	4.80482	2.85	
5,280	3465	465	0.0002	365	0.00821	4.23304	2.51	
7,920	3465	465	0.0002	365	0.01848	3.43231	2.04	
Maximum Sea	sonal Pumping Rate of 2	23 gpm						
1,320	4427.5	465	0.0002	365	0.00051	6.99795	5.30	37.1
2,640	4427.5	465	0.0002	365	0.00205	5.61319	4.25	
3,960	4427.5	465	0.0002	365	0.00462	4.80482	3.64	.
5,280	4427.5	465	0.0002	365	0.00821	4.23304	3.21	
7,920	4427.5	465	0.0002	365	0.01848	3.43231	2.60	

Notes:

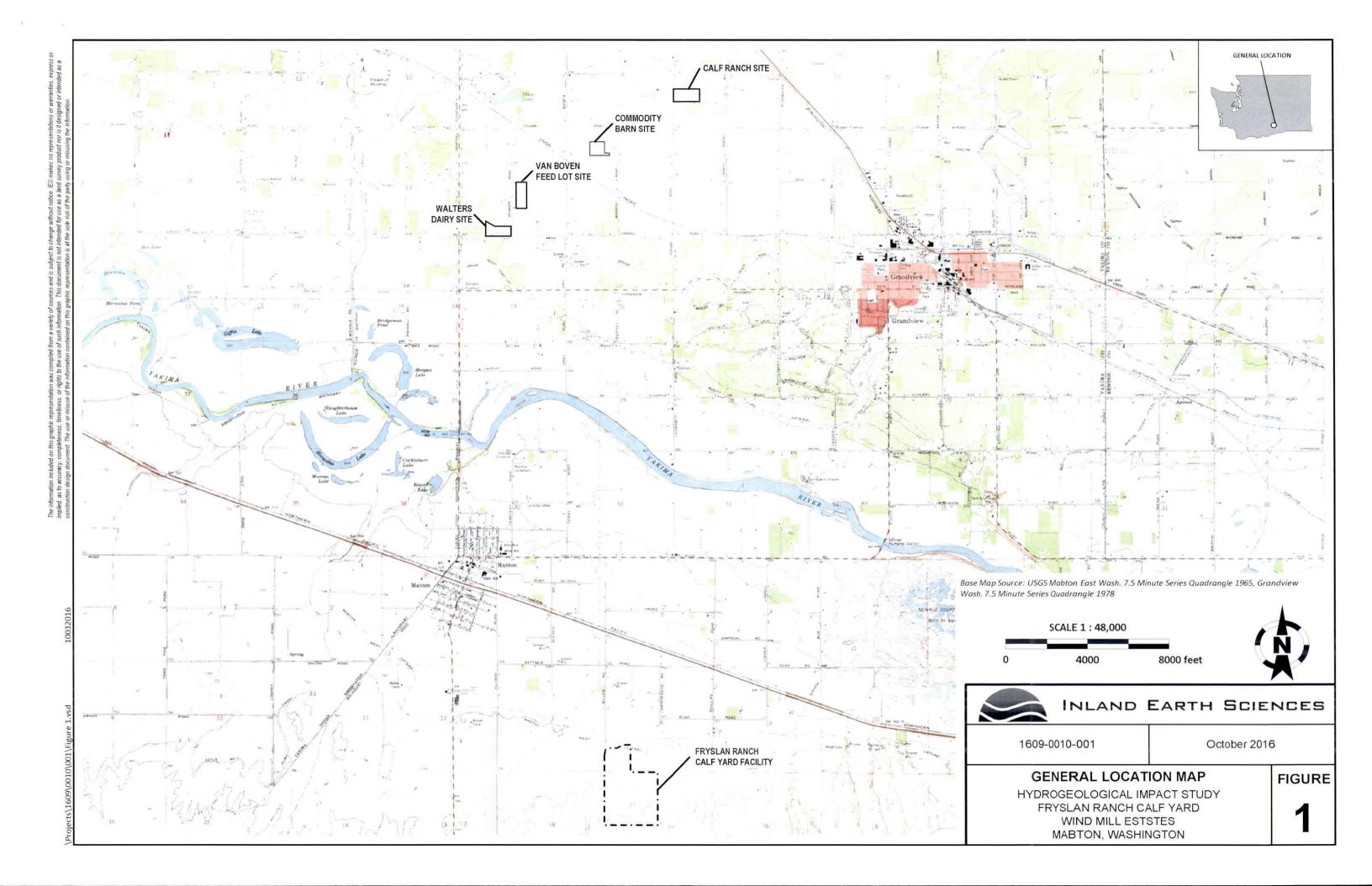
ft³/d = cubic feet per day

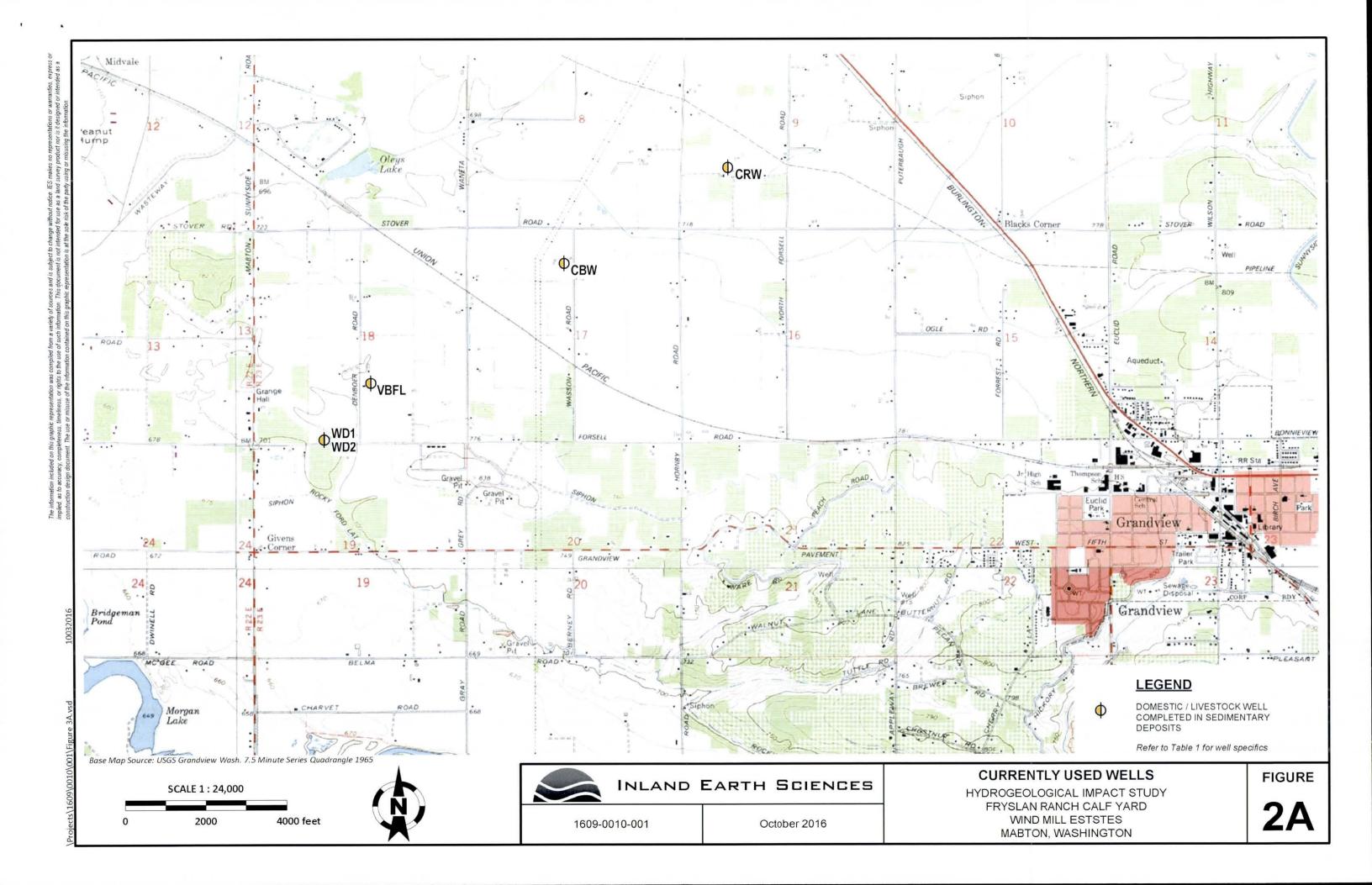
T = Transmissivity in feet square per day

S = Storativity, unitless

u = dimensionless constant, refer to report fo calculation

W(u) = Well function corresponding to the given value of u, unitless





\Projects\1609\0010\0011\Eigilfe 3B.vsd

SCALE 1: 24,000

2000 4000 feet



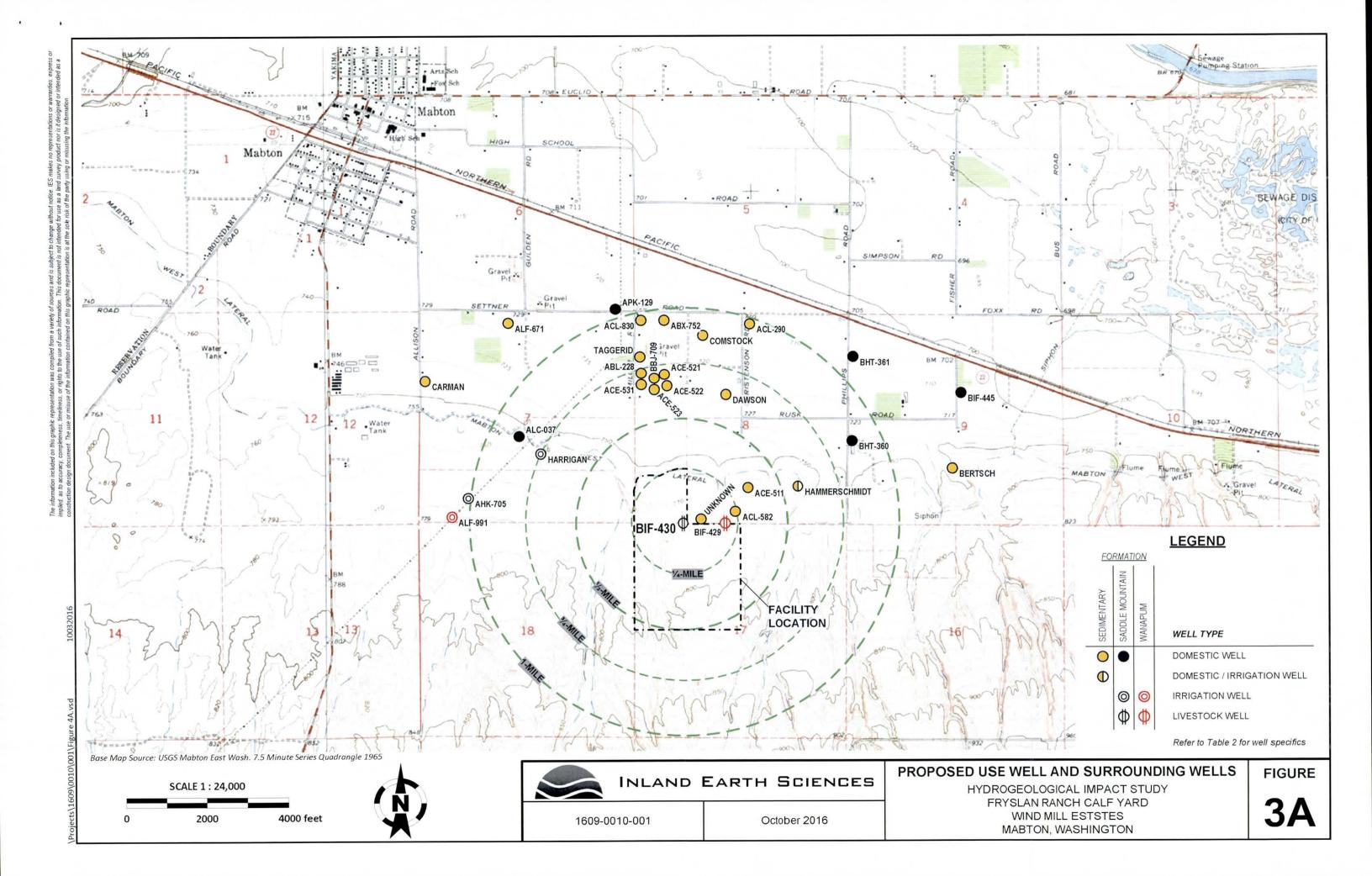
INLAND EARTH SCIENCES

1609-0010-001 October 2016

CURRENTLY USED WELLS

HYDROGEOLOGICAL IMPACT STUDY FRYSLAN RANCH CALF YARD WIND MILL ESTSTES MABTON, WASHINGTON FIC

2



2000

4000 feet

1609-0010-001

October 2016

HYDROGEOLOGICAL IMPACT STUDY FRYSLAN RANCH CALF YARD WIND MILL ESTATES MABTON, WASHINGTON

FIGURE

3B

PERIOD	EPOCH	Sediment Stratigraphy	Basalt Stratigraphy	Hydrogeologic Unit	
<u> </u>	Holocene	Alluvium, alpine glaciation, alluvial fan, dune sand, artificial fill, and peat deposits			
Quaterna	Pleistocene	Alluvium, alpine glacial drift, alluvial fan, Palouse Formation, Lakedale Drift, Lookout Mountain Ranch Drift, Hayden Creek Drift, Kittitas Drift, Evans Creek Drift, unknown continental sedimentary deposits, dune sand, glacial Lake Missoula flood deposits	Quaternary and Pliocene Basalts	Basin-fill deposit	
	Pliocene	Alluvial fan, Ringold Formation, Dalles Formation, Thorpe Gravel, and unknown continental sedimentary deposits			
tiary		Saddle Mountains Basalt flow members and interbeds	Saddle Mountain unit		
	Miocene Formation, Snipes Mountain deposits		Mabton interbed (Mabton Member of the Ellensburg Formation)	Mabton unit	
Te		Ellensburg Formation, Ringold Formation, Dalles Formation, Snipes Mountain deposits, and unknown continental sedimentary deposits	Wanapum Basalt flow members and interbeds	Wanapum unit	
			Vantage interbed (Vantage Member of the Ellensburg Formation)	Vantage unit	
			Grande Ronde Basalt flow members and interbeds	Grande Ronde un	
	Quaternary	Holocene Pliocene Pliocene	Holocene Alluvium, alpine glaciation, alluvial fan, dune sand, artificial fill, and peat deposits Alluvium, alpine glacial drift, alluvial fan, Palouse Formation, Lakedale Drift, Lookout Mountain Ranch Drift, Hayden Creek Drift, Kittitas Drift, Evans Creek Drift, unknown continental sedimentary deposits, dune sand, glacial Lake Missoula flood deposits Alluvial fan, Ringold Formation, Dalles Formation, Thorpe Gravel, and unknown continental sedimentary deposits Ellensburg Formation, Ringold Formation, Dalles Formation, Snipes Mountain deposits, and	Holocene Alluvium, alpine glaciation, alluvial fan, dune sand, artificial fill, and peat deposits Alluvium, alpine glacial drift, alluvial fan, Palouse Formation, Lakedale Drift, Lookout Mountain Ranch Drift, Hayden Creek Drift, Kittias Drift, Evans Creek Drift, unknown continental sedimentary deposits dune sand, glacial Lake Missoula flood deposits Alluvial fan, Ringold Formation, Dalles Formation, Thorpe Gravel, and unknown continental sedimentary deposits Alluvial fan, Ringold Formation, Dalles Formation, Thorpe Gravel, and unknown continental sedimentary deposits Basalt flow members and interbeds Mabton interbed (Mabton Member of the Ellensburg Formation) Formation, Snipes Mountain deposits, and unknown continental sedimentary deposits Vantage interbed (Vantage Member of the Ellensburg Formation) Grande Ronde Basalt flow members and flow members an	

Taken from Figure 6. Correlation chart showing the regional relation between generalized stratigraphy and hydrogeologic units, for the Yakima River Basin. Washington in Jones, M.A., and Vaccaro, J.J., 2008, Extent and depth to top of basalt and interbed hydrogeologic units, Yakima River Basin aquifer system, Washington: U.S. Geological Survey Scientific Investigations Report 2008-5045, 22 p., 5 pls.



INLAND EARTH SCIENCES

GENERAL STRATIGRAPHY

HYDROGEOLOGICAL IMPACT STUDY FRYLAND RANCH CALF YARD WIND MILL ESTATES MABTON, WASHINGTON **FIGURE**

4

1609-0010-001

October 2016



APPENDIX A

WELL LOGS CURRENT USE WELLS

TO

クィ

60

20

'72'

ን፪ '

81'

871

5.9'

90'

94'

WATER WELL REPORT STATE OF WASHINGTON

Application No.

Permit No. . . .

FROM

تم

60

65

70

78

811

90

(1) OWNER: Name Richard S. Brown Address Rt 1 Bx 1519, Prosser, Wa (2) LOCATION OF WELL: County Ya Kieza ____ NW 14 NW 14 Sec 17 T 9 N R 23 WM g and distance from section or subdivision corner (10) WELL LOG: (3) PROPOSED USE: Domestic 💢 Industrial 🗇 Municipal 🗇 Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation. Irrigation 🖺 Test Well 📋 Other 0 FYPE OF WORK: Owner's number of well (If more than one)..... MATERIAL New well Method: Dug Bored | M Cable Driven 🖸 Deepened Reconditioned [Rotery 🔲 Jetted 🔲 (5) DIMENSIONS: Diameter of Well inches. Drilled 94 ft. Depth of completed well..... Sand (6) CONSTRUCTION DETAILS: Brown Sand - Truce of Casing installed: 6 " Diam from 0 n to 70 n Water Beacing but Ti. to ft. to ft. Threaded | Perforations: Yes 🔲 No 📈 Type of perforator used...... SKIP of Greet & Gon Cla SIZE of perforations _____ in. by ____ in. perforations from ft. to perforations from ft. to perforations from ft. to Screens: Yes | No K Pumis Steve White Manufacturer's Name.... Type Model No. Diam. Slot size ____ from ft. to ____ Clay 1 Sand Diam. Slot size _____ from ____ ft to ____ ft. Brown Gravel packed: Yes [No] Size of gravel; Gravel placed from ft. to ft. Surface seal: Yes No B To what depth? 15 R. Material used in seal Ben To ... The ~ 10 No D Did any strata contain unuseble water? Yes Type of water? Depth of strata Method of sealing strata of Seal Carries Xea X Tan Chy (7) PUMP: Manufacturer's Name..... Туре: н.р. (8) WATER LEVELS: Land-surface elevation above mean sea level.... Static level 10 ft. below top of well Date 2-3-22 3 111 Artesian water is controlled by (Cap, valve, etc.) Drawdown is amount water level is lowered below static level (9) WELL TESTS: 19 82 Completed 2 -Was a pump test made? Yes [] No [2] If yes, by whom?...... WELL DRILLER'S STATEMENT: gal./min. with ft. drawdown after hrs. ,. 30 This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level) NAME King Wall Drelling (Type or print) Water Level | Time | Water Level | Time Address Rt 2 Bx 2374, Wanto Wa 98951 [Signed] Patril D. Banana (Well Driller) ate of test Baser test 20 gal/min with 40 ft drawdown after / hrs. License No. 0026 Date 2-4- 1883 Temperature of water............ Was a chemical analysis made? Yes 🔲 No 🌋

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report

File Original and First Copy with Department of Ecology

Second Copy—Owner's Copy
Third Copy—Driller's Copy
3091

WATER WELL REPORT

Start Card No. 461C 0596 W21427 CRW

STATE OF WASHINGTON

Water Right Permit No.

1) OWNER: Name Bonge Hispains	Address 3150 Wilson Hiway
2) LOCATION OF WELL: County Value	.SW x Sec 9 T 3 N, R 23 W.M.
2a) STREET ADDDRESS OF WELL (or nearest address)	
3) PROPOSED USE: Domestic Industrial Municipal DeWater Test Well Other	Formation: Describe by color; character, size of material and structure, and show
4) TYPE OF WORK: Owner's number of well (if more than one)	thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information.
Abandoned New well K Method: Dug Bored C Cable Driven Reconditioned Rolary K Jetted C	Drown domain top down Q le
5) DIMENSIONS: Diameter of well inches Drilled _\Ofeet. Depth of completed well\Oft	amal Pea Branch and dand 80 100
Construction DETAILS: Casing installed:	h.
Perforations: Yes No X Type of perforations	
Screens: Yes No Manufacturer's Name	
Type Model No	
Diam. Slot size from ft. to	n. FEB 1 7 1994
Gravel packed: Yes No Size of gravel	m.
- <u> </u>	ft.
Did any strata contain unusable water? Yes No X Type of water? Depth of strata	
Method of sealing strata off	
Type:	` !
Artesian pressure lbs. per square inch_Date Artesian water is controlled by(Cap, valve, etc.))	
WELL TESTS: Drawdown is amount water level is lowered below static leve Was a pump test made? Yes No I fryes, by whom?	Work started 3.5.19. Completed 3.5.19 WELL CONSTRUCTOR CERTIFICATION:
	t 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.
from well top to water level) Time Water Level Time Water Level Time Water Level	NAME Blue Water D. M. MARS. (PERSON, FIRM, OR CORPORATION) ONE OR PRINT)
Date of test	- Address 7.0, Box 70 Froder WA
Bailer test gal. / min. with ft. drawdown after hr Airtest gal. / min. with stem set at ft. for hr	Contractor's
Artesian flow g.p.m. Date Temperature of water Was a chemical analysis made? Yes No	No. DIVE WD OF TO Date ON

(USE ADDITIONAL SHEETS IF NECESSARY)



EC://050.1-20 (10/87) /1329-

File Original and First Copy with Department of Ecology Second Copy—Owner's Copy
Third Copy—Driller's Copy

W103653

Water Right Permit No.

STATE OF WASHINGTON

Start Card No			
UNIQUE WELL I	. b . i	#	<u>VBF</u> L

gu.	OWNER: Name HARRY VAN BOVEN	Address 731 DEN BOEN, GRANDVIR
	LOCATION OF WELL: County YAKI MA	NE "SE" soc 18 + 9 N. R23EWM
(28)	STREET ADDDRESS OF WELL (or nearest address) WANE	
12		1
(3)	PROPOSED USE: Domestic Industrial Municipal DeWater Test Well DeWater	(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION
	Do Dorracio	Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated.
(4)	TYPE OF WORK: Owner's number of well (if more than one).	with at least one entry for each change of information. MATERIAL FROM TO
	Abandoned New well Method: Dug D Bored D Deepened D Cable D Driven D	Sor L 0 10
	Reconditioned Rotary Jeffed	SILM SANOY CLAY 10 32
(5)	DIMENSIONS: Diameter of well inches:	HARD BROWN Chay 32 45
•	Drilled 6.5 feet. Depth of completed well 6.5 ft.	MED. BLACK BASALO 45 51
(6)		(H20) BROWN POROUS BASAGE 51 62
(4)	Casing installed: 6 Diam. from +1 /2 11.10 45/211	TAND (3CACK (SASALT 62 6)
	Wolded String International In	
	Perforations: Yes No No	Lys.
	Type of perforator used	
	SIZE of perforations in. by in. by	<u></u>
	perforations fromft. toft.	
•	perforations fromft. toft.	
<u></u> :	Screens: Yes No D	
	Manufacturer's Name	
_	Type Model No	Control of the contro
Ä	iam ft. toft.	
	Diam Slotieize Irom H. (o th.	3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
	Gravel packed: Yes No Size of gravel	MAR (L. 9 GEO)
-i,	Grave) placed from	1907
	Surface seal: Yee No To what depth? 11.	
	Material used in seat RENTONITA	CENTRAL REGION CORRE
	Did any strate contain unusable water? Yes No 2 Type of water? Depth of strate 2	No.
	Method of sealing strate of	
(7)	PUMP: Manufacturer's Name	
•	Type:H.R	
	WATER LEVELS: Land:auriace-elevation above mean sea level 1t.	
,	Static level	
	Artesian pressurelbs. per squere inch. Date	
	Artesian water is controlled by (Cap, valve, etc.))	Work started /-21-9 / 19. Completed /-22- 19.9
(9)	WELL TESTS: Drawdown is amount water level is lowered below static level	Work started /-21-94, 19. Completed 1-22 ; 19.7.
,	Was a pump test made? Yes No. If yes, by whom?	WELL CONSTRUCTOR CERTIFICATION:
	H 19 17 16	I constructed and/or accept responsibility for construction of this well and its compliance with all Washington well construction standards
	n n	Materials used and the information reported above are true to my bes
	Recovery data (time taken as zero when pump terned off) (water level measured from well top to water level)	knowledge and belief.
	Time WaterLevel Time WaterLevel Time WaterLevel	NAME FLUE STAR DRILLING
		(PERSON, FIRM, OR CORPORATION) . (TYPE OR PRINT)
		Address DAYTON, WA 99328
	Date of test	BANA 3-6"
1: 1	Bailer testgal./min. withft, drawdown afterhrs.	(Signed) License No. 2094
	Airtest, 60 gal./min. with stem-set at 60 ft. for hrs.	Contractor's Registration
	Artestan flow g.p.m. Date	No. FIVE SON 677 MB Date 1-73- 1970
	Temperature of water Was a chemical analysis made? Yes No	(USE ADDITIONAL SHEETS IF NECESSARY)

original and First Copy with artment of Ecology cond Copy — Owner's Copy inited Copy — Driller's Copy

WATER WELL REPORT STATE OF WASHINGTON

pplication	No:.	
ermit No.		 VVD

1) OWNER: Name Edward Welfers	Address RT. 1 Box 1491 GRA	الدارين ال	Dill.
LOCATION OF WELL: County YAKIMA	SE " SU" Sec / B T	9 N. R.	2. ∂ .w.m
bg and distance from section or subdivision corner	& 400 E OF THE SW	Color	<u>-e</u>
3) PROPOSED USE: Domestic D Industrial [Municipal [Irrigation [Test Well [Other [(10) WELL LOG: Formation: Describe by color, character, size of materic show thickness of aquifers and the kind and nature of	l and stru	cture, and
4) TYPE OF WORK: Owner's number of well.	stratum penetrated, with at least one entry for each c	hange of	formation
New well Method: Dug Dored	MATERIAL	FROM	TO
Deepened 🗎 Cable 🛭 Driven 🗋		7	73
Reconditioned Rotary Jetted	SALOG CLAY	75	7-3
5) DIMENSIONS: Diameter of well inches	- BROWN SANG-	90	113
Drilled Depth of completed well 122 ft.	Copar ET	115	
6) CONSTRUCTION DETAILS:	SICECE	;	
Casing installed: Djam from ft. to the			
Threaded		ļ	<u> </u>
Welded D. La." Diam. from Q. ft. to/20t		 `	
Perforations: Yes No			
Type of perforator used		<u> </u>	
SIZE of perforations in. by in.			
perforations from anagement, ft. to any anagement its			
perforations from ft. to ft.		·	
Screens: Yes No (2)	·		
Type Model No.			<u> </u>
Diam Slot size from ft. to ft.	<u> </u>		
Diam. Slot size from ft.			
Gravel packed: Yes No D Size of gravel;			
Gravel placed from ft. to ft:			
Surface seal: Yes W No [] To what, depth? 25 ft.			
Material used in seal Estaute			
Did any strata contain unusable water? Yes No 🗹	Some 44'	<u> </u>	
Type of water? Depth of strata Method of sealing strata off	MEGEIMEN	 	
		 	
7) PUMP: Manufacturer's Name BERL	100 100 100 100		
	MAR 19 1987 - 1-11	·	
8) WATER LEVELS: Land-surface elevation above mean sea level.			
tatic level	DEPARTMENT OF ECOLOGY CENTRAL REGION OF FIGE		
Artesian water is controlled by	CENTRAL RESIGNS OF THE		
(Cap, valve, etc.)			
9) WELL TESTS: Drawdown is amount water level is lowered below static level	Work started 1 19 Completed	//6	198
Vas a pump test made? Yes 🗆 No 🗗 If yes, by whom?	WELL DRILLER'S STATEMENT:		
ield: gal./min. with ft. drawdown after hrs.]		
	This well was drilled under my jurisdiction true to the best of my knowledge and belief.	angothis	report 1
ecovery data (time taken as zero when pump turned off) (water level	11/1/2/ ///	/ /_ s.	/ .
measured from well top to water level) Time Water Level Time Water Level Time Water Level	NAME WATER IS WET !!	Pull	Ng
Time Water Level Time Water Level Time Water Devel	(Person, firm, or corporation)	Type or p	rant/
	Address # 2 Dox 245/-H	CALL	UNIE
	1 2/1/	lo.	•
ate of test	[Signed] Suallo K. Affai	Luci.	
aler test 30 gal/min with 5 ft. drawdown after hrs.	(Well Diller)	.	1 0
emperature of water	License No. 05/6 Date 5	1109 1	X



APPENDIX B

WELL LOGS PROPOSED USE WELL AND SURROUNDING WELLS

WATER WELL REPORT	Notice of Intent No. 414	19457 AHK /
Original & 1st copy - Ecology, 2nd copy - owner, 3rd copy - driller	Unique Ecology Well ID Tag No. AHI	2705
Construction/Decommission ("x" in circle)	Water Right Permit No. 64 2717	20
Construction O Decommission ORIGINAL CONSTRUCTION Notice		
of Intent Number	Property Owner Name Steve VAI	100ken
PROPOSED USE: Domestic Industrial Municipal	Well Street Address 2210 WAne	eta Rd
☐ DeWater ☑ Irrigation ☐ Test Well ☐ Other	City <u>Grandview</u> County:	VARIMA
TYPE OF WORK: Owner's number of well (if more than one) New Well Reconditioned Method: Dug Bored Driven	Location SE 1/4 1/4 254/4 Scc 7 T	wn 8 RASEWM
Deepened Cable Rotary Jetted	Lat/Long: Lat Deg	wwm "
DIMENSIONS: Diameter of well 10 inches, drilled 386 ft.	(s,t,r still	\sim
Depth of completed well 385 ft.	REQUIRED) Long Deg 1 Tax Parcel No.	Long Min/Sec
CONSTRUCTION DETAILS Casing Welded Diam. from 2 ft. to 130 ft.		ON PROCEDURE
Installed: Diam. from 1 ft. to 380 ft.	Formation: Describe by color, character, size of ma	aterial and structure, and the
	kind and nature of the material in each stratum pen entry for each change of information. Indicate all v	
Perforations: NYes No	(USE ADDITIONAL SHEETS IF NECESSARY.)	
Type of perforator used Torch SIZE of perfs 4 in. by 10 in. and no. of perfs 400 from ft. ft. to 300 ft.	MATERIAL	FROM TO
Screens: Yes No K-Pac Location		0 3
Manufacturer's Name	Clay Brown Ford & Growe) lemented	3 70 70 125
TypeModel No	Pasalt Brober Black	125 130
Diam. Slot Size from ft. to ft. Diam. Slot Size from ft. to ft.	Rage H Hard Black	130 181
Gravel/Filter packed: Yes No Size of gravel/sand	Francistone - water	181 227
Materials placed fromft. toft.	Clau Bloosh-gray	227 306
Surface Seal: X Yes No To what depth? 22 ft	Basalt Hard Black	306 390
Materials used in seal Benonste Holeghia		
Did any strata contain unusable water? Type of water? Depth of strata		
Method of sealing strata off	<u> </u>	
PUMP: Manufacturer's Name		
WATER LEVELS: Land-surface elevation above mean sea level ft. Static level 90 ft. below top of well Date 9-15-02		
Artesian pressurelbs. per square inch		
Artesian water is controlled by (cap, valve, etc.)		
WELL TESTS: Drawdown is amount water level is lowered below static level.	 	·
Was a pump test made? Yes You If yes, by whom?	OF ECOLOGIC	
Yield: gal /min. with ft. drawdown after hrs. Yield: gal /min. with ft. drawdown after hrs.	Received	
Yield: gal/min. with ft. drawdown after hrs.	SEP 3 0 2002	
Recovery data (time taken as zero when pump turned off)(water level measured from well top to water level)	· Q 8	
Time Water Level Time Water Level Time Water Level	A DEGICAL	·
Date of test		<u> </u>
Bailer testgal/min. withft. drawdown afterhrs. Airtest 300 gal/min. with stem set at 320 ft. for 3 hrs.		
Artesian flowg.p.m. Date	Start Date 9-1-02 Completed Da	ate <u>9-15-02</u>
Temperature of water 18 Was a chemical analysis made? ☐ Yes 12 No	<u> </u>	
WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsible washington well construction standards. Materials used and the information of	onsibility for construction of this well, and its control above are true to my best knowledge a	compliance with all nd helief.
Driller Engineer Trainee Name (Print)		ZICLING
Driller/Engineer/Trainee Signature	- Address POBOX 6834	
Driller or Trainee License No. 2219	Address 1	WA 99336
	City, State, Zip <u>REIVIVE (0)</u> Contractor's 2.453 x 1903 1	9/15/02
If trainee, licensed driller's Signature and License no.	Registration NoKUDED 44783C	ate 1/5/02
Callement a min Transma rive	Ecology is an Equal Opportunity Employer.	ECY 050-1-20 (Rev 4/01)

			ALCU
WATER WELL REPORT Original & 1 st copy - Scology, 2 nd copy - owner, 3 rd copy - driller	CURRENT Notice of Intent No. <u>W34269</u>		
sirstifum st Prolice Y	Unique Ecology Well ID Tag No.	037	
Construction/Decommission ("x" in.circle) 371806	Water Right Permit No.		
O Decommission ORIGINAL INSTALLATION Notice	-	-	- 11.7
of Intent Number	Property Owner Name VAn Roven Ho	HOING CO	9. ~ ~ <u>~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~</u>
PROPOSED USE: Domestic Industrial Municipal	Well Street Address County County 3		
☐ DeWater ☐ Imigation ☐ Test Well ☐ Other	City Mahton County 3	9- 70K	ZDORI
TYPE OF WORK: Owner's number of well (if more than one)	Location 1 1/4-1/4 5 20 1/4 Sec 7 Twn 8	R_223 = 254	circle one
Method □ Dug □ Bored □ Driven □ Deepened □ Cable ■ Rotary □ Jetted	Lat/Long (s, t, r Lat Deg Lat	Min/Sec _	<u> </u>
Dimensions: Diameter of well inches, drilled ft. Depth of completed well ft.	Still REQUIRED) Long Deg Long	ng Min/Sec	:
	Tax Parcel No. 230807-31002		
CONSTRUCTION DETAILS Casing Welded Diam. from + 2 ft. to 141 ft. Installed: Liner-installed ft.			
Li Inreaded Prame from ft; to ft.	CONSTRUCTION OR DECOMMISSION		
Perforations: ☐ Yes 💢 No	Formation: Describe by color, character, size of material and nature of the material in each stratum penetrated, with at least	one entry for ca	
Type of perforator used	information. (USE ADDITIONAL SHEETS IF NECES		
Screens:	MATERIAL	FROM.	TO
Manufacturer's Name	Top soil, sporty, silt	19	19
Type Model No. Diam. Slot size from ft. to - ft	Silty sandy gravels	87	147
Diam Slot size from ft. to ft. Diam Slot size from ft. to ft.	black busalt	14/	151
Gravel/Filter packed: ☐ Yes M No ☐ Size of gravel/sand	MACHE DUSTON	1-11	/ / /
Materials placed from ft. to ft.			
Surface Seal: Y Yes No To what depth? / /8 ft.			
Material used in sealBendon; Fe			
Did any strata contain unusable water?			
Method of sealing strata off		ļ	
PUMP: Manufacturer's Name			
PUMP: Manufacturer's Name	\$100 FM \$10 PM 10		
WATER LEVELS: Land-surface elevation above mean sea levelff.	MECEIVE		
Static level ft. below top of well Date 2/24/10	MADOR		
Artesian pressure lbs. per square inchr Date	MAK U.5 ZUIU		
Artesian water is controlled by (cap, valve, etc.)	DEPARTMENT OF ECOLOGY - CENTRAL RE	WHEN APPEN	ļ
WELL TESTS: Drawdown is amount water level is lowered below static level	per continuent or control - octal tar to	WEST CLASS	
Was a pump test-made? ☐ Yes ☐ No If yes, by whom?		·	•
Yield: gal/min, with ft. drawdown after hrs. Yield: gal/min, with ft. drawdown after hrs.			
Yield: gal/min. with fl. drawdown after hrs.		ļ	
Recovery data (time takén as zero when pump turned off) (water level measured from well top to water level)	,		-
Time- Water Level Time Water Level Time Water Level			
			
Date of test		<u> </u>	<u> </u>
Bailer test gal /min, with ft. drawdown after hrs.	•,		
Airtest / gal/min. with stem set at 147 ft. for / hrs.			
Artesian flow g.p.m. Date		<u> </u>	<u> </u>
Temperature of water Was a chemical analysis made?	Start Date 2/28/10 Complete	ed Date 2	29/10
WELL CONSTRUCTION CERTIFICATION L	· · · · · · · · · · · · · · · · · · ·		 _
WELL CONSTRUCTION CERTIFICATION: I constructed and/or acc Washington well construction standards. Materials yused and informatic	ept responsibility for construction of this well, and a reported above are true to my heat tendulation of	I its complia	nce with all
Driller Engineer Traince Name (Print) Security 1900	01 \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Wev0r	ise OX
Driller/Engineer/Trainee Signature/	Address 2019 Butter Long	HIL	- N-1-(-)
Oriller or trainee License No. 70/6	City, State, Zip Rhick 4/A 973	52	
If TRAINEE,	Contractor's		_
Driller's Licensed No.	Registration No. Bluesen 942 Rm	D. 3-	3-10

Ecology is an Equal Opportunity Employer.

Driller's Signature _

			AL EC
WATER WELL REPORT Original & It copy - Ecology, 2nd copy - owner, 3rd copy - driller	CURRENT Notice of Intent No. <u>UI 2690</u>	03	ALF6
Construction/Decommission ("x" in circle) 318100	Unique Ecology Well ID Tag No	F671	
Construction	Water Right Permit No.		
O Decommission ORIGINAL INSTALLATION Notice	Property Owner Name Anna C	banies	•
of Intent Number	Well Street Address 762 Fee		
PROPOSED USE: Domestic Industrial Municipal			
□ DeWater □ Irrigation □ Test Well □ Other	City Maketin County_		
TYPE OF WORK: Owner's number of well (if more than one)	Location/15/1/4-1/45/1/1/4 Sec 7 Twn 8	716 R <i>AB</i> 🚟	AT circle
New well □ Reconditioned	Lat/Long (s, t, r Lat Deg I	WW	M one
DIMENSIONS: Diameter of well	Still REQUIRED) Long DegI	Long Min/Se	c
CONSTRUCTION DETAILS	Tax Parcel No. 230807-2/4/5	2	
Casing Welded Diam. from #1 ft. to 8.1 ft. installed: Liner installed Diam. from ft. to ft. to ft.			
Installed:	CONSTRUCTION OR DECOMMISSI	ION PROCEDU	JRE
Perforations: Yes No	Formation: Describe by color, character, size of material a		
Type of perforator used	nature of the material in each stratum penetrated, with at le information. (USE ADDITIONAL SHEETS IF NEC		ach change of
SIZE of perfsin, byin, and no. of perfsfromft. toft.	MATERIAL	FROM	то
Screens: Yes No C K-Pac Location	prt	0	2
Manufacturer's Name	lorge grovels.	- Z	11
ype Model No Diam Slot size from ft. to ft.	Brown silty Sand	177	21
Diam. Slot size from ft to ft.	Small Grovel, Brown clays	2.1	30
ravel/Filter packed: 🗆 Yes 🙎 No 🕒 Size of gravel/sand	31/tv fand	30	360
Atterials placed from ft. to ft.	Cause Sand 13/1/4	36	68
urface Seal: Yes No To what depth?ft	Medium Gravels/Water	Cass	82
daterial used in seal Bentonite chips	~ 3061m	,)	
Did any strata contain unusable water?	""		
Sype of water? Depth of strata			
Method of sealing strata off			1
PUMP: Manufacturer's Name Type: H.P.			
WATER LEVELS: Land-surface elevation above mean sea levelft.			
Static level 24.8 :ft. below top of well Date	RECE	IAED	·
Artesian pressure			·
Artesian water is controlled by(cap, valve, etc.)	JUN O 9	<u> 1 4010 </u>	1
WELL TESTS: Drawdown is amount water level is lowered below static level			
Was a pump test made? 🗆 Yes 🛮 🔏 No If yes, by whom?	nedaraent of Ecology -	CENTRAL REGIONAL OFF	ilit
rield:gal./min. withft. drawdown afterhrs.			1
rield: gal/min. with ft. drawdown after hrs. rield: gal/min. with ft. drawdown after hrs.			4
Recovery data (time taken as zero when pump turned off) (water level measured from well			<u> </u>
np to water level).			
ime Water Level Time Water Level Time Water Level			
	<u> </u>		
Date of Great		+	+
Date of test			+
sailer testgal/min. withft. drawdown afterhrs. irrest_30gal/min. with stem set atff. forhrs.			
			
Artesian flow g.p.m. Date			
emperature of water 65 Was a chemical analysis made? Yes Ao	Start Bata (a (2/10)	loted Sets Z	2/2- 1
ELL CONSTRUCTION CERTIFICATION: I constructed and/or ac	ecept responsibility for construction of this well,	eleted Date <u>6/2</u> and its complia	/
ashington well construction standards. Materials used and the information	ion reported above are true to my best knowledge	and belief.	h
Briller Engineer Trainee Name (Print)	Drilling Company /Slage Star !	Zert entre	<u>~15e255</u>
Her/Engineer/Trainee Signature + wast Harpen	Address 2019 Butter	Loop	
ller or trainee License No. 2910	City, State, Zip R. Ch. Con d (4)	11- 90	354
TRAINEE,	Contractor's		- 1
ilfer's Licensed No.	Registration No. 2) Cure Seria 9400	20(Date	4-11
riller's Signature	Eastern in	on Equal Occasion	-in-Faral

×rt.
ep
₹ 8
×
formation on this
S t
5
nati
P. D.
Ē
the
d/or
anc
ata
Je D
.y
rant
Warr
\vdash
Š
does
gyd
Ö
Щ Ш
t of
ient

ALF991

Please print, sign and return to the Department of Ecology

Water Well Report Original - Ecology, 1st copy - owner, 2nd copy - driller E (0 1 0 6 7) Construction/Decommission 91 73 6 Construction Decommission ORIGINAL INSTALLATION Notice of Intent Number PROPOSED USE: Domestic Industrial Municipal Other Irrigation Test Well Other TYPE OF WORK: Owner's number of well (if more than one) New well Reconditioned Method: Dug Bored Driven Cable Rotary Jetted Dimensions: Diameter of well inches, drilled ft. Depth of completed well 98 ft. Depth of completed well 98 ft. CONSTRUCTION DETAILS	Current Notice of Intent No. W 21056 Unique Ecology Well ID Tag No. ALF Water Right Permit No. G4-271 Property Owner Name 5+eve 5 Well Street Address 1320 ft Fost 466 City 10 a 2 to 2 County 39 Location E1/4-1/4561/4 Sec 7 Twn 9 Lat/Long (s, t, r Lat Deg Lat still REQUIRED) Long Deg Lo Tax Parcel No.	TSC Jan Constant Sec. 7 A off north Sec. 7 Lyaki ma R236 circle www.m one Min/Sec ng Min/Sec
Casing Welded 2 "Diam. from # ft. to 12.5. ft. Installed: Liner installed 8 Diam. from # 12. ft. to 3.00. ft. Diam. from ft. to 7.00. ft. Type of perforations: Yes W.No	CONSTRUCTION OR DECOMMISSIO Formation: Describe by color, character, size of material and nature of the material in each stratum penetrated, with at least information indicate all water encountered. (USE ADDITION	IN PROCEDURE structure, and the kind and one entry for each change of
SIZE of perfsin. by in. and no. of perfsfrom ft. toft.	MATERIAL	FROM TO
Screens: Yes No K-Pac Location	Brown Soud	0 25
Manufacturer's Name	Brown S. LT. Soul	25 50
Type Model No fl. to ft.	Course Glaveh	50 125
Diam. Slot size from ft. (o ft.	GRAN BASALT	125 170.
Gravel/Filter packed: Yes X No Size of gravel/sand	Broken BasalT	170 175.
Materials placed fromft. toft.	BROWN Clay	175 205
Surface Seal: X Yes No To what depth? 18 ft.	Bhus Chesi Chax.	205 250
Material used in seal Bentonite	Bhun GREEN SAND WITH CLAX HIX	250 300
Did any strata contain unusable water/	Bluffer Day Basalt	300 360.
Type of water? HIGHN Tonte / Sond Depth of strata 50-125/225-300	CRAW BASALT	360 410
Method of sealing strata off CASHO + Conex led	Black Bosset	410 460
PUMP: Manufacturer's Name	Black+GRAY Broken BASALT	460 495
Туре:	RI DR ROLL	495 570
WATER LEVELS: Land-surface elevation above mean sea levelft.	BACK BASAIL	520 590.
Static level 198' ft. below top of well Date 3-14-06	01 1/ 0 18 0 11	
Artesian pressure!bs. per square inch Date	Black Broken BasAFT	590 845 845 680
Artesian water is controlled by	DI WALK DASAL -	
(cap. valve, etc.)	Black Dis Ken BASTA	680 685
WELL TESTS: Drawdown is amount water level is lowered below static level		-3-
Was a pump test made? Tyes X No If yes, by whom?		20.
Yield: gal/min. with ft. drawdown after hrs.	——————————————————————————————————————	17
Yield:gal/min. withft. drawdown afterhrs. Yield:gal/min. withft. drawdown afterhrs.	——————————————————————————————————————	
Recovery data (time taken as zero when pump turned off) (water level measured from well	RECEIVED OF	
top to water level)	TECEIVED SE	<u> </u>
Time Water Level Time Water Level	MAR 2.2.2006	<u> </u>
	MAR 2 2 2006	
Pro-stars	DEPARTMENT OF FLOTOR	
Date of test	WELL DO 1 190 Harr	
Bailer testgal/min. withft. drawdown afterhrs. Airtestfor	2027 1300	GiDi
	· · · · · · · · · · · · · · · · · · ·	
Artesian flow g.p.m. Date Temperature of water 57° Was a chemical analysis made?		
was a chemical analysis made? [1] Yes [4] No	Start Date 02-18-06 Complete	d Date 63-14-06
WELL CONSTRUCTION CERTIFICATION: I constructed and/or acc Washington well construction standards. Materials used and the informatic Driller/Engineer/Trainee Name (Print) Driller/Engineer/Trainee Signature Driller or trainee License No.	cept responsibility for construction of this well, and on reported above are true to my best knowledge an Dniling Company Blue for Evergranders 2019 Butter Kook	its compliance with all ad belief.
ITTRAINEE, 42820	Contractor's	
Driller's Licensed No.	Registration No Biu 2550 965 KG	Date 03-15-106
Driller's Signature	- Ecology is an Equal Opportunity Employer.	ECY 050-1-20 (Rev 2/03)

TATE OF WASHI DEPARTMENT OF CONS AND DEVELOPM WELL LOG	ING FOL	
WELL LOG	ERVATION	
	Appli.	#1 dan
Date Nov. 17 1950		#1272A
Record by Owner	0610	TIC CA
Source Driller record	-	
	= 	-
Location: State of WASHINGTON		
County Yakima	.	
Area		
Map		
SE 1/ NE 1/2 sec. 7 T. 8 N., R. 23 E.	DIAGRAM	OF SECTION
Drilling Co.	·	
Address		
Method of Drilling	Date	
Owner Bert Carman	₩ Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	— .— lУ <u></u>
Address Mabton, Washington		
Land surface, datum ft. above		
below —		
Cokes-	THICKNES	
tation Material	(feet)	DEPTH (feet)
(Transcribe driller's terminology literally but paraphrase a paterial water-bearing, so state and record static level if reported, unface datum unless otherwise indicated. Correlate with stratigrating log of materials, list all casings, perforations, screens, etc.) No log available	aphic column, if	easible, Pollow-
Pump test:		- '
		! ———
Dim: 95' x 6"		
Dim: 95' x 6"		-
Dim: 95' x 6" SWL: 25'		- - - -
Dim: 95' x 6" SWL: 25' D.D. 56'		
Dim: 95' x 6" SWL: 25' D.D. 56' Yield 50 g.p.m.		
Dim: 95' x 6" SWL: 25' D.D. 56' Yield 50 g.p.m. Casing: not known		
Dim: 95' x 6" SWL: 25' D.D. 56' Yield 50 g.p.m.		
Dim: 95' x 6" SWL: 25' D.D. 56' Yield 50 g.p.m. Casing: not known		
Dim: 95' x 6" SWL: 25' D.D. 56' Yield 50 g.p.m. Casing: not known		
Dim: 95' x 6" SWL: 25' D.D. 56' Yield 50 g.p.m. Casing: not known		
Dim: 95' x 6" SWL: 25' D.D. 56' Yield 50 g.p.m. Casing: not known		
Dim: 95' x 6" SWL: 25' D.D. 56' Yield 50 g.p.m. Casing: not known		
Dim: 95' x 6" SWL: 25' D.D. 56' Yield 50 g.p.m. Casing: not known		
Dim: 95' x 6" SWL: 25' D.D. 56' Yield 50 g.p.m. Casing: not known		

CARMAN

File	Original	and I	First !	Copy-with
, Dep	artment	of Eco	logy	
Thi	artment ond Copy od Copy –	– Dril	ler's	сору Сору

WATER WELL REPORT

Applicatio HARRIGAN

Second Copy — Owner's Copy Third Copy — Driller's Copy STATE OF V	VASHINGTON Permit No.		
(1) OWNER: Name HORPIGAN FARMS		ימונ '	
2) LOCATION OF WELL: County: Vakima	XE 4 sec. 7 T.	N., R.	2.3. w.m.
aring and distance from section or subdivision corner	190 acres		
(3) PROPOSED USE: Domestic Industrial Municipal	(10) WELL LOG:		
Irrigation Test Well Other	Formation: Describe by color, character, size of materi show thickness of aquifers and the kind and nature of	ál and stru	cture, and
(4) TYPE OF WORK: Owner's number of well	show thickness of aguiters and the kind and nature of stratum penetrated, with at least one entry for each	the materi	at in each formation.
(4) TYPE OF WORK: Owner's number of well (if more than one)	MATERIAL	FROM	TO.
Deepened	GREEN Shale, Shad stone	<u>a85</u>	390
Reconditioned Rotary Jetted	SAND, MICH	 	
(5) DIMENSIONS: Diameter of well	STRAFA Above 285"	1	
Drilled 390 it Depth of completed well 385 ft.	Unknows		
(6) CONSTRUCTION DETAILS:	Ain Fost	 	<u> </u>
Casing installed: 8 " Diam. from +13n to 390n	= 77/N - HD01		· · · · · · · ·
Threaded ft. to ft.		 	-
Welded Diam. from		1	· · · · · · · · · · · · · · · · · · ·
Perforations: Yes No. 10066			
Type of perforator used			
SIZE of perforations from the fit to the fit.		 	!
perforations from 200 it to 20 it			
		 	
Screens: Yes D No 7			,
Manufacturer's Name Type Model No.		<u> </u>	·
Diam. Slot size from ft, to ft.		1	
Diam: Slot size from ft. to ft:		 	
Gravel packed: Yes No Size of gravel:		-	. ·
Gravel placed from ft. to ft.	e (
Surface seal: Yes No D To what depth? ft.			·
Material used in seal FEV/0/5K4 //SAtt/Col		 	<u> </u>
Did any strata contain unusable water? Yes No.			
Method of sealing strata off			•
(7) PUMP: Manufecturer's Name			
Type: HP			!
(8) WATER LEVELS: Land-surface elevation			·
Static level 5 tt. below top of well Date 10-0-0		1	
Artesian pressure			
Artesian water is controlled by (Cap, valve, etc.)			
(9) WELL TESTS: Drawdown is amount water level is lowered below static level	10 11 512	·	1 171
Was a pump test made? Yes \(\) No \(\) If yes, by whom?	Work started 10 19 Completed 1	002	Z., 19.ZZ
Yield: gal/min. with ft. drawdown after hrs.	WELL DRILLER'S STATEMENT:		•
9 5 n n	This well was drilled under my jurisdiction true to the best of my knowledge and belief.	and this	report is
Recovery data (time taken as zero when pump turned off) (water level	7 - 1 > //-	-	. •
measured from well top to water level) Time Water Level Time Water Level Time Water Level	NAME T. LEWIS DRIlling	-1-176	
The Trace Access Annual Access	(Person, firm, or corporation)	(Type or p	riņt)
	Address Sol 1685 Lifty Hill	AC:	
Nada at and	The son A harris		• .
Date of test gal/min. with ft drawdown after hrs.	[Signed] (Well Driller)		
Artesian flowg.p.m. Date	10 In-	26	N.C.
Temperature of water	License No Date		., 19.2.

sport.	
s Well R	
on on thi	
Informati	
nd/or the	
e Data ar	•
Varranty th	
oes NOT W	
<u>8</u>	
artment of E	

Date of test / /

Baller test gal/min. ft. drawdown after hir test 25+ gal/min. w/ stem set at ft. for artesian flow g.p.m. Date

WAPER WEEL REPORT

Start Card No.

31131 Unique Well I.D. # ABL228 STATE OF WASHINGTON Nater Right Permit No. (1) OWNER: Name RODRIGUEZ, FRANCISCO Address 271 MILLER ROAD BUEVA, WA 98921-(2) LOCATION OF WELL: County YAKINA (2a) STREET ADDRESS OF WELL (or nearest address) , - SW 1/4 NW 1/4 Sec 08 T 08 N., R 23 WM (3) PROPOSED USE: DOMESTIC (10) WELL LOG . . Yormation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with Owner's Number of well (4) TYPE OF WORK: (If more than one) Method: ROTARY NEW ARPT at least one entry for each change in formation. (5) DIMENSIONS: Diameter of well 6 inches Drilled 100 ft. Depth of completed well 100 ft. COBBLES LOAM (6) CONSTRUCTION DETAILS: COBBLES GRAVEL 14 Dia. from +2 Dia. from CLAY GRAVEL GREY Casing installed: 6 14 29 29 41 ft. to 98 ft. to · ft. Dia from ft. to CALICHE GRAVEL TAN 41 44 77 CEMENTED GRAVEL 88 100 Perforations: NO SARD GRAVEL Type of perforator used SIZE of perforations GRAVEL WITH WATER 88 in. by ia. 100 perforations from ft. to perforations from perforations from ft. to ft, ft. to Screens: NO Manufacturer's Rame Model No. Type Dian. slot size from from slot size Size of gravel Gravel packed: NO Size of grav Gravel placed from ft. to ft. Surface seal: YES To what depth? 19 Material used in seal BENTOBITE Did any strata contain unusable water? NO Type of water? Depth of s -21994Depth of strata Nethod of sealing strata off OVERBORE DEPARTMENT OF ECOLOGY EASTERN REGIONAL OFFICE (1) PUMP: Manufacturer's Name (8) WATER LEVELS: Land-surface elevation above mean sea level ... ft.
Static level N/A ft. below top of well Date 11/17/94
Artesian Pressure lbs. per square inch Date Artesian water controlled by Work started 11/17/94_... Completed 11/17/94 static level.

static level.

Has a pump test made? NO If yes, by whom?

mal./min with ft. drawdown after (9) WELL TESTS: Drawdown is amount water level is lowered below WELL CONSTRUCTOR 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. Recovery data Time Water Level Time Water Level Time. Water Level NAME PONDEROSA DRILLING (Person, firm, or corporation) (Type or print)

hrs. Artesian flow g.p.m. Date Temperature of water Has a chemical analysis made? NO

ADDRESS B 6010 BROADWAY

[SIGNED] License No. 2060

Contractor's Registration No. PO-ND-RI*248JR

Date 11/17/94

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

Start Card No W 5 ABX

Dep Sec	ond Copy — Owner's Copy	LL REPORT (ASHINGTON)	UNIQUE WELL ID	ABX	152
	to the state of Carlosa	water Right Permit N ress Rayum		M	o ista
_	Hakima -	W/A/A/	11/5/	-/	22
` '	LOCATION OF WELL COURTY GARAGE		/V 1/4 Sec & T	Z _N R_4	<u>~ 7</u> wм
	STREET ADDRESS OF WELL (or nearest address)	I			
(3)	PROPOSED USE Domestic Industrial Municipal Impartion Test Well Other II	(10) WELL LOG or ABANDONN Formation Describe by color character size			
(4)	D Deviale:	and the kind and nature of the material in ea	ach stratum penetrated with	at least one	entry for each
(4)	(If more than one)	MATERIAL		FROM	то
	Abandoned New well	DOIL Y Gravel		0	3
(5)		GraveL + Cla	ist	3	22
(-,	Dniled 93 feet Depth of completed well 93 ft		1		
(6)	CONSTRUCTION DETAILS	Clay		22	31
,	Casing Installed 10 Diam from 12 ft to 86 tt	Gravet + San	7 -	31	¥/
	Welded Dlam from ft to ft	CIMOD : San		7,	90
	Threaded			86	93
	Perforations Yes I No IX				
	SIZE of perforations in by in				
	perforations from ft toft				
	perforations fromft toft to	h	1 - Ba		
			= 11 [.		
	Screens Yes No S Manufacturer's Name		## O -	ļ	
	Type Model No	<u> </u>	W. 28 1985		
	Diam Slot sizefromft_toft				
	Diam Slot size from ft to ft		, ,		
	Gravel packed Yes No No Size of gravel				
	Gravel placed fromft toft				
	Surface seal Yes No South Seal To what depth?				
	Material used in seal				
	Type of water? Depth of strata				
	Method of sealing strata off				
7)	PUMP Manufacturer's Name				
-,	Туре НР			_	
8)	WATER LEVELS Land surface elevation above mean sea level ft	Work Started 1 - [7]	19 Completed	- 13	- 19 95
	Static level	WELL CONSTRUCTOR OFFICE	IOATION .		
	Artosian pressure tbs per square inch Date Artosian water is controlled by	WELL CONSTRUCTOR CERTIF			
	(Cap valve etc.)	I constructed and/or accept responding to making the compliance with all Washington with all washington with a compliance with all washington with a constructed and/or accept responding to the compliance with all washington with a compliance with a constructed and const	ell construction standards	: Materials	used and
9)	WELL TESTS Drawdown is amount water level is lowered below static level	the information reported above are	1	e and belief	
	Was a pump test made? Yes No If yes by whom?	NAME KICK PERSON FIRM O	· · — · ·	llin	9
		211 1	St St 5	lah.	
_		Address //-	9/ 5		
	Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)	(Signed) Con Michigan	Licens	e No _ <i>O</i> _	357
Ţ	ime Water Level Time Water Level Time Water Level	Contractor s	01 -		
		Registration (WDI241	1 7-1	4	95
			SHEETS IF NECESSA		19 -
	Date of test	(OGE ADDITIONAL	GITEETS IF NECESSA	w11)	
	Bailer testgal /min withft drawdown afterhrs Airtestgal /min with stem set atft forhrs	Ecology is an Equal Opportunity a	und Affirmative Action e	emplover f	or spe
	Artesian flow g p m Date	cial accommodation needs contact			

407 6600 The TDD number is (206) 407 6006

Temperature of water

Was a chemical analysis made?

Yes 🗌

Artesian flow

File Original and First Copy with Department of Ecology Second Copy — Owner's Copy Third Copy — Driller's Copy

56692

WATER WELL REPORT

Start Card No. __W0862A0E511
UNIQUE WELL I.D. # __ACE-511____

STATE OF WASHINGTON

Notes Dight Bermit No.

	OWNER: Name Alberto Molima Add	ress 105 N. Elm, Toppenish		
			8 N.R	23 W.M.
(28)	STREET ADDRESS OF WELL (or nearest address) Fnd Of Christe	enson Rd., Manton		-4
(3)	PROPOSED USE: Domestic Industrial Municipal DeWater Test Well Other	(10) WELL LOG or ABANDONMENT PROCEDURE D. Formation: Describe by color, character, size of material and structure, and and the kind and nature of the material in each stratum penetrated, with	d show thickness	ess of aquiters
(4)	TYPE OF WORK: Owner's number of well (If more than one)	change of information.		T
	Abandoned □ New well 🐧 , Methöd: Dug □ Bored □ .	MATERIAL	FROM	то
	Deepened ☐ Cable ☐ Driven ☐ Reconditioned ☐ Rotary 🕅 Jetted ☐	Br. Clay & Br. Sand	0	93
·-·		Br. Sand & Br. Clay &	93	122
(5)	DIMENSIONS: Diameter of well 6 inches. Drilled 122 feet: Depth of completed well 122 ft.	Gravel & Water		
(6)	CONSTRUCTION DETAILS:			-
	Casing Installed: 6 Diam. from +1 ft. to 1 ≥ 0 ft. Welded Interinstalled Interinstalled Interior Installed Interior Interior Diam. from ft. to ft. Threaded Interior Int			
	Perforations: Yes No X			
	Type of perforator usedin. byin.		+	
	perforations fromft. toft.	DEGELAEU	+	
	ft.		1.	
	perforations fromft. toft.	SED - 0 1886		
٠.	Screens: Yes	00 42 9 000 D		
	Type Model No	DEPARTMENT OF ECOLOGY		(84)
4	Diam. Slot size from ft. to ft.	CHINA HEALT WAS		
	Diam. Slot size from ft. to ft.			
	Gravel packed: Yes No X Size of gravel			
	Surface seal: Yes X No To what depth? 18 ft. Material used in seal Bentonite Did any strata contain unusable water? Yes No X Type of water? Depth of strata Method of sealing strata off			
(7)	PUMP: Manufacturer's Name			1 1
(0)	WATER LEVELS: Land; surface elevation 7/0	Work Started 8 – 29 – 96 19. Completed 9 – 3	3-96	. 19
(8)	Static level 50 ft. below top of well Date 9-3-96 Artesian pressure lbs. per square inch Date Artesian water is controlled by (Cap, valve, etc.)	WELL CONSTRUCTOR CERTIFICATION: I constructed and/or accept responsibility for construction compliance with all Washington well construction standard.	n of this we	ell, and its
(9)	WELL TESTS: Drawdown is amount water level is lowered below static level Was a pump test made? Yes \(\sum \) No \(\subseteq \) If yes, by whom?	Address (Signed)	R PRINT)	
j	Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level) ime Water Level Time Water Level Time Water Level	Contractor's Registration		, , ,
1		No. <u>OASISD*072J9</u> Date <u>9-4-96</u>		_ 19
:	Date of test	(USE ADDITIONAL SHEETS IF NECESS	SARY)	
	Bailer testgal./min. withft, drawdown afterhrs. Airtest 100 gal./min. with stem set at 120 ft. for 1hrs. Artesian flowgp.m. Date 9-3-96	Ecology is an Equal Opportunity and Affirmative Action cial accommodation needs, contact the Water Resource 407-6600. The TDD number is (206) 407-6006.		

File Original and First Copy with Department of Ecology Second Copy — Owner's Copy Third Copy — Driller's Copy

WATER WELL REPORT

Start Card No.: W0483ACE512
UNIQUE WELL I.D. # ACE-521

STATE OF WASHINGTON

Water Right Permit No.

	ddress P.O. Box 546, Sunnyside
LOCATION OF WELL: County Yakima 1) STREET ADDRESS OF WELL (or nearest address)271 Miller Ro	- <u>NW 1/4 NW 1/4 Sec 8 T. 8 N., R 23</u>
	(10) WELL LOG OF ABANDONMENT PROCEDURE DESCRIPTION
PROPOSED USE: St Domestic Industrial Municipal	Formation: Describe by color, character, size of material and structure, and show thickness of age and the kind and nature of the material in each stratum penetrated, with at least one entry for
TYPE OF WORK: Owner's number of well (If more than one)	change of information. MATERIAL FROM TO
Abandoned ☐ New well 🙀 Method: Dug ☐ Bored.☐	Large & Small Gravel & O 1
Deepened ☐ Cable ☐ Driven☐ Reconditioned ☐ Rotary ※ Jetted,☐	Soil
DIMENSIONS: Diameter of well 6 inches.	1 0 0 11 0 1 10 10
Drilled 90 [seet: Depth of completed well 90 tt.	D C1 9 C 1
	Large & Small Gravel & 66 -90
CONSTRUCTION DETAILS:	Br. Clay & Sand & Water
Casing installed: 6 Diam. from +1 ft. to 90 ft. Welded & Diam. from ft. to ft.	
Welded □ Diam. from ft. to ft. Liner installed □ Diam. from ft. to ft. Threaded □ Uiam. from ft. to ft.	
Perforations: Yes No X	
Type of 'perforator used	
perforations fromft. to,ft.	
perforations fromft. toft.	IST Plat
perforations fromtt. toft.	1 40 5 # 1
Screens: Yes No 🕅	
Manufacturer's Name	
Type Model No	2 mars - Company Company Andrews - Company - Company
Diam. Slot size from ft. to ft.	11-1 15 15 15 1 W 15 1-11 -
DiamSlot sizefromft. toft.	
Gravel packed: Yes No X Size of gravel	MARY LO IOOC HILL
Gravel placed fromft. toft.	MOD 1 2 1330
Surface seal: Yes 🖺 No 🗌 To what depth?18	
Material used in seal Bentonite	DEPARTMENT OF SCOLOGY
Did any strata contain unusable water? Yes ☐ No 🏋	A STANCE MANAGEMENT CON THE STANCE OF THE ST
Type of water? Depth of strata	
Method of sealing strata off	
PUMP: Manufacturer's Name	1
Type: H.P	
WATER LEVELS: Land surface elevation 7.2.0	Work Starled 6-26-96 19 Completed 6-27-96 19
above mean sea level 20 ft. Static level 24 ft. below top of well. Date $6-27-96$	
Artesian pressure lbs. per square inch Date	WELL CONSTRUCTOR CERTIFICATION:
Artesian water is controlled by	I constructed and/or accept responsibility for construction of this well, and compliance with all Washington well construction standards. Materials used a
WELL TESTS: Drawdown is amount water level is lowered below static level	the information reported above are true to my best knowledge and belief.
Was a pump test made? Yes No X If yes, by whom?	
Yield:gal./min. withft. drawdown afterhrs.	NAME 2017 S 16th Ave (TYPE OR PRINT) Union Gap, WA 98903
n n n	Address
n n n	1 1 1 1 1 1 1 1 2 5
Recovery data (time taken as zero when pump turned off) (water level measured from well	(Signed) License, No. 1435
top to water level) Time Water Level Time Water Level Time Water Level	Continue
	Contractor's Registration To Description 7 2 2 06
	Registration No. OASISD*072J9 Date 7-3-96 19
Davidson .	(USE ADDITIONAL SHEETS IF NECESSARY)
Date of test ft_ drawdown after hrs	
Bailer-testgal./min. withft. drawdown afterhrs Airtest 3.7 gal./min. with stem set at 90 ft. forhrs	Ecology is an Equal Opportunity and Affirmative Action employer. For sp
Artesian flow g.p.m. Date 6-27-96	cial accommodation needs, contact the Water Resources Program at (26 407-6600. The TDD number is (206) 407-6006.

File Original and First Copy with Department of Ecology Second Copy — Owner's Copy
Third Copy — Driller's Copy

WELL REPOR

W048ADE522

STATE OF WASHINGTON

UNIQUE WELL I.D. # __ACE-522

	OWNER: Name John Dalrymple Add	ess P.O. Box 546, Sunnyside		
(2)	LOCATION OF WELL: county Yakima	- NW 1/4 NW 1/4 Sec 8 T.	3 N. R. 2	23 w.m.
	STREET ADDRESS OF WELL (or nearest address) 371 Miller R.O.			D
(3)	PROPOSED USE: 🖈 Domestic Industrial 🗆 Municipal 🗆	(10) WELL LOG or ABANDONMENT PROCEDURE D	ESCRIPTION	ÓN .
	☐ Irrigation ☐ DeWater Test Well ☐ Other ☐	Formation: Describe by color, character, size of material and structure, and and the kind and nature of the material in each stratum penetrated, with a change of information.	show thickness at least one en	s of aquifers ntry for each
(4)	TYPE OF WORK: Owner's number of well (If more than one)	MATERIAL .	FROM	то
	Abandoned New Well Marchod: Dug Bored Deepened Cable Driven	Large & Small Gravel &	0	12,
	Reconditioned ☐ Rotary 🕅 Jetted ☐	Soil		
(5)	DIMENSIONS: Diameter of well 6 inches.	Large & Small Gravel &	12	66_
	Drilled 90 feet. Depth of completed well 90 ft.	Br. Clay & Sand	66	90
(6)	CONSTRUCTION DETAILS:	Large & Small Gravel & Br. Clay & Sand & Water	00	90
	Casing installed: 6 - Diam. from +1 ft. to 90 ft.	bis ciaj a bana a mater	·	
	Welded \(\sum_{\text{biner installed}} \) Diam. fromft. toft.			
	Threaded Diam. from ft. to tft.			
	Perforations: Yes No X	1st Plat		
	Type of perforator used	Lot #2		
	SIZE of perforations in. by in. by in ft. to ft.			
	perforations fromft. toft.			
-	Screens: Yes No X	TO E G E I V E INI		
	Manufacturer's Name			
	Type Model No	THE MAN TO LONG THE		
	Diam. Slot size from ft. to ft.	100 12 1550		
	.Diam Slot size from ft. to ft.	7.4		
	Gravel packed: Yes No Size of gravel	DEPARTMENT OF ECOLOGY		
	Gravel placed fromft. toft.	CONTRAL REGION DE CO		
	Surface seal: Yes \(\bar{\sqrt{No}} \) No \(\bar{\sqrt{No}} \) To what depth? \(\bar{\sqrt{18}} \) ft. Material used in seal \(\bar{\sqrt{Bentonite}} \)			
	Did any strata contain unusable water? Yes ☐ No ☒			
	Type of water? Depth of strata			
	Method of sealing strata off			
(7)	PUMP: Manufacturer's Name			
(8)	WATER LEVELS: Land-surface elevation 7.2.0	Work Started 6-27-96 19. Completed 6-28	-96	, 19
	Static level 24 shove mean sea level 720 ft. below top of well Date 6-2.8-96	WELL CONCEDUCTOR CERTIFICATION.		
	Artesian pressure lbs. per square inch Date	WELL CONSTRUCTOR CERTIFICATION:	1	
	Arresian water is controlled by (Cap, valve, etc.)	I constructed and/or accept responsibility for construction compliance with all Washington well construction standards	of this wells. Materials	used and
(9)	WELL TESTS: Drawdown is amount water level is lowered below static level .	the information coorded above are true to my best knowledge to the control of the	ge and belie	f
	Was a pump test made? Yes ☐ No ☒ If yes, by whom?	2017 C 1046 A.		
	Yield:gal./min. withft. drawdown afterhrs.	Union Gap, WA 98903	PRINT)	
	n n n	Address		
_	n n	(Signed) Licens	se No 1	435
	Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)	WELL DRIBLER)	• •	
	Time Water Level Time Water Level Time Water Level	Contractor's		i,
		Registration No. UASISD*072J9 Date 7-3-96		, 19
<i></i>		(USE ADDITIONAL SHEETS IF NECESS	ARY)	
	Date of test	(552.155.1151.151.151.151.151.151.151.151	_	
	Bailer testgal./min. withft, drawdown.afterhrs.	Ecology is an Equal Opportunity and Affirmative Action	employer.	For spe-
	Airtest 25 gal./min. with stem set at 90 ft. for 1 hrs. Artesian flow g.p.m. Date 6-28-96	cial accommodation needs, contact the Water Resource	s Program	at (206)
(e)	gipinic bate 10 Ma [V]	407-6600. The TDD number is (206) 407-6006.		

No X

Temperature of water 68 Was a chemical analysis made? Yes

File Original and First Copy with Department of Ecology Second Copy — Owner's Copy Third Copy — Driller's Copy

36802

WATER WELL REPORT

Start Card No. <u>W0483ACE523</u>

STATE OF WASHINGTON

UNIQUE WELL I.D. # ACE-523

	OWNER: Name_John_DalrvmpleAdd	ress P.O. Box 546, Sunnyside		· :
2)	LOCATION OF WELL: County Yakima	NW1/4NW1/4 Sec8T 8	N., R	23_w.w
2a)	STREET ADDRESS OF WELL (or nearest address) 371 Miller Rd	Mabton		P
3)	PROPOSED USE: X Domestic Industrial Municipal	(10) WELL LOG OF ABANDONMENT PROCEDURE DE	SCRIPTIC	N J
	☐ Irrigation	Formation: Describe by color, character, size of material and structure, and sh and the kind and nature of the material in each stratum penetrated, with at change of information.		
4)	TYPE OF WORK: Owner's number of well (fr.more than one) 4	MATERIAL	FROM	то
	Abandoned New well M Method: Dug Bored Cable Driven	Topsoil	0	2
-	Reconditioned Rotary X Jetted	Large & Small Gravel &	2	34
5)	DIMENSIONS: Diameter of well 6 inches.	Br. Clay & Sand		
,	Drilled 110feet. Depth of completed well 110ft:	Br. Sand & Br. Clay	34	65
_		Large & Small Gravel &	65.	108
6)	CONSTRUCTION DETAILS:	Br. Clay & Sand & Water		
	Casing installed: 6 Diam. from +1 ft. to 93 ft.	Med. Grav Basalt	108	110
	Welded Diam. from tt. to ft. Liner installed Diam. from tt. to ft. to ft.			
	Threaded Diam. from ft. to ft.			
	Perforations: Yes No 🖺			
	Type of perforator used			el .
	SIZE of perforations in. by in.			
	perforations fromtt. tott.	2nd Plat	2	·
	perforations fromft. toft.	Lot #2		
	perforations from ft. to ft.			
	Screens: Yes No X		-	
	Manufacturer's Name			
	Type Model No	200 C 10 C		
4	Diam. Slot size from ft. to ft.	Maj is G E J V E lall		
	Diam. Slot size from ft. to ft.			
	Gravel packed: Yes No X Size of gravel	1 2 1990 HE		
•	Gravel placed fromft. toft.	FIG. 1000		
	Surface seal: Yes X No To what depth? 18 ft.	b day over the control of the contro		
	Material used in seal Bentonite	DEPARTMENT OF ECOLOGY	-	
	Did any strata contain unusable water? Yes ☐ No ☒	. Compression of the compression		
	Type of water? Depth of strata			
	Method of sealing strata off			
-	DUMP.			
(7)	PUMP: Manufacturer's Name			_
'O\	WATER LEVELS: Land-surface elevation 7.2.5	Work Started: 7 – 2 – 96: -19 Completed: 7 – 2 –	9.6	. 19
(6)	above mean sea level / 2 J ft.	Work Starled 7 - 2 - 9 0 19 Completed 7 - 2 -	2.0	-,19
	Static level 30 ft. below top of well. Date 7-2-96 Artesian pressure lbs, per square inch Date	WELL CONSTRUCTOR CERTIFICATION:		
	Artesian water is controlled by	I constructed and/or accept responsibility for construction of	of this well	, and its
•	(Cap, valve, etc.)	compliance with all Washington well construction standards, the information reported above are true to my best knowledge		
(9)	WELL TESTS: Drawdown is amount water level is lowered below static level	OASIS DRILLING	. Jones	
.*	Was a pump test made? Yes ☐ No ☒ If yes, by whom?	NAME 2017 S 16th AND (TYPE OR P	- OLIT	
	Yield:gal./min. withft. drawdown afterhrs.	Union Gap, WA 98903	Widi)	
	.,, ,, ,, ,, ,,	Address		
	n n n	(Signed) License	.No. 1-4	.35
	Recovery data (time taken as zero when pump turned off) (water level measured from well- top to water level)	WELL DRILLER)		
7	ime Water Level Time Water Level Time Water Level	. Contractor's		
		Registration No. OASISD*072J9 Date: 7-3-96		.10
)	— , — – – – – – – – – – – – – – – – – – – 			
	Date of test	(USE ADDITIONAL SHEETS IF NECESSA	HY)	
	Bailer test:gal./minwithft. drawdown after:hrs.			
	Airtest 60 gal./min, with stem set at 110 ft. for 1 hrs.	Ecology is an Equal Opportunity and Affirmative Action e		
	Artesian flow g.p.m. Date 7-2-96	cial accommodation needs, contact the Water Resources 407-6600. The TDD number is (206) 407-6006.	Program	at (206)
	The state of the TO We state of the State of the TO May 17	407-0000. THE TOD HUMBERTS (206) 407-0006.		

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

Start Card No. <u>W0483</u>ACE531

STATE OF WASHINGTON Water Right Permit No.

UNIQUE WELL I.D. # ACE-531

X	OWNER: Name John Dalrymple Addr	P.O. Box 546, Sunnyside		
(2)	LOCATION OF WELL: County Yakima	- <u>NW</u> 1/4 <u>NW</u> 1/4 Sec_ 8 T 8	, N., R	23 w.m.
(2a)	STREET ADDRESS OF WELL (or nearest address) 371 Miller Ro	I., Mabton		D
(3)	PROPOSED USE: Domestic Industrial Municipal	(10) WELL LOG or ABANDONMENT PROCEDURE DE	SCRIPTI	ON
	☐ Irrigation ☐ DeWater Test Well ☐ Other ☐	Formation: Describe by color, character, size of material and structure, and and the kind and nature of the material in each stratum penetrated, with a change of information.		
(4)	TYPE OF WORK: Owner's number of well [If more than one] 3	MATERIAL	FROM	то
	Abandoned New well Markot: Dug Bored Deepened Cable Driven	Topsoil	0	2
	Reconditioned ☐ Rotary 【 Jetted ☐	Large & Small Gravel &	2	34
(5)	DIMENSIONS: Diameter of well 6 inches.	Br. Clay & Sand		
	Drilled 110. feet. Depth of completed well 110 ft.	Gravel & Br. Clay & Br. Sand	34	65
<u>(5)</u>	CONCEDUCTION DETAILS	Large & Small Gravel &	65	10.8
(6)	CONSTRUCTION DETAILS:	Br. Clay & Sand & Water	•	
	Casing installed: Diam, from the to the first terms of the first terms	Med. Gray Basalt	108	110
	Welded ∑ Diam. from ttto ttto ttto to			<u> </u>
			,	
	Perforations: Yes No X			-
	Type of perforation used SIZE of perforations in. by in.	2nd Plat	•	
	perforations from the to the first transfer of transfer of transfer of transfer of trans	Lot #1		
	perforations from ft. to ft.		-	
	perforations fromft. toft.			
	Screens: Yes No 🗓			
	Maguifacturar's Namo	· · · · · · · · · · · · · · · · · · ·		
1	Type Model No	E @ 2 1 W F = 7		
<i>).</i>	Diam. Slot size from ftto ft.	TE BE BE		
	Diam: Slot/size from ft. to ft.			-
-	Gravel packed: Yes No Size of gravel	AUG 1 2 1996		
	Gravel placed fromft. toft.	16.01	90 VI	
_	Surface seal: Yes No D To what depth? 18	DEPARTMENT OF CONTORY	71	
	Surface seal: Yes No To what depth? 1.8 ft. Material used in seal Bentonite	CHIRAL REGION DES	,	
	Did any strata contain unusable water? Yes No X	The second secon	•	15
	Type of water? Depth of strata			
	Method of sealing strata off			
(7)	PUMP: Manufacturer's Name	<u> </u>		
_		7.1.06	0.6	
(8)	WATER LEVELS: Land-surface elevation above mean sea level 725 t.	Work Started 7-1-96 19. Completed 7-1-	96	, 19
	Static level 30 ft. below top of well Date 7-1-96	WELL CONSTRUCTOR CERTIFICATION:		
	Artesian pressure lbs. per square inch Date Artesian water is controlled by	I constructed and/or accept responsibility for construction	of this we	ell. and. its
_	(Cap, valve, etc.)	compliance with all Washington well construction standards	. Materials	used and
(9)	WELL TESTS: Drawdown is amount water level is lowered below static level .	the information reported above are true to my best knowledge DRILLING	je and belle	et.
	Was a pump test made? Yes No X If yes, by whom?	NAME 2017 S 18th Ave		
5	Yield:gal./min. with ft. drawdown after hrs.	Union Gap, WA 98903	PRINT)	
	<i>y</i> , , ,	Address		
	n 2 n n; n	(Signed) Licens & Kank Licens	se No. 14	35
	Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)	(WELL DRILLER)	.0	
	ime Water Level Time Water Level Time Water Level	Contractor's		14
~		Registration No. OASISD*072J9 Date 7-3-96		10
	———,——————————————————————————————————			_, 13
	Date of test	(USE ADDITIONAL SHEETS IF NECESS	ARY)	
	Bailer test gal./min. with ft. drawdown after hrs.		- 11.	
	Airtest 25 gal./min. with stem/set at 110 ft. for 1 hrs.	Ecology is an Equal Opportunity and Affirmative Action		
	Artesian flow g.p.m. Date 7-1-96	cial accommodation needs, contact the Water Resource 407-6600. The TDD number is (206) 407-6006.	o riogram	1 at (200)
	Temperature of water 70 Was a chemical analysis made? Yes No 🗓			

ECY 050-1-20 (9/93) * * f

File Original and First Copy with Department of Ecology Second Copy — Owner's Copy Third Copy — Driller's Copy

1958

WATER WELL REPORT

UNIQUE WELL I.D. # ACL 290

STATE OF WASHINGTON

Water Right Permit No

(2) LOCATION OF WELL: County CIAKIMA	NW 1/4 NE 1/4 Sec 8 T. 8 N. A 23 WM.
(2a) STREET ADDRESS OF WELL (or nearest address).	3
(3) PROPOSED USE: Domestic Industrial Municipal	(10) WELL LOG OF ABANDONMENT PROCEDURE DESCRIPTION
☐ Irrigation Test Well ☐ Other ☐	Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each
(4) TYPE OF WORK: Owner's number of well (If more than one)	change of information. MATERIAL FROM TO
Abandoned New well Method: Dug Bored Color Cable Driven Reconditioned Rotary Jetted	Topsoil 8 6 11 Boulders + Clay TAN M 11 13
(5) DIMENSIONS: Diameter of wellinches. Drilled	Clay BRN 5 13 42 Gravel Cemented SAND 5 42 67
(6) CONSTRUCTION DETAILS:	gravel coarse W/B \$ 67 80
(6) CONSTRUCTION DETAILS: Casing installed:	
Perforations: Yes . No	
SIZE of perforations in. by in. perforations from ft. to ft	
perforations from tt. to tt	
Screens: Yes No Manufacturer's Name Model No.	
Diam. Slot size from ft. to ft.	
Gravel packed: Yes No Size of gravel ft. to ft. to ft.	ALL BE
Material used in seal Did any strata contain unusable water? Yes No	Economic State of the state of
Type of water? Depth of strata Method of sealing strata off DUCTOOT	(A) (E) (B) (A) (B) (B) (B) (B) (B) (B) (B) (B) (B) (B
(7) PUMP: Manufacturer's Name	
(8) WATER LEVELS: Land-surface elevation above mean sea level fit.	Work Started 6-11 98 19. Completed 6-12 1978
Static level 15 th below top of well Date 4:	WELL CONSTRUCTOR CERTIFICATION:
Artesian water is controlled by (Cap, valve, etc.) (9) WELL TESTS: Drawdown is amount water level is lowered below static level	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:
Was a pump test made? Yes	NAME CRYSTAL WATER (PERSON, FIRM, OR CORPORATION) - (TYPE OR PRINT)
n n n	Address 505 TRENE LIANE
Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level) Time Water Level 'Time Water Level Time Water Level	(Signed) RON 15411 License No. 2007 (WELL ORILLER)
	No. CRYSTUMX044NW Date 6-12 1999
Date of test Bailer test gal./min. with ft. drawdown after hrs.	(USE ADDITIONAL SHEETS IF NECESSARY)
Bailer testgal./min. withft. drawdown after,hrs. Airtestgal./min. with stem set at 0ft. forhrs. Artesian flowg.p.m. Date	Ecology is an Equal Opportunity and Affirmative Action employer. For special accommodation needs, contact the Water Resources Program at (206) 407-6600. The TDD number is (206) 407-6006.

File Original and First Copy with Department of Ecology Second Copy — Owner's Copy Third Copy — Driller's Copy

7593

WATER WELL REPORT

Start Card No. W0.876ACL582

UNIQUE WELL I.D. #_

STATE OF WASHINGTON

Water Bloht Permit N

	OWNER: Name Cindy Crawford Add	ess 1002 Powel Ave., Grandview		
(2)	LOCATION OF WELL: County Yakima	SE 1/4 NW 1/4 Sec 1.7 T. 8		
(2a)	STREET ADDRESS OF WELL (or nearest address) End Of Christe	nson Rd. South Side Of Canal, A	Mabto	n L
(3)	PROPOSED USE:	(10) WELL LOG or ABANDONMENT PROCEDURE DE: Formation: Describe by color, character, size of material and structure, and st		
	Li Demalei	and the kind and nature of the material in each stratum penetrated, with at change of information.		
(4)	TYPE OF WORK: Owner's number of well (If more than one)	. MATERIAL	FROM	то
	Abandoned New well Machined: Dug Bored Deepened Cable Driven	Br. Clay & Br. Sand	0	107
	Reconditioned Rotary X Jetted	Br. Clay & Br. Sand &	10.7	126
(5)	DIMENSIONS: Diameter of well 6 inches.	Gravel & Water 15 GPM		
	Drilled 1.57 feet. Depth of completed well 157 ft.	Br. & Gray Basalt & Hd.	126	135
/B)	CONSTRUCTION DETAILS:	Br. Clay & Water		
(6)	6	Med. Gray Basalt	135	157
	Casing installed: 0 Diam. from $+1$ ft. to 127 ft. Welded $4\frac{1}{2}$ Diam. from 97 ft. to 157 ft. Liner installed 3		-,	
	Threaded Diam. from ft. to ft.			-
	Perforations: Yes X No .			9
	Type of perforator used Skill Saw			
	SIZE of perforations 1/8 in. by 5 in.			
	80 perforations from 13.7 ft. to 157 ft.	Y: T WAR TO A TO		
		泛 提 居 明 照 6 5~		
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	Screens: Yes No X			
-	Manufacturer's Name Model No	1UU APR 2 1 1997 11 11 1		
	Diam. Slot size from ft. to ft.	DEPARTMENT OF FOR	- 1	
	Diam. Slot size from ft. to ft.	CENTRAL REGION OFFICE		
_	Gravel packed: Yes No X Size of gravel	The state of the s		
	Gravel placed fromft. toft.		·	
-	Surface seal: Yes K No To what depth? 23			
	Material used in seal Bentonite			
	Did any strata contain unusable water? Yes ☐ No ☒	·		
1	Type of water? Depth of strata			4
	Method of sealing strata off		-	
(7)	PUMP: Manufacturer's Name			*
(,,	Type:H.P.			
(8)	WATER LEVELS: Land-surface elevation 700	Work Started 3-28-97, 19. Completed 4-1-9	7	, 19
	Static level 62 above mean sea level 7/00 ft. below top of well Date 4-1-97	WELL CONSTRUCTOR CERTIFICATION		
	Artesian pressure lbs. per square inch Date	WELL CONSTRUCTOR CERTIFICATION:	5.5	
	Artesian water is controlled by (Cap. valve, etc.)	I constructed and/or accept responsibility for construction compliance with all Washington well construction standards.		
(9)	WELL TESTS: Drawdown is amount water level is lowered below static level	the information rough the manage to make knowledge	and belief	
	Was a pump test made? Yes ☐ No ☒ If yes, by whom?	NAME 2017 S. 16th Ave.		
	Yield:gal./min. withft. drawdown afterhrs	Unions Bay, of ART CHAP CHAP	RINT)	
_	n n n n,	Address		
_	n n n	(Signed) License	No. 1	43.5
	Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)	WELL DHILLER!		×
	Time Water Level Time Water Level	Contractor's		
		Registration No. OASISD*072J9 Date 4-1-97		, 19
		(USE ADDITIONAL SHEETS IF NECESSA	BY)	
	Date of test	TOOL ADDITIONAL OFFICE TO IT NECESSA	,	-
	Bailer test gal./min. with ft. drawdown.after hrs:	Ecology is an Equal Opportunity and Affirmative Action e	mplover.	For spe-
	Airtest 23 gal./min. with stem set at 157 ft. for 1 hrs. Artesian flow g.p.m. Date $4-1-9.7$	cial accommodation needs, contact the Water Resources		
	Temperature of water 72 Was a chemical analysis made? Yes No X		7-	

File Original and First Copy with Department of Ecology Second Copy — Owner's Copy Third Copy — Driller's Copy

56825

WATER WELL REPORT

Start Card No. W08656ACL830

STATE OF WASHINGTON

UNIQUE WELL I.D. # ACL-830

(1)	WNER: Name Juan Vargas Addr	P.O. Box 101, Mabton		
(2)	LOCATION OF WELL: County_ Yakima	NW 1/4 NW 1/4 Sec 8 T. 8	NR	2.3 w.m.
(2a)	the state of the s	Stettner Rd., Mabton		D
(3)	PROPOSED USE: Xi Domestic Industrial Municipal	(10) WELL LOG or ABANDONMENT PROCEDURE D	ESCRIPT	ION
	☐ Irrigation ☐ Cther ☐ ☐ DeWater Test Well ☐ Cther ☐	Formation: Describe by color, character, size of material and structure, and and the kind and nature of the material in each stratum penetrated, with a change of information.	show thickne	ess of aquiters
(4)	TYPE OF WORK: Owner's number of well (If more than one)	MATERIAL MATERIAL	FROM	то
	Abandoned New well Mandoned Bored Deepened Cable Driven	Topsoil	0	.2
_	Reconditioned ☐ Rotary 🛣 Jetted ☐	Br. Clay & Large & Small	2	40
(5)	DIMENSIONS: Diameter of well 6 inches.	.Gravel & Sand		
	Drilled 90 feet. Depth of completed well 90 ft.	Br. Clay & Br. Sand & Gravel	40	78
(6)	CONSTRUCTION DETAILS:	& Water Br. Basalt & Gray Basalt &	78	90
30.5	Casing installed: 6 " Diam. from +1 ft. to 78 ft.	Water	70	90
	Welded ∑ Diam. from ft. to ft. Liner installed □			
	Threaded Diamfrom tt. to ft:		. *	. 3.
	Perforations: Yes No 🛚			
	Type of perforation used SIZE of perforations: \(\text{in. by} \) in.			
	SIZE of perforations in.		0	-
	perforations fromft. toft:		-	
	perforations fromft. toft.			
-	Screens: Yes No X			
	Manufacturer's Name			,
-	pe Model No -Diam: Slot size	DEBINGE	-	-
	DiamSlot sizefromft. toft.	THE THE PARTY OF T	E ·	
	Gravel packed: Yes No 🛣 Size of gravel		i	1
5 4	Gravel placed fromft. toft.	JUL - 2 550		
-	Surface seal: Yes X No To what depth? 23 ft.	None and the second		
	Material used in seal Bentonite	DEPARTMENT OF ECOLOGY CENTRAL REGION OFFER		
	Did any strata contain unusable water? Yes \(\square\) No \(\overline{\lambda} \)	E COLON COLON		
	Type of water? Depth of strata Method of sealing strata off			-
	Welliou of Sealing Strata on			
(7)	PUMP: Manufacturer's Name			
_		Work Started $6-1.8-97$, 19. Completed $6-1.9$	0.7	
(8)	WATER LEVELS: Land-surface elevation 700 above mean sea level 1 ft. below top of well Date 6-19-97	Work Started <u>6-18-97</u> , 19. Completed <u>6-19</u>		, 19
	Static level 1.1 ft. below top of well Date 6-19-97 Artesian pressure lbs. per square inch Date	WELL CONSTRUCTOR CERTIFICATION:		
	Artesian water is controlled by(Cap, valve, etc.)	I constructed and/or accept responsibility for construction compliance with all Washington well construction standards		
(9)	WELL TESTS: Drawdown is amount water level is lowered below static level	the information reported above are true to my best knowledge	ge and belie	ef.
(-)	Was a pump test made? Yes No No If yes, by whom?	NAME 2017 S 16th Ave	9	
	Yield: gal./min. with ft. drawdown after hrs.	NAME 2017 S 16th Ave. TYPE OF UNION Gap, WA 98903	PRINT)	
	n n n n	Address		
_	n n	(Signed) Licens	se No. 14	.35
	Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)	(WELL OMILLER)	-	
_	Time Water Level Time Water Level Time Water Level	Contractor's		
1		Registration No. OASISD*072J9 Date 6-19-97		19
-		(USE ADDITIONAL SHEETS IF NECESS	ARY).	
	Date of testhrs.		-	
	Bailer test gal./min. with ft. drawdown after hrs. Airtest 50 gal./min. with stem set at 90 ft. for 1 hrs.	Ecology is an Equal Opportunity and Affirmative Action	employer.	For spe-
	Artesian flow g.p.m. Date 6-19-97	cial accommodation needs, contact the Water Resource 407-6600. The TDD number is (206) 407-6006.	is Program	n at (206).
	Temperature of water 62 Was a chemical analysis made? Yes ☐ No 🛛			

	CURRENT		APK1
WATER WELL REPORT Original & 1" copy - Ecology, 2" copy - owner, 3" copy - driller	Notice of Intent No. W20578	3	
E 0 0 t 0 c 7 Construction/Decommission ("x" in circle)	Unique Ecology Well ID Tag No. Aft	129	y
Construction 390738	Water Right Permit No.		
Decommission ORIGINAL INSTALLATION Notice	Property Owner Name Miquel	Torne	7
of Intent Number	Well Street Address 730 Stell	erAd	
ROPOSED USE: Domestic Industrial D Municipal DeWater Irrigation Test Well D Other	City Mablein County Y		2 .
	Locations W 1/4-1/4 N E 1/4 Sec & Twn	R 23 FW	de circle
YPE OF WORK: Owner's number of well (if snore than one) New well □ Reconditioned		ww	M one
Deepened Cable Rotary D Jetted	Lat/Long (s, t, r Lat Deg L	1	
IMENSIONS: Diameter of well inches, drilled # ft. Depth of completed well ft.	Still REQUIRED) Long Deg L		c
ONSTRUCTION DETAILS	Tax Parcel No. 23.0 806 444	0.2	
asiang Wetded " Diam from 22 it to 92 it assalled Liner installed " Diam from 10 it to 92 it	CONSTRUCTION OR DECOMMISSION	ON PROCEDU	RE
Threaded Dham from the fl. to 180 ft	Formation: Describe by color, character, size of material ar	ed structure, and t	he kind and
ype of perforator used SALLO CLAT	insture of the material in each stratum penetrated, with at less information. (USE ADDITIONAL SHEETS IF NEC		ach change of
IZE of perfs / fr in by g in and no of perfs of from 12 ft. of 600	MATERIAL	FROM	то
fanusacturer's Name	Sorly Bollings	10	20
ype Model No	Sand adduct	20	47
harm Slot size from ft to harm Slot size from ft to ft	3300 9000	100	
ravel/Filter packed: O Yes No O Size of gravel/stand hatcrials placed from 0 ft.	Black BASAIT	92	115
urface Seal: Yes DNo To what depth? 20 ft	Tanklan	112	BLED
taterial used in seal Deptropries	TON CIPING		apris
id any strata contain umusable water?	SANDSTONEWARK	140	180
ype of water? Depth of strata			
	77.19	1/2	1 A A
Aethod of sealing strata off	SAND	160	185
Method of sealing strata off UMP: Manufacturer's Name ype: H.P.	SAND	160	185
Aethod of sealing strata off UMP: Manufacturer's Name ypc: HP: WATER LEVELS: Land-surface elevation above mean sea level	SAND	160	185
Aethod of sealing strata off PUMP: Manufacturer's Name ype: H.P. WATER LEVELS: Land-surface elevation above mean sea level ft. below top of well Date 6.85	SAND	160	185
WATER LEVELS: Land-surface elevation above mean sea level R. below top of well Date 57 Interian pressure 155 per square inchr Date	SAND	160	185
tethod of sealing strata off UMP: Manufacturer's Name ype: H.P. VATER LEVELS: Land-surface elevation above mean sea level ft. below top of well Date 15 per square inchr Date rtesian pressure is controlled by (cap, valve, etc.)	SAND	160	185
WATER LEVELS: Land-surface elevation above mean sea level Attended for the personal control of the pe	SAND	160	185
Comparison of the least of th	SAND	160	185
ethod of sealing strata off UMP: Manufacturer's Name ATER LEVELS: Land-surface elevation above mean sea level fit airic level fits per square inchr Date resian pressure resian water is controlled by (cap, valve, etc.) /ELL TESTS: Drawdown is amount water level is lowered below static level //as a primp text made? Yes No If yes, by whom? reld pal/min. with ft drawdown after hrs rield gal/min. with ft drawdown after hrs rield gal/min. with ft drawdown after hrs rield gal/min. with ft drawdown after hrs	SAND	160	185
ethod of sealing strata off UMP: Manufacturer's Name /ATER LEVELS: Land-surface elevation above mean sea level /ATER LEVELS: Land-surface elevation above m	SAND	160	185
ethod of sealing strate off UMP: Manufacturer's Name ATER LEVELS: Land-surface elevation above mean sea level Atter Level R. below top of well Date Atterian pressure Ibs per square inchr Date resian water is controlled by (cap, valve, etc.) (ELL TESTS: Drawdown is amount water level is lowered below static level (as a pump test made? Yes No If yes, by whom? It drawdown after hrs ield: gal/min. with fl drawdown after hrs.	SAND	6 ECULOGO MANDO	185
ethod of sealing strata off UMP: Manufacturer's Name /ATER LEVELS: Land-surface elevation above mean sea level /ATER LEVELS: Land-surface elevel	SAND	Acceived	185
ethod of sealing strata off UMP: Manufacturer's Name ATER LEVELS: Land-surface elevation above mean sea level financian pressure this per square inchr Date resian water is controlled by (cap, valve, etc.) VELL TESTS: Drawdown is amount water level is lowered below static level (sas a pump test made? Yes D N If yes, by whom? ield gal/min. with fi drawdown after his ield; gal/min. with fi drawdown after his ield; gal/min. with fi drawdown after his secovery dato (time taken as zero when pump turned off) (water level measured from well up to water level) une Water Level Time Water Level Time Water Level	SAND	Heceived	185
Manufacturer's Name	SAND	160 6 ECU ₂₀ Received N Z 8 2008	185
Section of sealing strate off Section Se	(3)	N 2 8 2008	185
tethod of sealing strata off UMP: Manufacturer's Name ype: HP: WATER LEVELS: Land-surface elevation above mean sea level flatic level R. below top of well Date Itesian pressure inchr Date Itesian water is controlled by (cap, valve, etc.) WELL TESTS: Drawdown is amount water level is lowered below static level Was a primp test made? Yes No If yes, by whom? Iteld: gal/min. with fl drawdown after hirs Iteld: gal/min. with fl drawdown after hirs Iteld: gal/min. with fl drawdown after hirs Iteld: gal/min with fl drawdown after hirs Iteld: gal/min with fl drawdown after hirs Water Level Time Water Level Time Water Level Italier test gal/min. with fl drawdown after hirs Italier test gal/min. with stern set at fl drawdown after hirs Italier test gal/min. with stern set at fl drawdown after hirs Italier test gal/min. with stern set at fl drawdown after hirs Italier test gal/min with stern set at fl drawdown after hirs Italier test gal/min with stern set at fl drawdown after hirs Italier test gal/min with stern set at fl drawdown after hirs Italier test gal/min with stern set at fl drawdown after hirs Italier test gal/min with stern set at fl drawdown after hirs Italier test gal/min with stern set	(3)	Heceived	185
Section of sealing strate off Section Se		N Z 8 2008	185
techod of sealing strata off UMP: Manufacturer's Name ype: HP: WATER LEVELS: Land-surface elevation above mean sea level ft. below top of well Date Itesian pressure Itesian pressure Itesian pressure Itesian water is controlled by (cap, valve, etc.) WELL TESTS: Drawdown is amount water level is lowered below static level Was a pump text made? Yes No If yes, by whom? Iteld: gal/min. with ft drawdown after hirs field: gal/min. with ft drawdown after hirs fectovery data (time taken as zeri when pump turned off) (water level measured from well op to water level) Find Water Level Time Water Level Time Water Level Time Water Level The water Level Time water set as ft drawdown after hirs ft drawdown after h	Start Dato (28. 3) - 27 Compl	N Z 8 Z008	185 8-07
Method of sealing strata off UMP: Manufacturer's Name YATER LEVELS: Land-surface elevation above mean sea level R. below top of well Date	Stan Dato 6 Complete	N Z 8 Z008 N Z 8 Z008 THE REGION of the Date of the Complies	185 8-07 ance with all
tethod of sealing strata off UMP: Manufacturer's Name ype: WATER LEVELS: Land-surface elevation above mean sea level R. below top of well Date Attestian pressure (bs. per square inchr. Date Itestian pressure Itestian pressure (cap, valve, etc.) WELL TESTS: Drawdown is amount water level is lowered below static level Vas a pump text made? Yes	Start Date Complete C	N Z 8 Z008 N Z 8 Z008 THE REGION of the Date of the Complies	8-07 ance with all
Manufacturer's Name HP	Start Date (28.2) — Complete C	N Z 8 Z008 N Z 8 Z008 THE REGION of the Date of the Complies	185 B-07
Manufacturer's Name HP Water Level Time Water Level Water Level Time Water L	Start Date (28.) — Complete Complete Complete Complete Company (19.1) Company (19	N Z 8 Z008 N Z 8 Z008 THE REGION of the Date of the Complies	8-07 ance with all
Action of sealing strata off IUMP: Manufacturer's Name ype: HP: VATER LEVELS: Land-surface elevation above mean sea level R. below top of well Date Artesian pressure flos per square inchr Date Artesian water is controlled by (cap, valve, etc.) VELL TESTS: Drawdown is amount water level is lowered below static level Vas a pump test made? Yes No If yes, by whom? Arteld: gal/min. with fl drawdown after hirs field: gal/min. with fl drawdown after hirs field: gal/min. with fl drawdown after hirs flecovery data (time taken as zeri when pump turned off) (water level measured from well op to water level) Fune Water Level Time Water Level Time Water Level Sailer test gal/min. with fl drawdown after hirs. Artesian flow gal/min with stem set at fl dr	Start Date (28.2) — Completion reported above are true to my best knowledge Drilling Company Address City, State, Zip Benting Company	N Z 8 Z008 N Z 8 Z008 THE REGION of the Date of the Complies	8-07 ance with all
Action of sealing strata off FUMP: Manufacturer's Name Sype: HP: WATER LEVELS: Land-surface elevation above mean sea level R. below top of well Date Artesian pressure Ibs per square inchr Date Artesian water is controlled by (cap, valve, etc.) WELL TESTS: Drawdown is amount water level is lowered below static level Was a pump test made? Yes No If yes, by whom? Arteld gal/min. with ft drawdown after hirs Arteld: gal/min. with ft drawdown after hirs Arteld: gal/min with ft drawdown after hirs Arteld: gal/min with ft drawdown after hirs Water Level Time Water Level Time Water Level Date of test gal/min. with ft drawdown after Artesian flow Baller test gal/min. with ft drawdown after Artesian flow Baller test gal/min. with Artesian flow Baller test Artesian flow	Start Date (28.) — Complete Complete Complete Complete Company (19.1) Company (19	N Z 8 Z008 N Z 8 Z008 THE REGION of the Date of the Complies	8-07 ance with all

	DI	17	Λ	0
⊡	BJ	1	U	\Im

WATED WELL DEDOOT	CURRENT	3. /	BBJ
WATER WELL REPORT Original & 1" copy - Ecology, 2nd copy - owner, 3rd copy - driller	Notice of Intent No. W 268 78	:6	
Construction/Decommission ("x" in circle) 330 192	Unique Ecology Well ID Tag No		9
Construction Construction	Water Right Permit No.		
O Decommission ORIGINAL INSTALLATION Notice	Property Owner Name Partilo	n. +	
of Intent Number			
PROPOSED USE: Domestic Industrial Municipal	Well Street Address	134.	
DeWater Irrigation Test Well Other	City Master County 4	2King	
TYPE'OF WORK: Owner's number of well (if more than one)	Location S 14-1/4 N 11/4 Sec 08 Twn 08	R23 EWM	circle.
New well	Lat/Long (s, t, r Lat Deg Lat		,
DIMENSIONS: Diameter of well inches, drilled ft. Depth of completed well ft.	Still REQUIRED) Long Deg Lor	ig Min/Sec	
CONSTRUCTION DETAILS	Tax Parcel No. 230808-23412	2	
Casing Swelded 6 " Diam. from +2 ft to 78 ft. <	CONSTRUCTION OR DECOMMISSION Formation: Describe by color; character, size of material and so nature of the material in each stratum penetrated, with at least	structure, and the	e kind and
Type of perforator used	information. (USE ADDITIONAL SHEETS IF NECES		en enange or
SIZE of perfs in. by in. and no. of perfs from ft. to ft.	WATERIAL	FROM	то
Screens:	Goarel	6	
Type	S: 1+ + C/Qy	5	10
Diam. Slot size from ft. to ft. Gravel/Filter packed: ☐ Yes ☐ Size of gravel/sand	Gravel	10	28
Surface Seal: Yes No To what depth? ft	Silt + Clay	28	35
Material used in seal	Gravel	33	82
Type of water? Depth of strata	•		
Method of sealing strata off			
PUMP: Manufacturer's Name			
WATER LEVELS: Land-surface elevation above mean sea level ft: Static level 23 ft. below top of well Date 6 22-10		• •	
Artesian pressurelbs. per square inchr Date			
Artesian water is controlled by (cap, valve, etc.)		1	
WELL TESTS: Drawdown is amount water level is lowered below static level			
Was a pump test made? ☐ Yes ☐ No If yes, by whom?			
Yield: gal/min, with ft. drawdown after hrs. Yield: gal/min, with ft. drawdown after hrs.	RECE	VED	
Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)		A bed bee	
Time Water Level Time Water Level Time Water Level	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2010	
	DEPARTMENT OF ECOLOGY -C	NTRAL REGIONAL (FFICE
Date of test	-		-
Bailer test gal /min with ft. drawdown after hrs.	,		
Airtest 40 gal/min with stem set at 25 ft. for / hrs.			
Artesian flow			
was a chemical analysis inade? U Yes U No	Start Date 10 22-10 Complete	d Date 6	22-18
WELL CONSTRUCTION CERTIFICATION: I constructed and/or active washington well construction standards. Materials used and the information of the construction of the con	ccept responsibility for construction of this well, and	l its complian	
Spriller Engineer Trainee Name (Print) Gary Lydin	Drilling Company Apple Valley	Well D	cilling
briller/Engineer/Trainee Signature	Address ROX	55	
Driller or trainee License No. 1023	City, State, Zip Selah u	JG.	A.
If TRAINEE, Driller's Licensed No.	Contractor's Registration No. AMIONWAY5 KQ	Date 6	22-10
Driller's Signature	Ecology is an	Equal Opportun	ity Employer.

t	
8	
e e	
~	
<u>a</u> ,	
s Well Rep	
S	
亳	
n this Wel	
0	
5	
.8	
2	
=	
ō	
heInfor	
e	
£	
-	
9	
B	
G	
Data and/or the Information	
e	
y the Data and/o	
ty the [
7	
£	
ırrant	
E	
ž	
NOT Warranty t	
O	
Z	
8	
Ŏ	
0	
6	
<u> </u>	
8	
ŭ	
ਠ	
#	
a a	
Ε	
ヹ	
8	
<u>a</u>	

WATER WELL REPORT

	Original & 1" copy - Ecology, 2" copy - owner, 3" copy -
DEPARTMENT OF ECOLOGY State of Washington Constr	Construction/Decommission ("x" in circle)
	amission ORIGINAL INSTALLATION
Decom	Notice of Intent Number

PROPOSED USE: ☐ Domestic ☐ Industrial ☐ Municipal ☐ DeWater ☐ Irrigation ☐ Test Well ☒ Other _ S T O UC
TYPE OF WORK: Owner's number of well (if more than one)
☑ New well ☐ Reconditioned Method : ☐ Dug ☐ Bored ☐ Bored ☐ Driven ☐ Deepened ☐ Cable ☑ Rotary ☐ Jetted DIMENSIONS: Diameter of well § inches, drilled765 ft.
Depth of completed well <u>765</u> ft.
CONSTRUCTION DETAILS
Casing ☑ Welded 10" Diam. from ±2 ft. to 138 ft. Installed: ☐ Liner installed 8" Diam. from 40 ft. to 340 ft. ☐ Threaded " Diam. From ft. to ft.
Perforations: Yes No
Type of perforator used
SIZE of perfsin. by in. and no. of perfsfromft. toft.
Screens: Yes No K-Pac Location
Manufacturer's Name
Type Model No
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.
Gravel/Filter packed: Yes No Size of gravel/sand Materials placed from ft. to ft.
Surface Seal: Yes □ No To what depth? 20ft.
Material used in seal BENTONITE
Did any strata contain unusable water? ☐ Yes ☐ No
Type of water? Sandy Depth of strata 320
Method of sealing strata off Bentonite
PUMP: Manufacturer's Name Type: H.P.
WATER LEVELS: Land-surface elevation above mean sea level ft.
Static level 296ft. below top of well Date 06/03/2015
AND
Artesian pressure lbs. per square inch Date
Artesian pressure lbs. per square inch Date (cap, valve, etc.)
Artesian water is controlled by (cap, valve, etc.) WELL TESTS: Drawdown is amount water level is lowered below static level
Artesian water is controlled by

CURRENT

Notice of Inter	nt No. WE20626	
Unique Ecolog	y Well ID Tag No. BIF 429	
Water Right Pe	ermit No.	
Property Owne	er Name Fransisca Vandermuelen	
Well Street Ad	dress 610 Christinsen rd.	
City Grandview	County Yakima	
Location <u>sw</u> 1/ (s, t, r Still R)	4-1/4 <u>SE</u> 1/4 Sec <u>8</u> Twn <u>8N</u> R <u>23E</u> EQUIRED)	EWM ⊠ Or WWM □
Lat/Long	Lat Deg Lat Min/Sec _	
	Long Deg Long Min/Sec _	
Tax Parcel N	Io. (Required)23080834003	

MATERIAL	FROM	TO
Top Soil	0	2
cobbles	2	6
Silty sand	6	17
Brown Clay	17	21
Silty Sand	21	49
Sand and Gravel	49	132
Black Basalt	132	205
Brown Clay	205	247
Sandstone	247	307
Black Basalt	307	391
Basalt	391	458
Broken Basalt	458	464
Black Basalt (hard)	464	687
Broken basalt (soft)	687	725
Soft Basalt	725	750
Hard Basalt	750	765
JUN 2 4 2015		

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.

☐ Driller ☐ Engineer ☒ Trainee	Name (Print) James Robling
Driller/Engineer/Trainee Signature	James Robling
Driller or trainee License No. 3156T	
IF TRAINEE: Driller's License No:	1224
Driller's Signature:	- Cimos
1)	

Drilling Company Triple A Drilling Inc. Address PO BOX 278 City, State, Zip Burbank , wa, 99323 Contractor's Registration No. TRIPLDIO937BB Date 06/04/2015

	WATER WELL REPORT	CURRENT		
	Original & 1st copy - Ecology, 2std copy - owner, 3std copy - driller	Notice of Intent No. WE 19505		
-	ECOLOGY Construction/Decommission ("x" in circle)	Unique Ecology Well ID Tag No. BFF	430	
3	State of Weshington Construction Decommission (x in circle)	Water Right Permit No		
ū	☐ Decommission ORIGINAL INSTALLATION	Property Owner Name FRH Enterpr	-:505	
	Notice of Intent Number			
Ū	PROPOSED USE: ☐ Domestic ☐ Industrial ☐ Municipal ☐ DeWater ☐ Irrigation ☐ Test Well ☒ Other lifstock	Well Street Address SAA & Kd		
=	TYPE OF WORK: Owner's number of well (if more than one)	City Mabton County Yaking		
2	☑ New well ☐ Reconditioned Method: ☐ Dug ☐ Bored ☐ Driven	Location SW14-1/4SV1/4 Sec 8 Twn 8N R 2	3E	EWM (E)
5	☐ Deepened ☐ Cable ☒ Rotary ☐ Jetted ☐ DIMENSIONS: Diameter of well 3 inches, drilled370 ft.	(s, t, r Still REQUIRED)	,	Or WWM []
5	Depth of completed well 370ft.			
29 :	CONSTRUCTION DETAILS	Lat/Long Lat Deg Lat Min/Se		
5	Casing ☑ Welded 10" Diam from +2 ft. to 125 ft. Installed: ☑ Liner installed 8" Diam from -50 ft. to 350 ft.	Long Deg Long Min/S		
ś	Threaded To Diam. From ft. to ft. Perforations: Yes No	Tax Parcel No. (Required) 23080833	201	
III O I I I I I I I I I I I I I I I I I	Type of perforator used	CONSTRUCTION OR DECOMMISSION P	ROCEDURI	7
Ξ	SIZE of perfs in. by in. and no. of perfs from ft. to ft.	Formation: Describe by color, character, size of material and	structure, and	the kind and
2	Screens: Yes No K-Pac Location	nature of the material in each stratum penetrated, with at least of information. (USE ADDITIONAL SHEETS IF NECESSA		each change
	Manufacturer's Name	MATERIAL	FROM	TO
U	Type Model No. DiamSlot size from ft. to ft.	Top soil	0	3
Ē	Diam. Slot size from ft. to ft.	silty sand	3	14
	Gravel/Filter packed: ☐ Yes ☒ No Size of gravel/sand	Clay (brown)	14	89
5/2	Materials placed fromft. toft.	Sand and gravel Black basalt	89 118	259
	Surface Seal: Yes No To what depth? 30ft.	Brown Sandstone	259	293
ē	Material used in seal bentonite	Brown Clay	293	313
9	Did any strata contain unusable water?	Green Clay	313	322
ĕ	Method of sealing strata off	Black Basalt	322	354
2	PIMP: Manufacturer's Name	Broken basalt	354 365	365
U	PUMP: Manufacturer's Name	Black Basalt	303	370
3	WATER LEVELS: Land-surface elevation above mean sea levelft.			1
-	Static level 218ft, below top of well Date 06/15/2015	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2000-00117-000	***************************************
Ē	Artesian pressurelbs. per square inch Date Artesian water is controlled by (cap, valve, etc.)			
	Artestan water is controlled by (cap, varve, etc.)			-
6	WELL TESTS: Drawdown is amount water level is lowered below static level			
=	Was a pump test made? ☐ Yes ☑ No If yes, by whom?	CRT OF ECOLO		-
-	Yield:gal/min. withft. drawdown afterhrs. Yield:gal/min. withft. drawdown afterhrs.	Received		
2	Yield:gal./min. withft. drawdown afterhrs.	JUN 2 4 2015		<u> </u>
-	Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)	00112 1 2010	· · · ·	
ß	Time Water Level Time Water Level Time Water Level	3		
3		PAI REGION WILL	***************************************	
300	Date of test			
2	Bailer testgal./min. withft. drawdown afterhrs.			-
?	Airtest 150+ gal/min. with stem set at 368ft. for 2hrs.			
7	Artesian flowgp.m. Date			
5	semborareno or marce 71, may a discrimon amen's 22 magge. [7] 1 cz. [73] 140			
-	WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept	Start Date 06/02/2015 Completed Da	te 06/18/20	015
ō	responsibility for construction of this well, and its compliance with all Washington v construction standards. Materials used and the information reported above are to			
	☐ Driller ☐ Engineer ☒ Trainee Name (Print) James Robling	Drilling Company TripleAdrilling Inc.		
3	Driller/Engineer/Traince Signature James Cobline	Address PO Box 278		
par milerin	Driller or trainee License No. 3156Ts IF TRAINEE: Driller's License No. 1224	City, State, Zip Burbank , Wa, Contractor's	99323	
Ú	Driller's Signature: Lo O. Quo2		5/18/2015	
	, -,			

File Original and First Copy with Department of Ecology Second(Ecopy Owner's Copy Third Copy Open Copy Third Copy

WATER WELL REPORT STATE OF WASHINGTON

File Original and First Copy with Department of Ecology Second(Copy - Owner's Copy Third Copy - Original Copy	WATER WELL REPORT STATE OF WASHINGTON	Application No. Permit No.	Ćł
(DOWNER: Name JOHN H. C	OMSTOCK Il, Address . P.O. Box	676 MIDSTON BURN	•
(2) EOCATION OF WELL: County YAK		MW / Sec & T & N R	v/M
	ner FRAMI NI W CAR 300 MAST & 500	11077	-
PROPOSED USE: Domestic Industr	La Section of the sec		1.
Irrigation Test W		character, size of material and structure; d the kind and nature of the material in e	and
(4) TYPE OF WORK: Owner's number of w	stratum penetrated, with at le	a the kind and nature of the material in e east one entry for each change of format	tion.
(4) TYPE OF WORK: Owner's number of w (if more than one) New well M Method: D	nug C Bored C) '
Deepened C	Cable Driven	\. \. F. F	5
	totary Jetted South & Fr		3,
	inches.		7
Drilled ft Depth of completed	well 11. It.		11
(6) CONSTRUCTION DETAILS:	ARNE		·, ·
Casing installed: 46 Diam from	tt. to 2 tt.		1
Threaded 19 Diam. from Diam. from Diam. from	ft to ft.		
Perforations Yes [No [LES TO BE LESS TO THE SECOND OF THE SECOND O		9
Type, of perforator used	77		19.3
SIZE of perforations in. b	y in. i. i.		
perforations from perforations from			i Sch
perforations from	- Annual Control (1997)		
Screens: Yes No			3,5
Manufacturer's Name		** The state of th	
Type Mod	el No		12
Slot size from	ft. to ft.	1.93 CSZ2	**
Gravel packed: Yes No Size of g	gravel:		
Gravel placed from ft. to		A. A	4
Surface seal: Yes No Do To what de	epth? 20 ft.		
			45
Dintary strata contain unusable water? Type of water? Depth of	strata	TO STATE OF THE PARTY OF THE PA	712
Method of sealing strata off	1		1.)
(7) PUMP: Manufacturer's Name	1 1 1	1	1913
, Type Land	H.P.	1000 B 2000 B	
(8) WATER LEVELS: Land-surface elevat	in which a fell to 1. I will the state of th		7
Static level (the low top) of well Artesian pressure (the low top) of well are to be a superior of the low top) of well are to be a superior of the low top) of well are to be a superior of the low top) of well are to be a superior of the low top) of well are to be a superior of the low top) of well are to be a superior of the low top) of well are to be a superior of the low top) of the l	Date		1000
Artesian water is controlled by	1 190 180		17
	ip, valve, etc.)		72 1
(9) WELL TESTS: Drawdown is amount lowered below static	level Work started 1712	, 19 7/4, Completed 4 19/	2
Was a pump test made? Yes \(\) No \(\bar{\bar{\bar{\bar{\bar{\bar{\bar{		PATEMENT:	13
	This well was drilled u	under my jurisdiction and this repor	rt is
	true to the best of my ki		1
Recovery data (time taken as zero when pump turn measured from well top to water level)	NAME SALL	s Dellas Con	te
	ime Water Levell, WANTE (Person, fire	m, or corporation) (Type or print)	1
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Address X4 2	Joy Dustill / Doute	*
Transfer (1997)			
ate of testy	[Signed]		1
gal/min with ft drawdo Artesian flow gp m Pate	A CONTRACTOR OF THE PARTY OF TH		19
Temperature of water Was, a chemical analysis	made? Yes No License No.	Date 1, 1 19	4

ECY 050-1-20 (10/87) -1329-

DAWSON

(1) OWNER: Name Manual Manual	Address 262 (histroson PD o	Whiton W	9
2) LOCATION OF WELL: County XOTHER PAIR & 33	0808 JUDI NE WSE W Sec 8 7"	8 , 23	3
(2a) STREET ADDDRESS OF WELL (or nearest address)	5F 171)		
(3) PROPOSED USE: Domestic Industrial Municipal	(10) WELL LOG OF ABANDONMENT PROCEDU	RE DESCRI	IPTI
Irrigation Industrial Willicham	Formation: Describe by color, character, size of material and thickness of aquiters and the kind and nature of the material in e	d structure, ar	ind a
(4) TYPE OF WORK: Owner's number of well (if more than one)	with at least one entry for each change of information. MATERIAL		то
Abandoned New well	Disk with and	0	7
Reconditioned Rotary \(\text{Started} \)	Assert on the King south		4.
(5) DIMENSIONS: Diameter of well inches.	Land Out Brook	4.7	101
Drilled feet. Depth of completed well ft.	Journa /	100 3	<u> </u>
(6) CONSTRUCTION DETAILS:			
Casing installed: /e Diam. from 7 / ft. to 80 ft.			7
Welded Diam from the th	,		
Liner installed	'a' 8		
Perforations: Yes No 🗵			
Type of perforator used.			7.7
SIZE of perforations in. by in.			. :
perforations from ft. to ft.			
periorations from			(S. 5)
partorations from		7.	
Screens: Yea No			
Type Model No			
Diam Slot size from tt. to tt.	100		
Diam: Slot/size from ft. to ft.			
Gravel packed: Yes No Size of gravel		7.	
Gravel placed from ft. to ft.	DEC 6 ISSA	3 4	
Surface seal: Yes No To what depth?	323 0 1000	7	•
Material used in seal			
Type of water? Depth of strata	- American Company	,	
Method of sealing strata off			
(7) PUMP: Manufacturer's Name		-	_
Type: H.P.			*
CO. WATER LEVEL C. Land-surface elevation	9		· ·
Static level			
Artesian pressure lbs. per square inch Date			
Artesian water is controlled by(Cap, valve, etc.))	7 1 2	17	
(9) WELL TESTS: Drawdown is amount water level is lowered below static level	Work started, 19. Completed		, 19.
Was a pump test made? Yes No If yes, by whom?	WELL CONSTRUCTOR CERTIFICATION:		
Yield:gal./min.withtt.drawdown afterhrs.	constructed and/or accept responsibility for cons		
10 37 b 8 51" Par 15 12 US	and its compliance with all Washington well con- Materials used and the information reported above		
Recovery data (time taken as zero when pump turned off) (water level measured	knowledge and belief.		
from well top to water level) Time Water Level Time Water Level	Bar Mary Ton		
	NAME (PERSON, FIRM, OR CORPORATION)	TYPE OR PI	RINT
	Address 2-1/ 3/ 1/2-8 T	PORROK	. (
Patrostant	V (. ()		
Date of test	7 1 1	to tem	~1
Bailer test gal./min. with ft. drawdown after hrs.	(Signed) (WELL DRILLER) License I	10. 77 -	

(USE ADDITIONAL SHEETS IF NECESSARY)



Department	and First Copy with
Second Cop	y - Owner's Copy - Driller's Copy
Third Copy	- Driller's Copy

WATER WELL REPOR

Ľ	4	Δ	1	V	T١	1	F	R	S	C	Ħ	1	1	T
		,	v	V		•	_		\sim	$\mathbf{\circ}$				

Application No.

	LOCATION OF WELL: County BENTON	W/Z - 25 16 SW 14 Sec B T. E	.N., R.	BEW.M
earl	ing and distance from section or subdivision corner ~ 100' 70'	S.E. Corner		_
	PROPOSED USE: Domestic St Industrial Municipal Irrigation St Test Well Other	(10) WELL LOG:	and -	her
		Formation: Describe by color, character, size of material show thickness of aquifers and the kind and nature of strutum penetrated, with at least one entry for each ch	he materia	il in eac
4)	TYPE OF WORK: Owner's number of well 1	MATERIAL	FROM	TO
	New well Method: Dug D Bored D	TOP SOIL		-
	Deepened Cable Driven Reconditioned Rotary Jetted	SANDY BR. CLAY & GRAVEL	6	85
_		GRAVEL MEDIUM SIZE& SAND	85	85
	DIMENSIONS: Diameter of well 8 inches.	60 G.P.M26 110'	03	
	Drilled 122 r. Depth of completed well 122 r.	BROWN CEMENT GRAVEL	111	116
6)	CONSTRUCTION DETAILS:	LOOSE SAND & GRAVEL & WATER	116	122
	Casing installed: 8 "Diam. from \$2. ft. to 1.18 ft.	- DALOR -		
	Threaded			
	Welded 7 Diam. from the to the		\vdash	
020				
	Perforations: Yes No El			<u> </u>
	Size of perforations in by in.		$\leftarrow \rightarrow$	
	perforations from			
	perforations from ft. to ft.	I	-	
	perforations from ft. to ft.		\longrightarrow	
	Screens: Yes D No G		+	
	Manufacturer's Name		+	
	Type Model No.	(
	Diam Slot size from ft. to ft.	ME CENTE		
	Diam. Slot size from ft. to ft.	111120511113	1	
	Gravel packed: Yes D No R Size of gravel:	1 11/1	(· · · · ·)	t
	Gravel placed from ft. to ft.		4:	
			4	
	Surface seal: yes & No To what depth? 40 n.	DEPOHTMENT OF E	+	
•	Material used in seal BENTONITE	THE MELLION.	+	
	Type of water? Depth of strata		1-1	
	Method of sealing strate off.		1	
<i>(-</i> :			$\vdash \neg$	T
(1)	PUMP: MARINE NAME LANKOCOM			
_				
• •	WATER LEVELS: Land-surface elevation above mean sea level 6/1/93			
	ic level 61 ft. below top of well Date 6/1/83		-	
arte	Artesian water is controlled by		اسل	
	Artesian water is controlled by (Cap, valve, etc.)		+	
100	WELT TESTS: Drawdown is amount water level is		<u></u>	
,	lowered below static level	Work started5/31/83 19 Completed 6/	11/83	, 19
Was:		THE PARTY OF THE P		
nel c	d: pal., min. with it. drawdown after hrs.		and .	المدا
-		This well was drilled under my jurisdiction true to the best of my knowledge and belief.	and this	eport :
Leci	overy data (time taken as zero when pump turned off) (water level			
1	measured from well top to water level)	NAME RIEBE WELL DRILLING (D.	B.J.TA	VYT.OP
7	ime Water Level Time Water Level Time Water Level		Type or p	
		Address 1603 P. NOB HILL BLVD.	-YAKII	dlyT
	Date of test	In VV. Non.		
	Date of testgal/min. withft; drawdown afterhrs.	[Signed] (Well Driller)		
	ler test gal/min. with it drawdown after hrs.			10
u-1		License No. 421 Dete 6/17	1	

WATER WELL REPORT

STATE OF WASHINGTON

Application	No.	

(1) UWNER: Name Manuel		
(2) LOCATION OF WELL: County Con	miller 5 E 4 SE 4 Sec 8 T 7 N. R2	?w.м.
Bearing and distance from section or subdivision former		J
	(10) WELL LOG:	
The state of the s		
Irrigation Test Well Other	Formation: Describe by color, character, size of material and structs show thickness of aquifers and the kind and nature of the material	in each
(4) TYPE OF WORK: Owner's number of well (if mgre than one)	strutum penetrated, with at least one entry for each change of for	mation.
New well Method: Dug Bored	MATERIAL FROM	то
Deepened 🗀 Cable Driven 🗆	- Jack of property	J
Reconditioned Rotary Jetted	- Stone Franks 3.	20
(5) DIMENSIONS: Diameter of well 6 inches	-0.0	/s 4
Drilled 100 ft. Depth of completed well 100 ft.	20 ·	5.0.
	1 1 5 1 0 11 5	
(6) CONSTRUCTION DETAILS:	- Clay Dandy & Vandery VO	60
Casing installed: 6 "Diam from 0 ft to 99 ft.		<u> </u>
Threaded D	Dandy Clay 60	20
Welded Diam. from ft. to ft.	4/ 1/ 1/	
Perforations: Yes No 2	- Travel muckey 80	XU.
Type of perforator used	B 11 10 1 30	~ #
SIZE of perforations in by in.	- According Triang 80.	70
perforations from tt. to	- Har 15 11 11	
perforations from it. to ft.	- Transfully	777
perforations from	- with Bulstro 95	100
Screens: Yes No		_
Manufacturer's Name		
Type Model No		
Diam. Slot size from ft. to ft.		
Diam. Slot size from ft. to ft.		
Gravel packed: Yes No Size of gravel:		
Gravel placed from ft. to ft.		
	Drom.	
Surface seal: Yes No D To what depth? ft.	I — IE = II = I	
Material used in seal		
Did any strata contain unusable water Yes No	1111 0 10	
Type of water?	- JOL 6 1977	
	DEPARTURE -	
(7) PUMP: Manufacturer's Name	CFITTAL DOOLS EGGLOSY	
Type: HP	- CERICE	
(8) WATER LEVELS: Land-surface elevation		
above mean sea level		
Artesian pressure the per square inch Date		
Artesian water is controlled by (Cap, valve, etc.)		
(Cap, vaive, etc.)		
(9) WELL TESTS: Drawdown is amount water level is lowered below static level	May 10 77	77
Was a pump test made? Yes No If yes, by whom?	Work started 11/04 10, 19 / Completed 11	19
Yield: gal./min. with ft. drawdown after hrs.	WELL DRILLER'S STATEMENT:	
	This well was drilled under my jurisdiction and this rep	nort ie
и и н	true to the best of my knowledge and belief.	POL 12
Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)	altonian DD1111	719
Time Water Level Time Water Level Time Water Level	NAME (12/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/	110
	(Person, firm, or corporation) (Type or print	.)
	Address _ / L L A H W A	541
	10 21 111-	
Date of test	[Signed] elmis & Ilma	1.
dler test 20 gal/min, with 15 ft. drawdown after 1 hrs.	(Well Driller)	
Artesian flow	0700	77
Temperature of water	License No. Date Date	19.//

WATER WELL REPORT STATE OF WASHINGTON

Application No Permit No BERTSCH

Tecology - Owner's Copy Driller's Copy STATE OF WASHINGTON		Permit No BERTSC		
		Permit No DEC		
N B BER!	5 Ba H			
yakima	E ALSIVA Se	. 9 T 8 N. R	23.w	
	D.S. A. CORVED OF.	Workinsing (RUCE	
	Formation: Describe by color, character, s	ize of material and str	ucture, o	
an of mall	stratum penetrated, with at least one ent	nd nature of the mater ry for each change of	ial in ed formati	
one)	MATERIAL	FROM	ТО	
	CLAN		19	
Rotary Jetted	CEMEUTED GOOD	el 95	1	
of well inches.			+	
			 - -	
			— —	
m ft. to ft.				
m / n w 1/0 n			ļ	
			-	
		1	+	
		1	 -	
		1	1	
			 	
			-	
			+	
m ft. to ft.			+	
ize of gravel:	RECEIV	/ E/n	1	
ft. to ft.	N LULIY	KD		
what depth?	UCT 194	70		
איני איני	00.16	70	<u> </u>	
- ' '	DEPARTMENT OF	FCOLOGY		
	CENTRAL REGIONAL	OFFICE		
		- STITULE		
sea level ft.			_	
e Inch Date			-	
THE DAY			+-	
(Cap, valve, etc.)			+	
amount water level is static level	Work started //- 11 - 10 7/ 00	moleted 10-1	3	
•			, 18	
" "	This well was drilled under my j	urisdiction and this nd belief.	report	
np turned off) (water level		1:1: /	2	
el Time Water Level	NAME WATKING	EILLING (0.	
I Time Water Level	(Person, firm, or corpore	tion) (Type or p	rint)	
		9/	/	
	Address To DOK S	45 /H SC	KALU	
	Address To Do	10)	KI.Zu	
rewdown after 2 hrs.	[Signed]	Acolino Oriller	KA Zu	
	Industrial Municipal Test Well Other Test Well Daved Test Well Date Test Well Date Test Well Date Test Well Date Test Well Other Test Well Date Test Well Other Test Well Date Test Well Other Test We	Industrial Municipal (10) WELL LOG: Test Well Other	Industrial Municipal Test Well Other Formation: Describe by color, cheructer, size of material and stream penetrated, with at least one entry for each change of stratum penetrated, with at least one entry for each change of material and stream penetrated, with at least one entry for each change of material and stream penetrated. With at least one entry for each change of material and stream penetrated, with at least one entry for each change of material and stream penetrated. Well at least one entry for each change of material and stream penetrated, with at least one entry for each change of material and stream penetrated. Well at least one entry for each change of material and stream penetrated, with at least one entry for each change of material and stream penetrated. Well at least one entry for each change of material and stream penetrated. Well at least one entry for each change of material and stream penetrated. Well at least one entry for each change of material and stream penetrated. Well at least one entry for each change of material and stream penetrated. Well at least one entry for each change of material and stream penetrated. Well at least one entry for each change of material and stream penetrated. Well at least one entry for each change of material and stream penetrated. Well at least one entry for each change of material and stream penetrated. Well at least one entry for each change of material and stream penetrated. Well at least one entry for each change of material and stream penetrated. Well at least one entry for each change of material and stream penetrated. Well at least one entry for each change of material and stream penetrated. Well at least one entry for each change of material and stream penetrated. Well at least one entry for each change of material and stream penetrated. Well at least one entry for each change of material and stream penetrated. Well at least one entry for each change of material and stream penetrated. Well at least one entry for each change of material and s	

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report

WATER WELL REPORT			
Original & 1st copy - Ecology, 2nd copy - owner, 3rd copy - driller	CURRENT		
(01067	Notice of Intent No. W 363396		
Construction/Decommission ("x" in circle)	Unique Ecology Well ID Tag No. BHT-360		
Construction CKD Decommission ORIGINAL INSTALLATION			
Notice of Intent Number	Water Right Permit No.		
PROPOSED USE: X Domestic Industrial Municipal	Property Owner Name MENSONIDES DAIR	Y	
DeWater Irrigation Test Well Other	Well Street Address S. PHILLIPS RD.		
TYPE OF WORK: Owner's number of well (if more than one)	City MABTON County	YAKIMA	<u> </u>
New well	Location NE 1/4-1/4 SW 1/4 Sec 09 Twn 08	_R <u>23</u> i	or On
DIMENSIONS: Diameter of well 6 inches, drilled 225 ft. Depth of completed well 220 ft.	(s, t, r Still REQUIRED)		Or WWM ☐ On
CONSTRUCTION DETAILS		in/Sec _	
Casing Welded 6 Diam from +1 ft to 90 ft	Long Deg Long	Min/Sec	
Installed: Ex Liner installed 4 1/2 " Diam. from 80 ft. to 220 ft.	Tax Parcel No. (Required) 230809-31002		
Threaded * Diam. From ft. to ft.	1		
Perforations X Yes No	CONSTRUCTION OR DECOMMISSION PROCED Formation: Describe by color, character, size of material and	URE I structure and	d the kind and
Type of perforator used SKILL SAW	nature of the material in each stratum penetrated, with at lea	st one entry fo	or each change
SIZE of perfs 3/16 in by 5 in and no of perfs 110 from 160 ft. to 220 ft.	of information. (USE ADDITIONAL SHEETS IF NECESS.	ARY.)	
Screens: Yes No K-Pac Location	MATERIAL	FROM	TO
Manufacturer's Name	TOPSOIL	0	9
Diam Slataira from the ft	BROWN CLAY & BROWN SAND	9	43
Type Model No. Diam. Slot size from ft. to ft. Diam. Slot size from ft. to ft.	BROWN CLAY & BROWN SAND &	43	47
Gravel/Filter packed: Yes X No Size of gravel/sand	BROWN SANDSTONE & BASALT GRAVEL		1
Materials placed from ft. to ft.	STIFF BROWN CLAY	47	54
Surface Seal: X Yes No To what depth? 23 ft.	BR. CLAY & BR. SAND & GRAVEL	54	64
Material used in seal BENTONITE	BROWN SAND & GRAVEL & WATER	64	89
Did any strata contain urusable water? Yes X No	BROWN AND GRAY BASALT	89	90
	GRAY BASALT	90	97
Type of water? Depth of strata	BROWN BASALT	97	106
Method of sealing strata off	GRAY BASALT	106	147
PUMP: Manufacturer's Name	BROWN SANDSTONE & BROWN CLAY	161	161
Туре: Н.Р.	BR. SANDSTONE & BR. CLAY & WATER	176	197
WATER LEVELS: Land-surface elevation above mean sea level ft.	BLUE-GRAY CLAY	197	206
Static level 99 ft. below top of well Date 6-16-14	GREEN AND GRAY SANDSTONE & HARD GREEN CLAY & WATER	151	200
Artesian pressure lbs. per square inch Date	LIGHT BLUE CLAY & LIGHT BLUE	206	222
Artesian water is controlled by (cap, valve, etc.)	SANDSTONE & WATER LAYERS	200	
WELL TESTS: Drawdown is amount water level is lowered below static level	GRAY SANDSTONE & GRAY SAND	222	225
Was a pump test made? Yes 💌 No If yes, by whom?	GRAT SANDSTONE & GRAT SAND		
Yield: gal/min. with ft. drawdown after lns.		1	
Yield: gal/min. with ft. drawdown after hrs. Yield: gal/min. with ft. drawdown after hrs.	OF ECOLO	1	
Recovery data (time taken as zero when pump turned off) (water level measured from well	Received		
top to water level)			
Time Water Level Time Water Level Time Water Level	OCT 1 3 2014		
	2 &		
	SAN BECKWEE		
Date of test	AI RECIUM	-	
Bailer Test gal./min. with ft. drawdown after hrs.			
Airtest 40 gal/min. with stem set at 220 ft. for 1 hrs.			
Artesian flow g.p.m. Date 6-16-14		. 6161	4
Temperature of water 64 Was a chemical analysis made? ☐ Yes ➤ No	Start Date 6-11-14 Completed Da	te 0-10-1	4

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

Driller Engineer Trainee Name (Bint) DERRICK RANK Drilling Company OASIS DRILLING LLC

Driller/Engineer/Trainee Signature License No. 2927

City, State, Zip UNION GAP, WA, 98903

IF TRAINEE: Driller's License No:
Driller's Signature:

Contractor's
Registration No. OASISDL914LH Date 6-17-14

ECY 050-1-20 (Rev 4/07)

Ecology is an Equal Opportunity Employer

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report

WATER WELL REPORT CURRENT Original & 1 st copy - Ecology, 2nd copy - owner, 3rd copy - driller Notice of Intent No. W 363397 Construction/Decommission ("x" in circle) Unique Ecology Well ID Tag No. BHT-361 X Construction (RO Decommission ORIGINAL INSTALLATION Water Right Permit No. Notice of Intent Number Property Owner Name MENSONIDES DAIRY PROPOSED USE: | Domestic ☐ Industrial Municipal Well Street Address 151 S. PHILLIPS RD. DeWater Irrigation Test Well Other TYPE OF WORK: Owner's number of well (if more than one) City MABTON County YAKIMA × New well Reconditioned Method: Dug ☐ Bored

Rotary ☐ Driven Cable Location NW 1/4-1/4 NW 1/4 Sec 09 Twn 08 R 23 EWM . Check ☐ Deepened _ Jetted DIMENSIONS: Diameter of well 6 wwm One inches, drilled (s, t, r Still REQUIRED) Depth of completed well 180 CONSTRUCTION DETAILS Lat Min/Sec Lat/Long Lat Deg * Diam. from +1 ft. to 70 **≭** Welded * Diam. from 60 ft. to 180 Long Deg Long Min/Sec Installed: X Liner installed 4 1/2 " Diam. From Tax Parcel No. (Required) 230809-22002 ☐ Threaded Perforations: X Yes No CONSTRUCTION OR DECOMMISSION PROCEDURE Type of perforator used SKILL SAW Formation: Describe by color, character, size of material and structure, and the kind and nature of the material in each stratum penetrated, with at least one entry for each change SIZE of perfs 3/16 in. by 5 in. and no. of perfs 80 from 140 ft. to 180 ft. of information. (USE ADDITIONAL SHEETS IF NECESSARY.) Screens: Yes No K-Pac MATERIAL FROM TO Mamifacturer's Name Model No. Type BROKEN BROWN AND GRAV BASALT Diam. Slot size from ft. to ft. Slot size Diam. from ft. Gravel/Filter packed: ☐ Yes 🗷 No Size of gravel/sand Materials placed from ft. to Surface Seal: X Yes No To what depth? 25
Material used in seal BENTONITE 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. WATER LEVELS: Land-surface elevation above mean sea level ft. below top of well Date 6-23-14 Static level 48 Artesian pressure _lbs. per square inch Date Artesian water is controlled by (cap, valve, etc.)

WELLTE	ESTS: Dra	wdown	is amount wa	ter level is lower	ed below sta	rtic level
Was a pu	ımp test n	nade?	Yes 🕱	No If yes, by	whom?	
Yield:		gal/min	with	ft. drawdown	after	hrs.
Yield:		gal/min	. with	ft. drawdown	after	hrs.
Yield:	8	al/min.	with	ft. drawdown	after	hrs.
Recover	y data (tin	ne taker	as zero wher	pump turned o	ff) (water lev	el measured from we
top to w	rater level)				
Time	Water I	evel	Time	Water Level	Time	Water Level
			-			
Date of	test					
Bailer Te	est	8	al/min. with	ft. dre	wdown after	hrs.
Airtest	23	_gal/m	in. with stem s	set at _180	ft. for1	hrs.
Artesian	flow		g.p.m. Dat	te 6-23-14		
Temperal	ture of wa	ter 70	Was	chemical analys	is made?	□ Vas W No

Diam. Slot size from ft. to ft.	BROKEN BROWN I BED GREET BROKES		
Diam. Slot size from ft. to ft.	& GRAVEL		
Gravel/Filter packed: Yes X No Size of gravel/sand	BROWN SAND & BROWN CLAY & GRAVEL	32	54
/aterials placed from ft. ft.	BROWN SAND & GRAVEL & WATER	54	69
Surface Seal: X Yes No To what depth? 25 ft.	GRAY BASALT	69	99
Material used in seal BENTONITE	GRAY BASALT & PYRITE	99	107
Did any strata contain unusable water? Yes X No	GRAY BASALT	107	113
	BROWN SANDSTONE	113	124
Type of water? Depth of strata	STIFF BROWN CLAY	124	137
Method of sealing strata off	BR. CLAY & BR. SANDSTONE & WATER	137	156
PUMP: Manufacturer's Name	GRAY CLAY	156	161
Туре:	STIFF GREEN CLAY	161	168
WATER LEVELS: Land-surface elevation above mean sea levelft.	GREEN CLAY & GREEN SANDSTONE	168	180
Static level 48 ft. below top of well Date 6-23-14	& WATER		
Artesian pressure lbs. per square inch Date			
Artesian water is controlled by (cap, valve, etc.)			
WELL TESTS: Drawdown is amount water level is lowered below static level			
Was a pump test made? Yes No If yes, by whom? Yield: gal/min. with ft. drawdown after hrs. Yield: gal/min. with ft. drawdown after hrs.	OF ECO		
field: gal/min. with ft. drewdown after hrs.	OF Received	122	
fi. drawdown after hrs.	/ Hersiven		
Recovery data (time taken as zero when pump turned off) (water level measured from well	OCT 1 3 201	4	
op to water level)	901 1 3 201	4	
ime Water Level Time Water Level Time Water Level		i	
	````	nc4	
	CAMPAI PECION O	ř	
	- 711.50		
Date of test			
Bailer Test gal./min. with ft. drawdown after hrs.			
artest 23 gal/min. with stem set at 180 ft. for 1 hrs.			
artesian flow g.p.m. Date 6-23-14			
Temperature of water _70	Start Date 6-17-14 Completed Date	6-23-14	

construction standards. Materials used and the information reported above are true to	my best knowledge and belief.	
■Driller□Engineer□ Trainee Name (Fint) DERRICK RANK	Drilling Company OASIS DRILLIN	G LLC
Driller/Engineer/Trainee Signature Nextch Kank	Address 2017 S. 16TH AVE.	
Driller or trainee License No. 2927	City, State, Zip UNION GAP	. WA . 98903
IF TRAINEE: Driller's License No:		_ , ,
Driller's Signature:	Contractor's  OASISDI 9141.H	Date 6-24-14

ECY 050-1-20 (Rev 4/07)

Ecology is an Equal Opportunity Employer

# The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report

	_			
-	3	•		į
			1	
		•		
111		1 6		,

# WATER WELL REPORT

Original & 1st copy - Ecology, 2nd copy - owner, 3rd copy - driller

CURRENT

Construction/Decommission ("x" in circle) Construction CRO

O Decommission ORIGINAL INSTALLATION Notice

of Intent Number	Well Street Address 151 S. F
PROPOSED USE: ☐ Domestic ☐ Industrial ☐ Municipal ☐ DeWater ☐ Irrigation ☐ Test Well ☐ Other	City Mabton County C
TYPE OF WORK: Owner's number of well (if more than one)	Location NE/4-1/4SW 1/4 Sec 9 Twn 8
New well	Lat/Long (s, t, r Lat Deg
DIMENSIONS: Diameter of well $\frac{g^{11}}{252}$ inches, drilled $\frac{260}{1}$ ft.	Still REQUIRED) Long Deg
CONSTRUCTION DETAILS  Casing Welded 10 Diam. from 11 ft. to 78 ft.  Installed: Threaded Diam. from 6 ft. to 252 ft.  Perforations: Des No	Tax Parcel No. 23080913
Installed: Deliner installed 6" Diam. from - 6 ft. to 252 ft.	CONSTRUCTION OR DECOMMISS
Perforations: Des Des No Type of perforator used SK: 11 Squ	Formation: Describe by color, character, size of material nature of the material in each stratum penetrated, with at I
SIZE of perfs 1/2 in. by b in. and no. of perfs 80 from 192f. to 252.	information. (USE ADDITIONAL SHEETS IF NE MATERIAL
Screens:	Top soil + 5:1+
Manufacturer's Name	Cement Sand + Grace
Type         Model No.           Diam.         Slot size         from         ft. to         ft.           Diam.         Slot size         from         ft. to         ft.	Basalt (Black
Diam. Slot size from ft. to ft.	Brown Sand stone
Gravel/Filter packed: ☐ Yes ☐ Yo ☐ Size of gravel/sand	Tan clay
Surface Seal: Pes No To what depth? 30 ft.	breen clay
Material used in seal Bentonite	white Sand
Did any strata contain unusable water?	Black Basalt
Type of water? Depth of strata	Direck Basail
Method of sealing strata off	
PUMP: Manufacturer's Name	
Type: H.P	
WATER LEVELS: Land-surface elevation above mean sea levelft.	
Static level 91 ft. below top of well Date 6-10-1 4	
Artesian pressure lbs. per square inchr Date	
Artesian water is controlled by(cap, valve, etc.)	
WELL TESTS: Drawdown is amount water level is lowered below static level	
Was a pump test made? ☐ Yes ☐ No If yes, by whom?	
Yield: gal./min. with ft. drawdown after hrs.	
Yield:     gal/min. with     ft. drawdown after     hrs.       Yield:     gal/min. with     ft. drawdown after     hrs.	
Recovery data (time taken as zero when pump turned off) (water level measured from well	CPT OF EC
top to water level)	Receive
Time Water Level Time Water Level Time Water Level	OCT 1 -
	50/1/20
Date of test	3
Date of test  Bailer test gal/min. with ft. drawdown after hrs.	3 Projection Vi
Airtest 50 gal./min. with stem set at 748 ft. for 2 hrs.	PEGION OF
Artesian flow	
Temperature of water 57° Was a chemical analysis made? ☐ Yes ☐ Yo	,
remperature of water was a chemical analysis made? Lifes 140	
	Start Date June 6, 2014 Com

Unique Ecology Well ID Tag No. BIF 445  Water Right Permit No.  Property Owner Name  Well Street Address  IS   S. Fisher Rd  City Mabton County Makima  Location/E/4-1/45W 1/4 Sec Twn8N/R23 or circle one  WWM Lat/Long (s, t, r Lat Deg Lat Min/Sec  Still REQUIRED)  Long Deg Long Min/Sec  Tax Parcel No. 23 D8 09 13006  CONSTRUCTION OR DECOMMISSION PROCEDURE  Formation. Describe by color, character, size of material and structure, and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information. (USE ADDITIONAL SHEETS IF NECESSARY.)  MATERIAL  Top Soil + Silt 0 14  Comment Sand + Frace 1 14  Basalt CBlack 78  II6  Brown Sand stone  116 139  Tan Clay 139 161  Green Sand stone  1172 220  Mh?t. Sand 172 220	Notice of Intent No. WE 183	10	
Water Right Permit No.  Property Owner Name  Well Street Address  ISI S. Fisher Rd  City Mabton County Makina  Location NE1/4-1/45W 1/4 Sec Twn RN R23 Wood one  Lat/Long (s, t, r Lat Deg Lat Min/Sec  Still REQUIRED)  Long Deg Long Min/Sec  Tax Parcel No.  23080913006  CONSTRUCTION OR DECOMMISSION PROCEDURE  Formation: Describe by color, character, size of material and structure, and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information. (USE ADDITIONAL SHEETS IF NECESSARY.)  MATERIAL  FROM TO  Top Soil + Silt O 14  Centent Sand + Grace 1 14 78  Basalt (Black 78 116  Brown Sand stone 119 139  Tan Clay 139 161  Green Sand stone 172 220  white Sand	Unique Ecology Well ID Tag No. BJ	F 445	5
Well Street Address 1515. Fisher Rd  City Mabton County Makima  Location NE1/4-1/45W 1/4 Sec Twn N R23 worder one  Lat/Long (s, t, r Lat Deg Lat Min/Sec  Still REQUIRED) Long Deg Long Min/Sec  Tax Parcel No. 23080913006  CONSTRUCTION OR DECOMMISSION PROCEDURE  Formation: Describe by color, character, size of material and structure, and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information. (USE ADDITIONAL SHEETS IF NECESSARY.)  MATERIAL FROM TO  Top Soil + Silt D 144  Censent Sand + Grace 1 14 78  Basalt (Black 78 116  Brown Sand Stone 116 139  Tan Clay 139 161  Green Sand Stone 172 220  white Sand 220 239	Water Right Permit No.		
Well Street Address 1515. Fisher Rd  City Mabton County Makima  Location NE1/4-1/45W 1/4 Sec Twn N R23 worder one  Lat/Long (s, t, r Lat Deg Lat Min/Sec  Still REQUIRED) Long Deg Long Min/Sec  Tax Parcel No. 23080913006  CONSTRUCTION OR DECOMMISSION PROCEDURE  Formation: Describe by color, character, size of material and structure, and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information. (USE ADDITIONAL SHEETS IF NECESSARY.)  MATERIAL FROM TO  Top Soil + Silt D 144  Censent Sand + Grace 1 14 78  Basalt (Black 78 116  Brown Sand Stone 116 139  Tan Clay 139 161  Green Sand Stone 172 220  white Sand 220 239	Property Owner Name JRAV	isisca'	Vander
City Mabton County Makina  Location NE1/4-1/45W 1/4 Sec Twn RN R23 W or one  Lat/Long (s, t, r Lat Deg Lat Min/Sec  Still REQUIRED) Long Deg Long Min/Sec  Tax Parcel No. 23080913006  CONSTRUCTION OR DECOMMISSION PROCEDURE  Formation: Describe by color, character, size of material and structure, and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information. (USE ADDITIONAL SHEETS IF NECESSARY.)  MATERIAL FROM TO  Top Soil + Silt D 14  Cennent Sand + Grace 1 14  Brown Sand stone 116 139  Tan Clay 139 161  Green Sand stone 172 220  white Sand Sand stone 172 220  white Sand 172 220  white Sand 239	Well Street Address 151 5. Fis	her Rd	2
Location NE1/4-1/4 Sw 1/4 Sec Twn N R R R S Circle one  Lat/Long (s, t, r Lat Deg Lat Min/Sec  Still REQUIRED) Long Deg Long Min/Sec  Tax Parcel No. 2080913006  CONSTRUCTION OR DECOMMISSION PROCEDURE  Formation: Describe by color, character, size of material and structure, and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information. (USE ADDITIONAL SHEETS IF NECESSARY.)  MATERIAL FROM TO  Top Soil + Sitt 0 14  Cement Sand + Grace 1 14 78  Bosalt (Black 78 116  Brown Sand stone 139 161  Green Sand stone 172 220  white Sand 172 220  white Sand 239			
Lat/Long (s, t, r Lat Deg Lat Min/Sec	Location N E 1/4-1/4 SW 1/4 Sec 9 Twn 80	R23 W	circle
Still REQUIRED)  Long Deg Long Min/Sec  Tax Parcel No 23 D8 b9   3006  CONSTRUCTION OR DECOMMISSION PROCEDURE  Formation: Describe by color, character, size of material and structure, and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information. (USE ADDITIONAL SHEETS IF NECESSARY.)  MATERIAL FROM TO  Top Soil + Silt D 14  Celment Sand + Grace   14 78  Basalt (Black 78 116  Brown Sand stone 116 139  Tan Clay 139 161  Green Sand stone 172 220  white Sand 220 239		www	
Tax Parcel No. 230809 3006  CONSTRUCTION OR DECOMMISSION PROCEDURE  Formation: Describe by color, character, size of material and structure, and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information. (USE ADDITIONAL SHEETS IF NECESSARY.)  MATERIAL FROM TO  Top Soil + Sitt 0 14  Cement Sand + Grace 1 14 78  Bosalt (Black 78 116  Brown Sand stone 116 139  Tan Clay 139 (61  Green Sand stone 172 220  white Sand 239			
Tax Parcel No. 230809 3006  CONSTRUCTION OR DECOMMISSION PROCEDURE  Formation: Describe by color, character, size of material and structure, and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information. (USE ADDITIONAL SHEETS IF NECESSARY.)  MATERIAL FROM TO  Top Soil + Sitt 0 14  Cement Sand + Grace 1 14 78  Bosalt (Black 78 116  Brown Sand stone 116 139  Tan Clay 139 (61  Green Sand stone 172 220  white Sand 239	Still REQUIRED) Long Deg Lo	ng Min/Sec	
CONSTRUCTION OR DECOMMISSION PROCEDURE  Formation: Describe by color, character, size of material and structure, and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information. (USE ADDITIONAL SHEETS IF NECESSARY.)  MATERIAL  FROM  TO  Top Soil + Sith  Cement Sand + Grace 1 14 78  Bosalt (Black  Brown Sand stone  116 139  Tan Clay  139 161  Green Sand stone  1172 220  white Sand	Tay Parcel No. 230809130	06	
Formation: Describe by color, character, size of material and structure, and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information. (USE ADDITIONAL SHEETS IF NECESSARY.)  MATERIAL FROM TO  Top Soil + Sith O 14  Cement Sand + Gracel 14 78  Bosalt (Black 78 116  Brown Sand stone 116 139  Tan Clay 139 (61  Green Sand stone 172 220  white Sand	14X 1 41001 140.		
nature of the material in each stratum penetrated, with at least one entry for each change of information. (USE ADDITIONAL SHEETS IF NECESSARY.)  MATERIAL  FROM  TO  Top Soil + Silt  Cement Sand + Gracel 144 78  Bosalt (Black  Brown Sand stone 116 139  Tan Clay 139 (61)  Green Sand stone 172 220  white Sand	CONSTRUCTION OR DECOMMISSIO	N PROCEDU	RE
information. (USE ADDITIONAL SHEETS IF NECESSARY.)  MATERIAL  FROM  TO  Top Soil + Silt  Cement Sand + Gracel 14 78  Basalt (Black  Brown Sand stone 116 139  Tan Clay 139 161  Green Clay 161 172  Green Sand stone 172 220  white Sand			
Top soil + Silt 0 14  Coment Sand + Gracel 14 78  Basalt (Black 78 116  Brown Sand stone 116 139  Tan Clay 139 161  Green Sand stone 161 172  Green Sand stone 172 220  white Sand 220 239			
Cement Sand + Grace 1 14 78  Basalt (Black 78 116  Brown Sand stone 116 139  Tan Clay 139 161  Green Clay 161 172  Green Sand stone 172 220  white Sand 220 239			
Basalt (Black 78 116 Brown Sand stone 116 139 Tan Clay 139 161 Green clay 161 172 Green Sand stone 172 220 white Sand 220 239	Top Soil + Silt		
Brown Sand stone 116 139 Tan Clay 139 161 Green clay 161 172 Green Sand stone 172 220 white Sand 220 239		79	
Tan Clay 139 161  Green clay 161 172  Green Sandstone 172 220  white Sand 220 239		18	
Green Sandstane 172 220 white Sand 220 239		-	
Green Sandstone 172 220 white Sand 220 239			
white Sand 220 239	Green clay	1	
3.000		-	
Black Basalt #5751 260			
	Black Basalt	#5T 157	260
		-	
	***************************************		
		ļ	
		<del>                                     </del>	
		-	
SEPT OF ECO	SEPT OF ECOL		
Received 52	Meceived	1	
OCT 1 7 2014	0CT 1 7 200		

WELL CONSTRUCTION CERTIFIC	ATION: 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.

B Driller □ Engineer & Trainee Name (Print) _	James Robling
Driller/Engineer/Trainee Signature	up Robling
Driller or trainee License No. 3150 T	

Drilling Company _	Iriple A	Drillin	9 Jin
Address TO	B0X 27	8	
City, State, Zip	Subank 1	NA	

If TRAINEE, Driller's Licensed No.	1224	
Driller's Signature	71.0. and	

City, State, Zip	
Contractor's	
Registration No. TRIPLOTO 9378BDate	

Completed Date Tune 1114