

Groundwater Application Review Summary Form

Application # G- 18574

GW Reviewer DEAN OPLOWSKI

Date Review Completed: 3/16/18

Summary of GW Availability and Injury Review:

Groundwater for the proposed use is either over appropriated, will not likely be available in the amounts requested without injury to prior water rights, OR will not likely be available within the capacity of the groundwater resource per Section B of the attached review form.

Summary of Potential for Substantial Interference Review:

There is the potential for substantial interference per Section C of the attached review form.

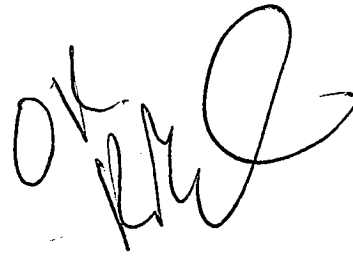
Summary of Well Construction Assessment:

The well does not appear to meet current well construction standards per Section D of the attached review form. Route through Well Construction and Compliance Section.

or 8/17/18

This is only a summary. Documentation is attached and should be read thoroughly to understand the basis for determinations and for conditions that may be necessary for a permit (if one is issued).

MEMO



To: Kristopher Byrd, Well Construction and Compliance Section Manager
From: Joel Jeffery, Well Construction Program Coordinator
Subject: Review of Water Right Application G-18574
Date: August 21, 2018

The attached application was forwarded to the Well Construction and Compliance Section by Water Rights. Dennis Orlowski reviewed the application. Please see Dennis's Groundwater Review and the Well Logs.

Applicant's Well #1 (POLK 52023): Based on a review of the well report, Applicant's Well #1 seems to protect the groundwater resource

The construction of Applicant's Well #1 may not satisfy hydraulic connection issues.

Applicant's Well #2 (POLK 3227): Based on a review of the well report, Applicant's Well #2 does not appear to comply with current minimum well construction standards (See OAR 690 Division 210). The well report indicates that the well is currently sealed to a depth of 25 feet below ground surface. In order to meet minimum well construction standards the well must be continuously cased and continuously sealed to a minimum depth of 39 feet below land surface.

My recommendation is that the Department **not issue** a permit for Applicant's Well #2 (POLK 3227) unless it is brought into compliance with current minimum well construction standards or information is provided showing that it is in compliance with current minimum well construction standards.

Bringing Applicant's Well #2 into compliance with minimum well construction standards may not satisfy hydraulic connection issues.

Applicant's Well #3 (POLK 375): Based on a review of the well report, Applicant's Well #3 does not appear to comply with current minimum well construction standards (See OAR 690 Division 210). The well report indicates that the well is currently sealed to a depth of 18 feet below ground surface. In order to meet minimum well construction standards the well must be continuously cased and continuously sealed to a minimum depth of 50 feet below land surface.

My recommendation is that the Department **not issue** a permit for Applicant's Well #3 (POLK 375) unless it is brought into compliance with current minimum well construction standards or information is provided showing that it is in compliance with current minimum well construction standards.

Bringing Applicant's Well #3 into compliance with minimum well construction standards may not satisfy hydraulic connection issues.

STATE OF OREGON
WATER SUPPLY WELL REPORT
 (as required by ORS 537.765)

(WELL I.D.)# L 65554
 (START CARD) # 168050

Instructions for completing this report are on the last page of this form.

(1) OWNER: Well Number 1
 Name Don & Sharon Roberts - Clay & Rhonda Johnson
 Address 3395 Pacific Hwy
 City Independence, State OR Zip 97351

(2) TYPE OF WORK
 New Well Deepening Alteration (repair/recondition) Abandonment

(3) DRILL METHOD:
 Rotary Air Rotary Mud Cable Auger
 Other

(4) PROPOSED USE:
 Domestic Community Industrial Irrigation
 Thermal Injection Livestock Other

(5) BORE HOLE CONSTRUCTION:
 Special Construction approval Yes No Depth of Completed Well 260 ft.
 Explosives used Yes No Type _____ Amount _____

HOLE			SEAL			
Diameter	From	To	Material	From	To	Sacks or pounds
10"	0	18	Bentonite	0	18	9 bags
6"	18	260				

How was seal placed: Method A B C D E
 Other Filled to top with dry bentonite
 Backfill placed from _____ ft. to _____ ft. Material _____
 Gravel placed from _____ ft. to _____ ft. Size of gravel _____

(6) CASING/LINER:

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing: 6"	+1	61	250	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liner:				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Final location of shoe(s) 61'

(7) PERFORATIONS/SCREENS:

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
22	30	.250	120	1" long	6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>
40	50	.250	120	1" long	6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>

(8) WELL TESTS: Minimum testing time is 1 hour

Yield gal/min	Drawdown	Drill stem at	Flowing Time
20		60'	1 hr.

Pump Bailer Air Flowing Artesian

Temperature of water 53° Depth Artesian Flow Found _____
 Was a water analysis done? Yes By whom _____
 Did any strata contain water not suitable for intended use? Too little
 Salty Muddy Odor Colored Other _____
 Depth of strata: _____

(9) LOCATION OF WELL by legal description:
 County Polk Latitude _____ Longitude _____
 Township 8 S Range 4 W WM.
 Section 18 NE 1/4 SW 1/4
 Tax Lot 202 Lot _____ Block _____ Subdivision _____
 Street Address of Well (or nearest address) Same

(10) STATIC WATER LEVEL:
12' ft. below land surface. Date 8/12/2004
 Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:
 Depth at which water was first found 22'

From	To	Estimated Flow Rate	SWL
22	33	3 GPM	12
40	50	7 GPM	12
63	71	10 GPM	

(12) WELL LOG:
 Ground Elevation _____

Material	From	To	SWL
Brown clay - gray blue clay sandy	0	3	
Gravels - sandy gray blue clay - small	3	22	12
Gravels - sandy blue clay small	22	33	
Gray blue clay black sand	33	52	
Gray blue clay sandy	52	63	
Sand blue black pea gravel	63	71	
Gray brown clay firm	71	260	

Ron Robinson Well Drilling
 4520 Salem Dallas Hwy NW
 Salem, OR 97304
 503.371.1844

RECEIVED

AUG 23 2004

WATER RESOURCES DEPT
 SALEM, OREGON

Date started 8/9/2004 Completed 8/12/2004

(unbonded) Water Well Constructor Certification:
 I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

WWC Number _____
 Signed _____ Date _____

(bonded) Water Well Constructor Certification:
 I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 1585
 Signed _____ Date 8/13/2004

ORIGINAL & FIRST COPY-WATER RESOURCES DEPARTMENT SECOND COPY-CONSTRUCTOR THIRD COPY-CUSTOMER

RECEIVED
 OVER THE COUNTER

PUBLIC INTEREST REVIEW FOR GROUNDWATER APPLICATIONS

TO: Water Rights Section Date August 16, 2018
 FROM: Groundwater Section Dennis Orłowski
 Reviewer's Name
 SUBJECT: Application G- 18574 Supersedes review of _____
 Date of Review(s)

PUBLIC INTEREST PRESUMPTION; GROUNDWATER

OAR 690-310-130 (1) *The Department shall presume that a proposed groundwater use will ensure the preservation of the public welfare, safety and health as described in ORS 537.525.* Department staff review groundwater applications under OAR 690-310-140 to determine whether the presumption is established. OAR 690-310-140 allows the proposed use be modified or conditioned to meet the presumption criteria. **This review is based upon available information and agency policies in place at the time of evaluation.**

A. GENERAL INFORMATION: Applicant's Name: Bob Holding Co. LLC County: Polk

A1. Applicant(s) seek(s) 0.2139 (*see note) cfs from three well(s) in the Willamette Basin,
Willamette subbasin

A2. Proposed use Nursery (49.23 acres) Seasonality: 1/1 – 12/31

A3. Well and aquifer data (attach and number logs for existing wells; mark proposed wells as such under logid):

Well	Logid	Applicant's Well #	Proposed Aquifer*	Proposed Rate(cfs)	Location (T/R-S QQ-Q)	Location, metes and bounds, e.g. 2250' N, 1200' E fr NW cor S 36
1	POLK 52023	1	Alluvium	0.0446	T8S/R4W-18 NW-NW	300'S, 937'E fr NW cor S 18
2	POLK 3227	2	Alluvium	0.0891	T8S/R4W-7 SW-SW	835' N, 1080' E fr SW cor S 7
3	POLK 375	3	Alluvium	0.0802	T8S/R4W-7 SW-SW	540' N, 1080' E fr SW cor S 7

* Alluvium, CRB, Bedrock

Well	Well Elev ft msl	First Water ft bls	SWL ft bls	SWL Date	Well Depth (ft)	Seal Interval (ft)	Casing Intervals (ft)	Liner Intervals (ft)	Perforations Or Screens (ft)	Well Yield (gpm)	Draw Down (ft)	Test Type
1	195	22	12	8/12/2004	260	0-18	+1-61	--	22-30, 40-50	20	--	Air
2	205	60	18	7/9/1980	80	0-25	+1-75	--	55-75	40	52	Bail
3	202	57	30	10/26/1991	95	0-18	+1-92	--	63-78	36	60	Bail

Use data from application for proposed wells.

A4. **Comments:** The proposed POU/POA area is approximately 2 miles due north of Monmouth, Oregon.

***Note:** Section 3 of the application indicates the following proposed well-specific rates for each of the three proposed POAs:

- Well 1/POLK 52023: 20 gpm (~0.0446 cfs)
- Well 2/POLK 3227: 40 gpm (~0.0891 cfs)
- Well 3/POLK 375: 36 gpm (~0.0802 cfs).

This well-specific distribution is contrary to information currently shown on WRIS, which instead shows the same maximum rate (96 gpm, ~0.2139 cfs) for each of the three proposed POAs. This review uses the well-specific rates indicated on the application, and as tabulated above.

A5. **Provisions of the Willamette** Basin rules relative to the development, classification and/or management of groundwater hydraulically connected to surface water are, or are not, activated by this application. (Not all basin rules contain such provisions.)

Comments: The proposed POAs obtain groundwater from a confined aquifer, and thus the pertinent Basin rules (OAR 690-502-0240) do not apply.

A6. Well(s) # _____, _____, _____, _____, _____, _____, tap(s) an aquifer limited by an administrative restriction.

Name of administrative area: None.

Comments: Not applicable.

B. GROUNDWATER AVAILABILITY CONSIDERATIONS, OAR 690-310-130, 400-010, 410-0070

B1. **Based upon available data**, I have determined that groundwater* for the proposed use:

- a. is over appropriated, is not over appropriated, or cannot be determined to be over appropriated during any period of the proposed use. * This finding is limited to the groundwater portion of the over-appropriation determination as prescribed in OAR 690-310-130;
- b. will not or will likely be available in the amounts requested without injury to prior water rights. * This finding is limited to the groundwater portion of the injury determination as prescribed in OAR 690-310-130;
- c. will not or will likely to be available within the capacity of the groundwater resource; or
- d. will, if properly conditioned, avoid injury to existing groundwater rights or to the groundwater resource:
 - i. The permit should contain condition #(s) 7c (7-yrs measurements), medium water-use reporting ;
 - ii. The permit should be conditioned as indicated in item 2 below.
 - iii. The permit should contain special condition(s) as indicated in item 3 below;

- B2. a. **Condition** to allow groundwater production from no deeper than _____ ft. below land surface;
- b. **Condition** to allow groundwater production from no shallower than _____ ft. below land surface;
- c. **Condition** to allow groundwater production only from the _____ groundwater reservoir between approximately _____ ft. and _____ ft. below land surface;
- d. **Well reconstruction** is necessary to accomplish one or more of the above conditions. The problems that are likely to occur with this use and without reconstructing are cited below. Without reconstruction, I recommend withholding issuance of the permit until evidence of well reconstruction is filed with the Department and approved by the Groundwater Section.

Describe injury –as related to water availability– that is likely to occur without well reconstruction (interference w/ senior water rights, not within the capacity of the resource, etc): _____

B3. **Groundwater availability remarks:** The proposed POAs obtain groundwater from water-bearing sand and gravel deposits of the Willamette Aquifer system. In this area the sand and gravel layers typically occur as beds ranging from ~5-20 ft thick, with a total cumulative thickness of ~30-40 feet, and are regularly interspersed with low-permeability silt and clay layers of similar thickness. The uppermost water-bearing layers are overlain by approximately 20-30 ft of silt and clay deposits (Willamette Silt) (Conlon and others, 2005; Gannett and Caldwell, 1998).

Although this area is almost exclusively agricultural, groundwater exploitation appears to be relatively very low. It is possible these local irrigation water needs are met by municipal and/or quasi-municipal supply systems, or from surface water sources. The nearest known permitted groundwater uses are two irrigation POAs located approximately 0.8 miles to the east-northeast (certificate 93430) and southeast (certificate 28369). There are several rural residences within about 0.25 miles of the proposed POA locations, but it is unknown if they possess domestic wells or are instead served by a public source.

Available groundwater level data is very sparse. However, available data indicate general stability, although the most recent measurements are from about 20-25 years ago (see hydrograph). Because groundwater exploitation in the area appears to be quite low, and the shallow aquifer system benefits from relatively-high recharge rates (Conlon and others, 2005), groundwater is likely not over appropriated in this area. Nonetheless, if a permit is granted the recommended permit conditions should be included to monitor and protect the resource and other groundwater rights in the area.

C. GROUNDWATER/SURFACE WATER CONSIDERATIONS, OAR 690-09-040

C1. 690-09-040 (1): Evaluation of aquifer confinement:

Well	Aquifer or Proposed Aquifer	Confined	Unconfined
1	Alluvium (Willamette Aquifer system)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2	Alluvium (Willamette Aquifer system)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3	Alluvium (Willamette Aquifer system)	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Basis for aquifer confinement evaluation: The water-bearing zones in the proposed POAs are overlain by approximately 20-30 feet of low-permeability silts and clays (Willamette Silt) which act as a confining unit. Furthermore, static groundwater levels in nearby wells are above the top of water-bearing units within the aquifer. These factors suggest that the proposed wells will obtain groundwater from a confined aquifer.

C2. 690-09-040 (2) (3): Evaluation of distance to, and hydraulic connection with, surface water sources. All wells located a horizontal distance less than ¼ mile from a surface water source that produce water from an unconfined aquifer shall be assumed to be hydraulically connected to the surface water source. Include in this table any streams located beyond one mile that are evaluated for PSI.

Well	SW #	Surface Water Name	GW Elev ft msl	SW Elev ft msl	Distance (ft)	Hydraulically Connected?			Potential for Subst. Interfer. Assumed?	
						YES	NO	ASSUMED	YES	NO
1	1	North Fork Ash Creek	180-190	180-210	2330	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	1	North Fork Ash Creek	180-190	180-210	2100	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	1	North Fork Ash Creek	180-190	180-210	2230	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Basis for aquifer hydraulic connection evaluation: Estimated groundwater elevations in all three proposed POAs are coincident with the estimated elevation range of SW1 within approximately one mile of the POAs. Also, the USGS groundwater map (Gannett and Caldwell, 1998) indicates that groundwater in this area flows towards and thus discharges to SW1 (i.e., a gaining reach). These facts indicate that the alluvial groundwater system is hydraulically connected to SW1.

Water Availability Basin the well(s) are located within: WID 183: Willamette R > Columbia R – above Mill Cr at gage 14191000.

C3a. 690-09-040 (4): Evaluation of stream impacts for each well that has been determined or assumed to be hydraulically connected and less than 1 mile from a surface water source. Limit evaluation to instream rights and minimum stream flows that are pertinent to that surface water source, and not lower SW sources to which the stream under evaluation is tributary. Compare the requested rate against the 1% of 80% natural flow for the pertinent Water Availability Basin (WAB). If Q is not distributed by well, use full rate for each well. Any checked box indicates the well is assumed to have the potential to cause PSI.

Well	SW #	Well < ¼ mile?	Qw > 5 cfs?	Instream Water Right ID	Instream Water Right Q (cfs)	Qw > 1% ISWR?	80% Natural Flow (cfs)	Qw > 1% of 80% Natural Flow?	Interference @ 30 days (%)	Potential for Subst. Interfer. Assumed?
		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>

C3b. **690-09-040 (4):** Evaluation of stream impacts by total appropriation for all wells determined or assumed to be **hydraulically connected and less than 1 mile** from a surface water source. **Complete only if Q is distributed among wells.** Otherwise same evaluation and limitations apply as in C3a above.

Well	SW #	Well < ¼ mile?	Qw > 5 cfs?	Instream Water Right ID	Instream Water Right Q (cfs)	Qw > 1% ISWR?	80% Natural Flow (cfs)	Qw > 1% of 80% Natural Flow?	Interference @ 30 days (%)	Potential for Subst. Interfer. Assumed?
1	1	<input type="checkbox"/>	<input type="checkbox"/>	MF183A	1300	<input type="checkbox"/>	3620	<input type="checkbox"/>	<<25%	<input type="checkbox"/>
2	1	<input type="checkbox"/>	<input type="checkbox"/>	MF183A	1300	<input type="checkbox"/>	3620	<input type="checkbox"/>	<<25%	<input type="checkbox"/>
3	1	<input type="checkbox"/>	<input type="checkbox"/>	MF183A	1300	<input type="checkbox"/>	3620	<input type="checkbox"/>	<<25%	<input type="checkbox"/>

Comments: C3a: not applicable because Q distributed amongst wells (per application).

C3b: According to Section 3 of the application, the requested allocation per well is as follows:

- Well 1/POLK 52023: 20 gpm (~0.0446 cfs)
- Well 2/POLK 3227: 40 gpm (~0.0891 cfs)
- Well 3/POLK 375: 36 gpm (~0.0802 cfs).

Relative to the minimum instream and 80% exceedance flows for SW1, the requested allocations are extremely low, such that the estimated interference at 30 days would be much less than 25%.

C4a. **690-09-040 (5):** Estimated impacts on **hydraulically connected surface water sources greater than one mile** as a percentage of the proposed pumping rate. Limit evaluation to the effects that will occur up to one year after pumping begins. This table encompasses the considerations required by 09-040 (5)(a), (b), (c) and (d), which are not included on this form. Use additional sheets if calculated flows from more than one WAB are required.

Non-Distributed Wells													
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
Distributed Wells													
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
(A) = Total Interf.													
(B) = 80 % Nat. Q													
(C) = 1 % Nat. Q													
(D) = (A) > (C)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
(E) = (A / B) x 100		%	%	%	%	%	%	%	%	%	%	%	%

(A) = total interference as CFS; (B) = WAB calculated natural flow at 80% exceed. as CFS; (C) = 1% of calculated natural flow at 80% exceed. as CFS; (D) = highlight the checkmark for each month where (A) is greater than (C); (E) = total interference divided by 80% flow as percentage.

Basis for impact evaluation: Not applicable.

C4b. **690-09-040 (5) (b)** The potential to impair or detrimentally affect the public interest is to be determined by the Water Rights Section.

- C5. **If properly conditioned**, the surface water source(s) can be adequately protected from interference, and/or groundwater use under this permit can be regulated if it is found to substantially interfere with surface water:
- The permit should contain condition #(s) _____;
 - The permit should contain special condition(s) as indicated in "Remarks" below;

C6. SW / GW Remarks and Conditions: _____

References Used:

Application file: G-18574

Conlon, T.D., Wozniak, K.C., Woodcock, D., Herrera, N.B., Fisher, B.J., Morgan, D.S., Lee, K.K., and Hinkle, S.R., 2005, Ground-water hydrology of the Willamette Basin, Oregon: U.S. Geological Survey Scientific Investigations Report 2005-5168.

Gannett, M.W. and Caldwell, R., 1998, Geologic framework of the Willamette Lowland aquifer system, Oregon and Washington: U.S. Geological Survey Professional Paper 1424-A, 32 p.

Woodward, D.G., Gannett, M.W., and Vaccaro, J.J., 1998, Hydrogeologic framework of the Willamette Lowland aquifer system, Oregon and Washington: U.S. Geological Survey Professional Paper 1424-B, 82 p.

D. WELL CONSTRUCTION, OAR 690-200

D1. Well #: _____ Logid: _____

D2. **THE WELL does not appear to meet current well construction standards based upon:**

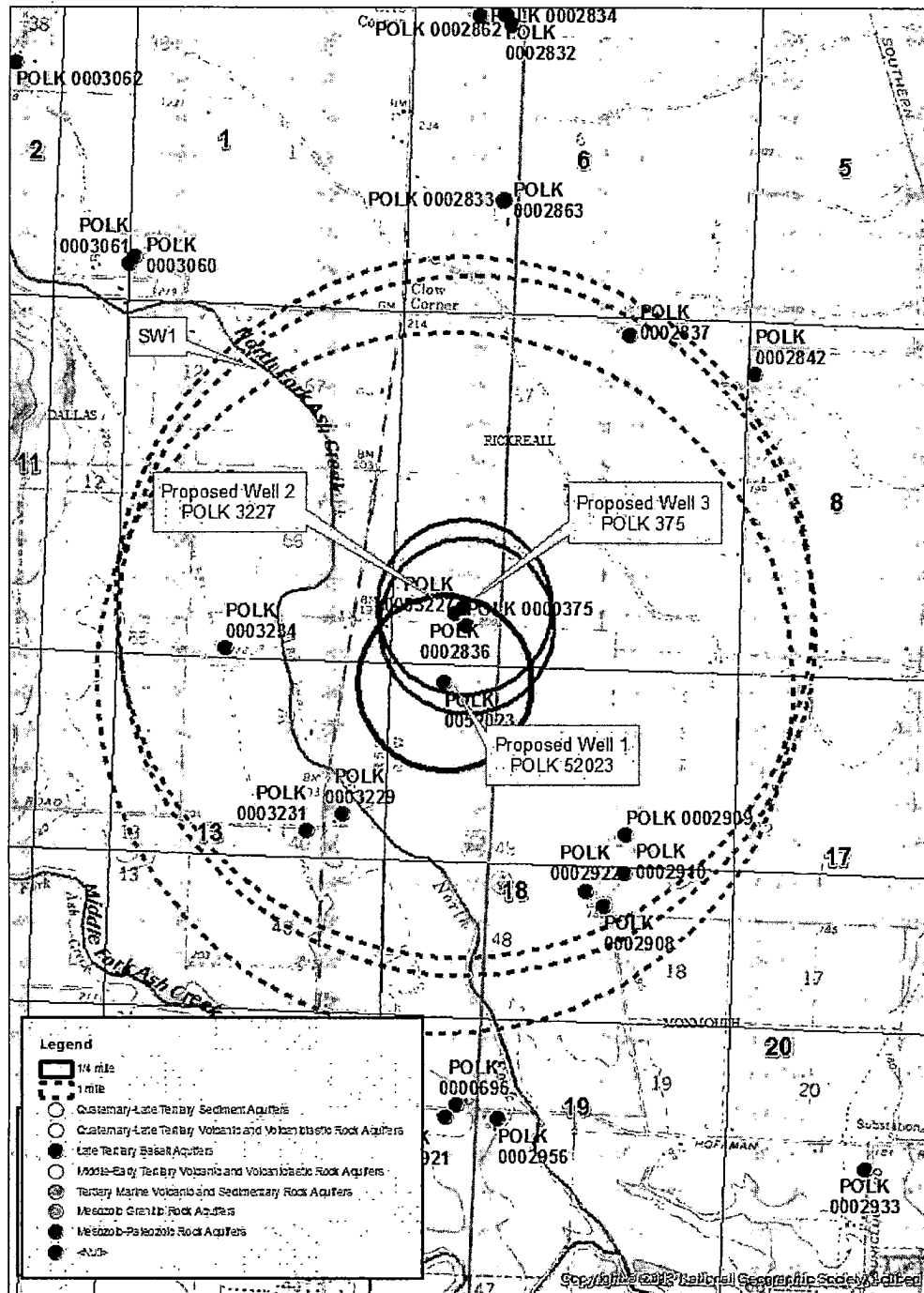
- a. review of the well log;
- b. field inspection by _____;
- c. report of CWRE _____;
- d. other: (specify) _____

D3. **THE WELL construction deficiency or other comment is described as follows:** _____

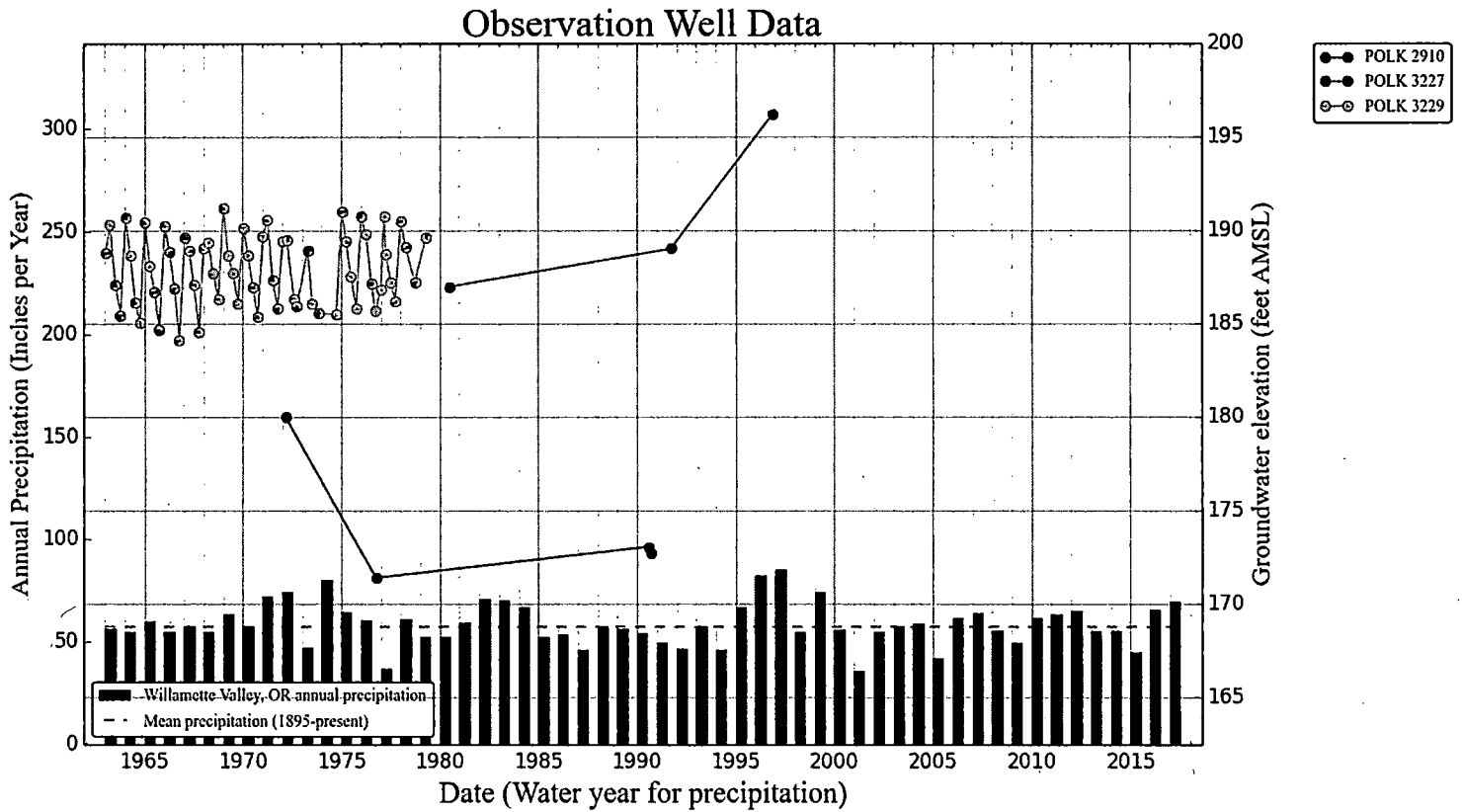
D4. **Route to the Well Construction and Compliance Section for a review of existing well construction.**

Well Location Map

Application G-18574, Bob Holding Co., LLCd T8S, R4W - Sections 7, 18



Water-Level Trends in Nearby Wells



Water Availability Tables

Oregon Water Resources Department
Water Availability Analysis

Main Help
Return Contact Us

Water Availability AnalysisSM

Detailed Reports

WILLAMETTE R - COLUMBIA R - AB MILL CR AT GAGE 14191000
WILLAMETTE BASIN

Watershed ID #: 183 [Map](#)
Date: 8/16/2018

Water Availability as of 8/16/2018

Exceedance Level:
Time: 1:00 PM

Water Availability Calculation
 Water Rights
 Consumptive Uses and Storages
 Instream Flow Requirements
 Watershed Characteristics
 Reservations

Water Availability Calculation

Monthly Streamflow in Cubic Feet per Second
Annual Volume at 50% Exceedance in Acre-Feet

Month	Natural Stream Flow	Consumptive Uses and Storages	Expected Stream Flow	Reserved Stream Flow	Instream Flow Requirement	Net Water Available
JAN	18,400.00	2,240.00	16,200.00	0.00	1,300.00	14,900.00
FEB	20,100.00	7,430.00	12,700.00	0.00	1,300.00	11,400.00
MAR	19,600.00	7,210.00	12,400.00	0.00	1,300.00	11,100.00
APR	18,000.00	6,870.00	11,100.00	0.00	1,300.00	9,830.00
MAY	15,500.00	4,170.00	11,300.00	0.00	1,300.00	10,000.00
JUN	8,310.00	1,680.00	6,630.00	0.00	1,300.00	5,330.00
JUL	4,710.00	1,440.00	3,270.00	0.00	1,300.00	1,970.00
AUG	3,620.00	1,330.00	2,290.00	0.00	1,300.00	994.00
SEP	3,690.00	1,150.00	2,530.00	0.00	1,300.00	1,230.00
OCT	4,650.00	743.00	3,910.00	0.00	1,300.00	2,610.00
NOV	9,400.00	852.00	8,550.00	0.00	1,300.00	7,250.00
DEC	16,700.00	912.00	15,800.00	0.00	1,300.00	14,500.00
ANN	135,000.00	2,150,000.00	11,300,000.00	0.00	942,000.00	10,400,000.00

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765)

(WELL I.D.)# L 65554
(START CARD) # 188050

Instructions for completing this report are on the last page of this form.

(1) OWNER: Well Number 1
Name Don & Sharon Roberts - Clay & Rhonda Johnson
Address 3395 Pacific Hwy
City Independence, State OR Zip 97351

(2) TYPE OF WORK
 New Well Deepening Alteration (repair/recondition) Abandonment

(3) DRILL METHOD:
 Rotary Air Rotary Mud Cable Auger
 Other

(4) PROPOSED USE:
 Domestic Community Industrial Irrigation
 Thermal Injection Livestock Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval Yes No Depth of Completed Well 260 ft.
Explosives used Yes No Type _____ Amount _____

HOLE SEAL

Diameter	From	To	Material	From	To	Sacks or pounds
10"	0	18	Bentonite	0	18	9 bags
6"	18	260				

How was seal placed: Method A B C D E
 Other Filled to top with dry bentonite
Backfill placed from _____ ft. to _____ ft. Material _____
Gravel placed from _____ ft. to _____ ft. Size of gravel _____

(6) CASING/LINER:

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing: 6"	+1	61	250	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liner:				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Final location of shoe(s) 61'

(7) PERFORATIONS/SCREENS:

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
22	30	.250	120	1" long	6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>
40	50	.250	120	1" long	6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>

(8) WELL TESTS: Minimum testing time is 1 hour

Yield gal/min	Drawdown	Drill stem at	Time
20		60'	1 hr.

Temperature of water 53* Depth Artesian Flow Found _____
Was a water analysis done? Yes By whom _____
Did any strata contain water not suitable for intended use? Too little
 Salty Muddy Odor Colored Other _____
Depth of strata: _____

(9) LOCATION OF WELL by legal description:
County Polk Latitude _____ Longitude _____
Township 8 S Range 4 W WM.
Section 18 NE 1/4 SW 1/4
Tax Lot 202 Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) Same

(10) STATIC WATER LEVEL:
12' ft. below land surface. Date 8/12/2004
Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:

Depth at which water was first found 22'

From	To	Estimated Flow Rate	SWL
22	33	3 GPM	12
40	50	7 GPM	12
63	71	10 GPM	

(12) WELL LOG:

Ground Elevation _____

Material	From	To	SWL
Brown clay - gray blue clay sandy	0	3	
Gravels - sandy gray blue clay - small	3	22	12
Gravels - sandy blue clay small	22	33	
Gray blue clay black sand	33	52	
Gray blue clay sandy	52	63	
Sand blue black pea gravel	63	71	
Gray brown clay firm	71	260	

Ron Robinson Well Drilling
4520 Salem Dallas Hwy NW
Salem, OR 97304
503.371.1844

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WATER RESOURCES DEPT
SALEM, OREGON

Date started 8/9/2004 Completed 8/12/2004

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

WWC Number _____
Signed _____ Date _____

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 1585
Signed _____ Date 8/13/2004

ORIGINAL & FIRST COPY-WATER RESOURCES DEPARTMENT SECOND COPY-CONSTRUCTOR THIRD COPY-CUSTOMER

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