



May 14, 2019

Leslie Nona  
Chairperson  
Dry Creek Rural Neighborhood Association  
6411 West Dry Creek Road  
Boise, ID 83714

*Subject: 2018 Annual Water Level Monitoring Report for the Dry Creek Ranch  
Aquifer Monitoring Plan*

Dear Ms. Nona,

This letter summarizes the status of the Dry Creek Ranch Aquifer Monitoring Plan (Plan) dated April 2008.

**Description of Monitoring Plan.** The Plan was implemented by JMM Dry Creek (JMM) as part of a Water Rights Agreement (Agreement) between the Dry Creek Rural Neighborhood Association (DCRNA) and JMM Dry Creek (JMM). The Agreement, with an effective date of January 14, 2009, was established to resolve the DCRNA protest of JMM's Application for Permit 63-32423 and to avoid a possible protest of JMM's Application for Transfer 73817.

Note that JMM changed its name to P&F Dry Creek, LLC, in July 2014. Idaho Department of Water Resources changed the name on Permit 63-32423 on August 25, 2014. JMM subsequently assigned Permit 63-32423 to BHH Investors 1414 LLC on August 31, 2016. Monitoring is currently being conducted on behalf of BHH Investors 1414 LLC.

**Monitoring Wells.** Well locations are shown on Figure 1 in Appendix A.

The Plan originally included six wells located on the Dry Creek Ranch property and four off-site wells. The on-site wells were Well 9, Payne Well, Big Pump Well, Hot Well, Stockwater Well, and Pasture Well. The four off-site wells were the Beliveau Well, Thompson Well, Graves Well, and the Dater Well. Monitoring of these ten wells began in June 2007. Measurements were taken every two months through 2008, and then every 6 months thereafter. The most recent set of measurements were taken on April 24, 2019.

- Artesian pressure has not been measured from the Pasture Well since April 2010. The well head was leaking at this time, preventing an accurate measurement of pressure. The Pasture Well was abandoned by Post Drilling Inc. on December 8, 2016, and has been removed from the monitoring plan. A copy of the well abandonment report can be found in Appendix B.
- During Fall 2012 monitoring, SPF Water Engineering's (SPF) electric line well sounder became snagged somewhere along the drop pipe/power cable in the Graves Well. Any future monitoring at this well would require installation of a

well sounding tube. Connie Graves declined SPF's offer to install a well sounding tube free of charge. As a result, the Graves Well has been removed from the monitoring plan.

- During Spring of 2015, the new homeowner of the Thompson Well requested that his well be removed from the monitoring program. In July 2018, the new homeowner (Joe Watterson) requested that his well be reinstated as a monitoring point. A signed monitoring agreement for the Watterson (formerly Thompson) well is included in Appendix C.
- The original Dater Well was monitored through April 2016. This was a shallow well with a static water level that fluctuated between 35 and 51 feet. Measurements in October 2016 and April 2017 encountered an obstruction above the water level at approximately 40 feet. A new, deeper well was drilled in 2013 which has been monitored in place of the shallow well since October 2016.
- Artesian pressure was measured at the Payne well through April 2013. Between April and October 2013, the artesian flow was redirected down a pipe with no hose bib so pressure measurements were no longer possible. The Payne Well was abandoned by Post Drilling Inc. on April 3, 2018 by filling it with cement and was observed to no longer be flowing during the April 10, 2018 monitoring event. A copy of the well abandonment report can be found in Appendix B. The Payne Well is no longer monitored.
- In July 2018, Leslie Nona requested that the irrigation and domestic supply wells on her property at 6411 W Dry Creek Road be added to the monitoring program. A signed monitoring agreement for both of the Nona wells is included in Appendix C.

The Agreement also required adding six off-site DCRNA wells to the Plan. Nine (9) DCRNA wells have been added so far. Three were added in April 2009 (Johnston, Podolan, Rishel), three more were added in April 2010 (Chapin, Golis, Hull), one was added in April 2016 (Jordan), and two were added in 2018 (Nona Irrigation, Nona Domestic). The wells added in 2009 and 2010 were measured every two months during their first year in the monitoring program, then every six months thereafter. The Jordan, Nona Irrigation, and Nona Domestic wells have been measured every six months since they were first added to the monitoring program. All of the named wells were most recently measured on April 24, 2019 and are included on Figure 1.

**Monitoring Program Status.** Measurements from seven of the ten original wells (excluding the Pasture Well, Graves Well, and Payne Well) plus nine off-site DCRNA wells will continue to be taken twice a year (April and October) until termination of the program, measurements are no longer physically possible, or a well is withdrawn from the program by the well Owner. In accordance with the Plan, monitoring will continue until at least 2025 (i.e., 15 years after permit approval).

**Fall 2018 and Spring 2019 Monitoring.** Sixteen wells were visited during the Fall 2018 and Spring 2019 monitoring events. At least one measurement was obtained from all 16 wells.

- The obstruction previously encountered in the Golis Well is still present but a sounder can be worked past it and the well water level was measured in October 2018 and April 2019.

**Summary of Data.** Water level measurements collected to date from 20 monitoring wells are presented in Table 1 in Appendix A. In order to more clearly present the collected data, the measurements are presented in three figures in Appendix B. Figure 2 shows data for wells with depth to water of 100 feet or less, Figure 3 shows data for wells with depth to water of greater than 100 feet, and Figure 4 shows pressure measurements at the artesian wells.

Please contact myself or Jason Thompson at SPF (208-383-4140) with any questions you may have regarding the information contained in this letter.

Sincerely,



Sean Albertson, E.I.T.  
Associate Engineer

Cc: Landon Northey, Boise Hunter Homes  
Dennis Owsley, Idaho Department of Water Resources  
Michele Edl, Idaho Department of Water Resources  
John and Joan Johnston  
Dale Podolan  
Michael and Kari Rishel  
Philip Dater  
Ryan Cole  
Tom and Theresa Golis  
Gayle Chapin  
Morris and Shannon Hull  
J. Clive and Cathy Jordan

APPENDIX A  
FIGURES AND TABLES

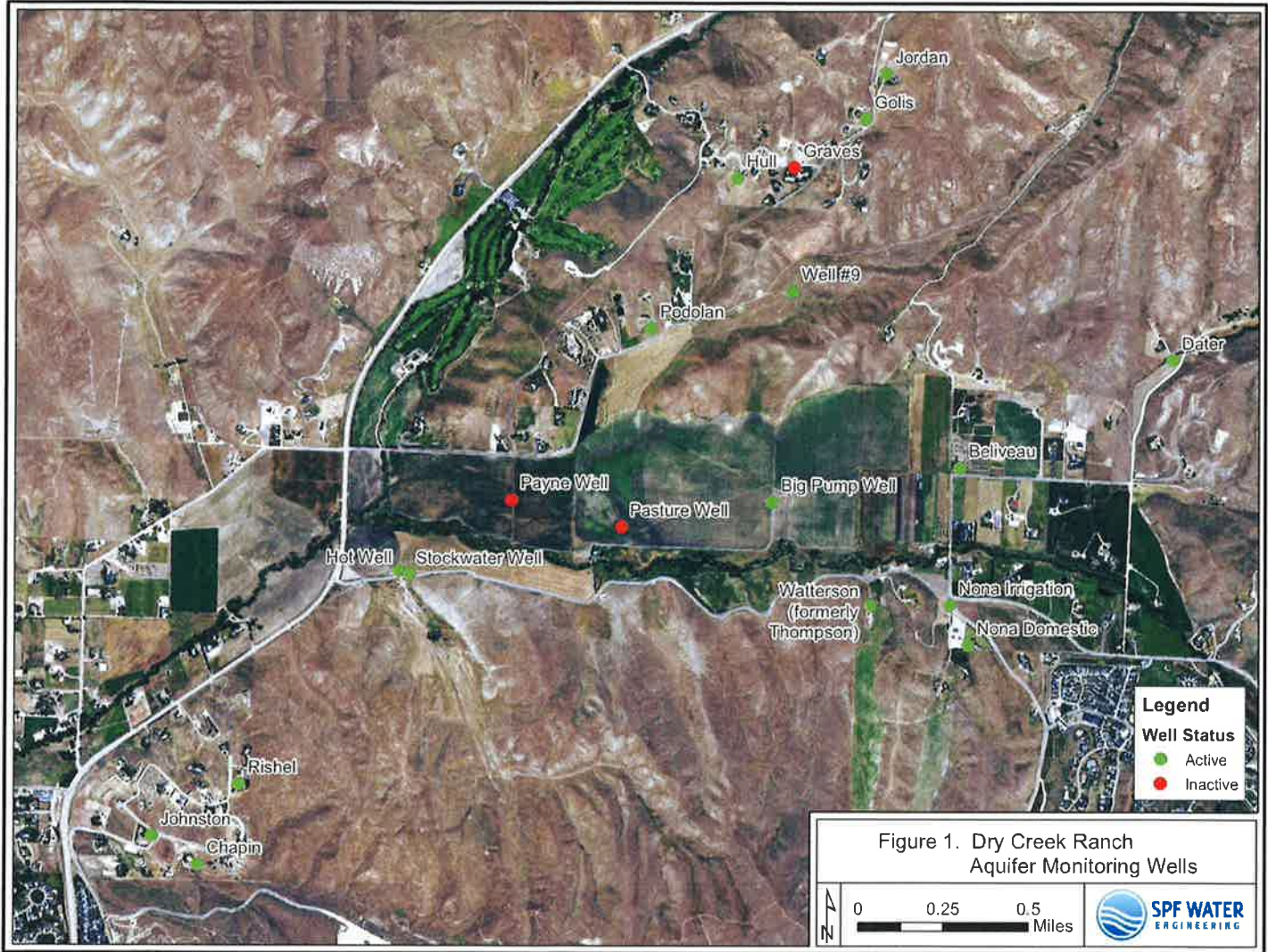


Figure 2. Dry Creek Shallow Well Water Level Monitoring Data

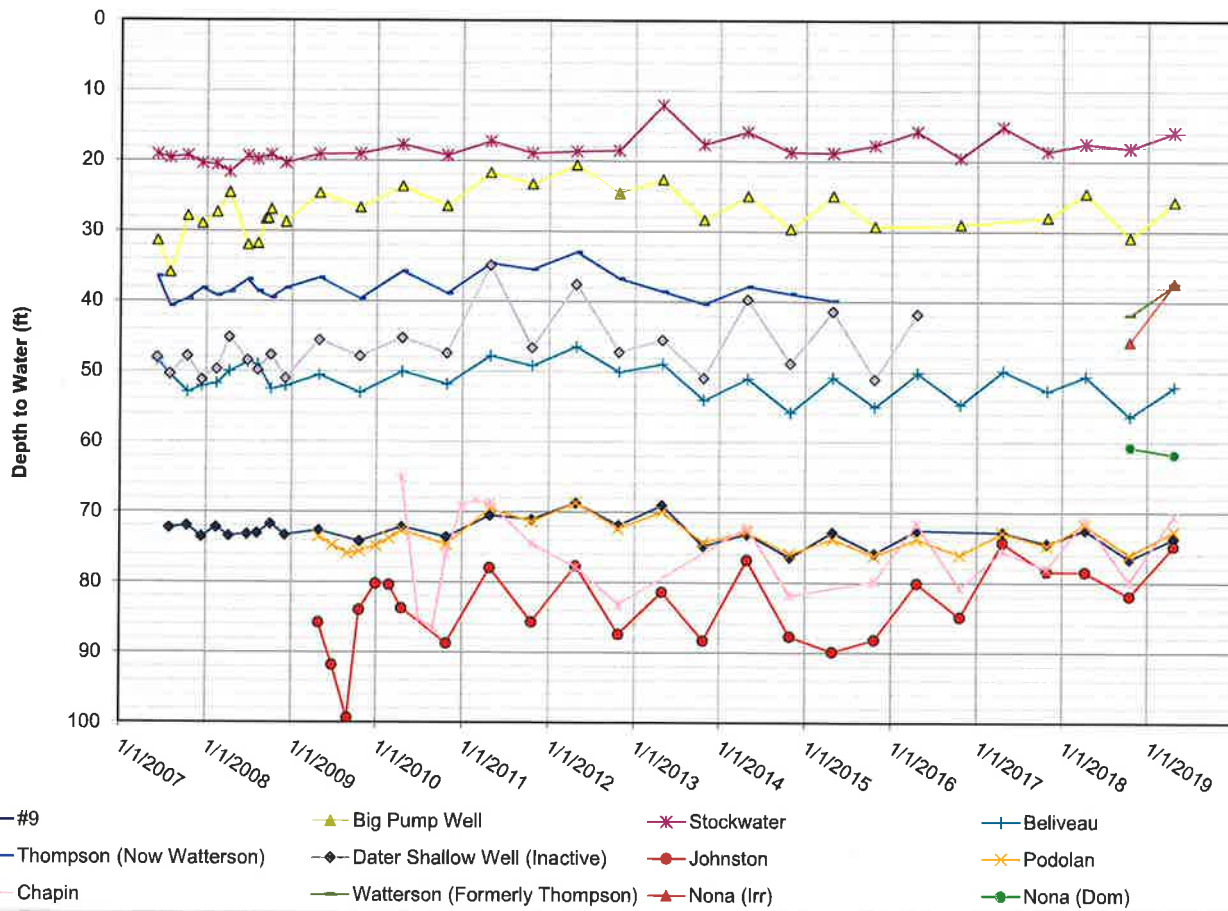


Figure 3. Dry Creek Deep Well Water Level Monitoring Data

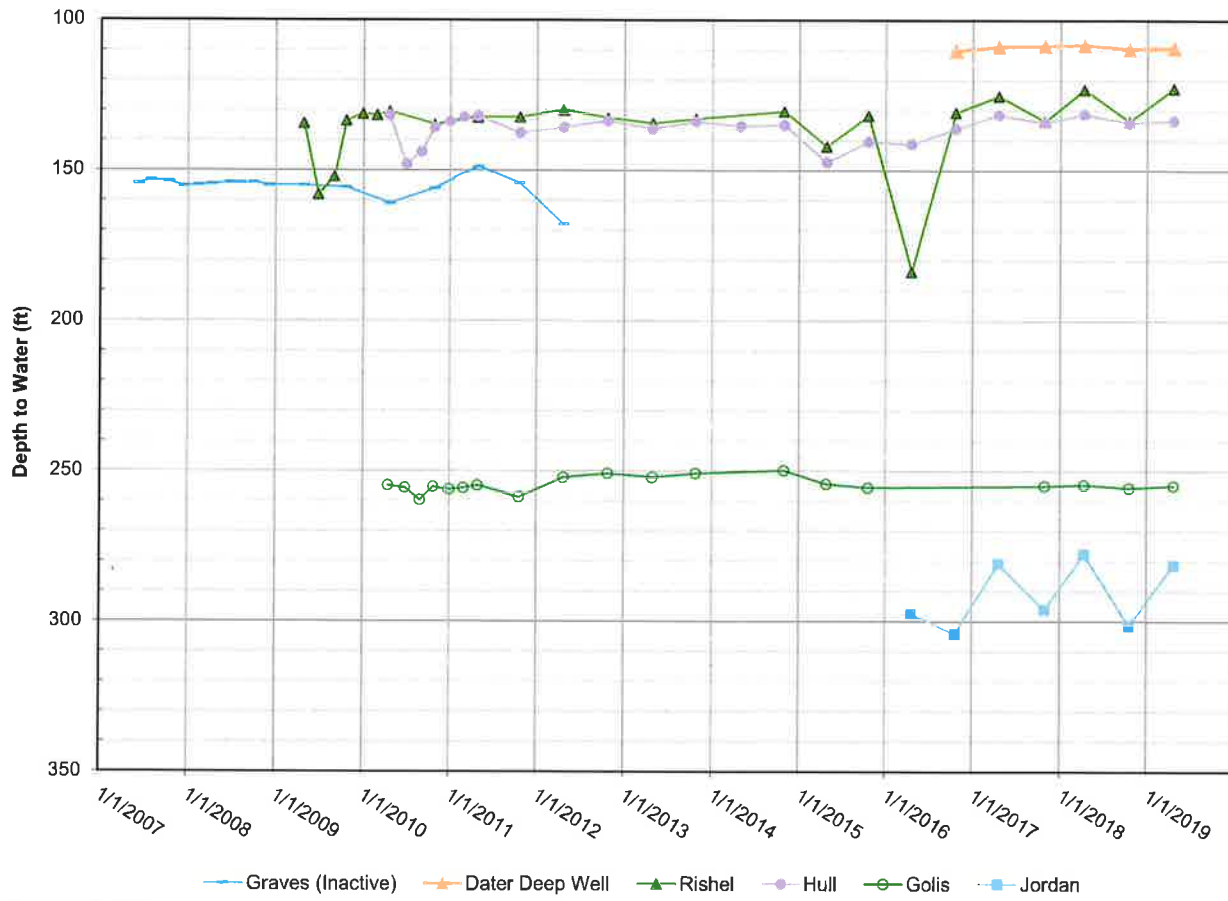


Figure 4. Dry Creek Artesian Well Pressure Monitoring Data

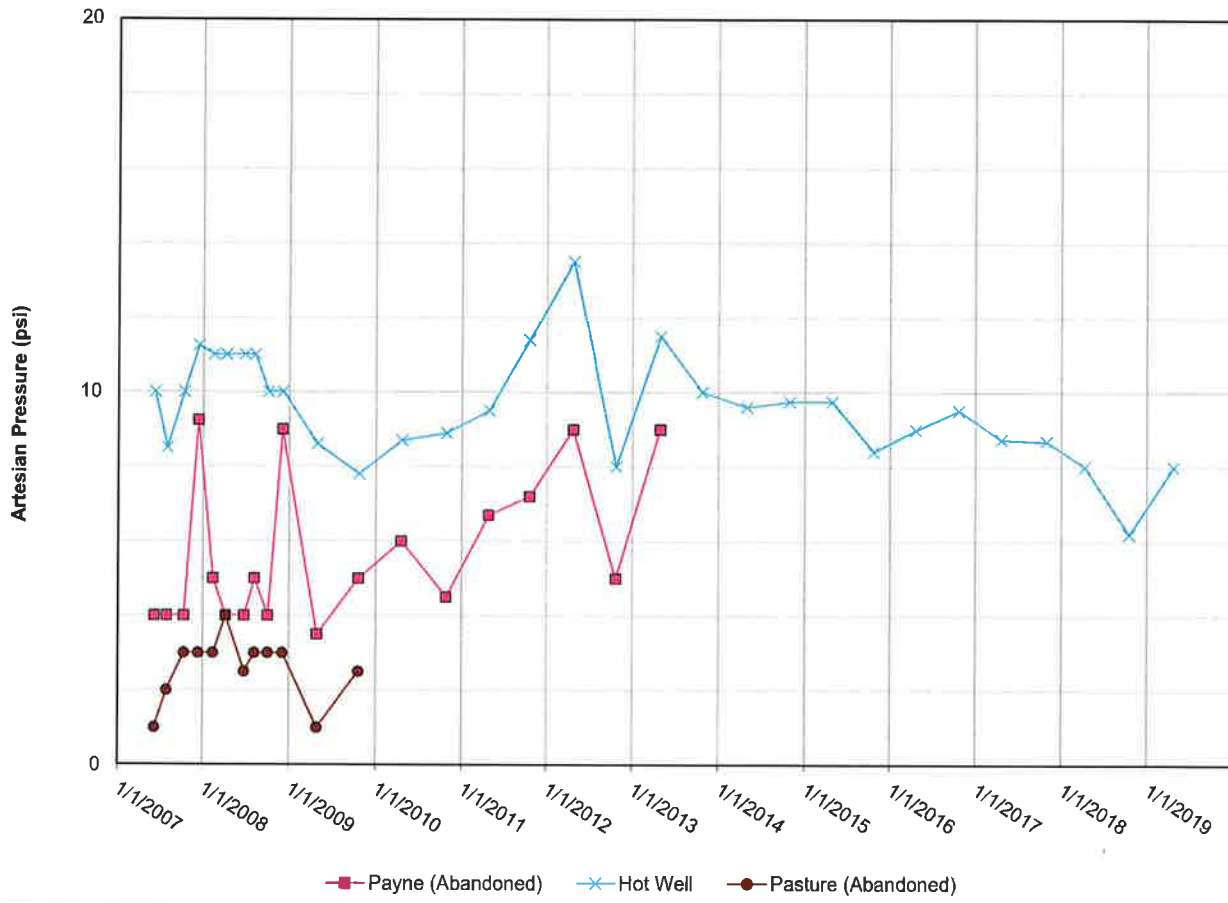


Table 1. Dry Creek Water Level Monitoring Results

Date	#9 (ft, DTW)	Payne (psi)	Big Pump Well (ft, DTW)	Hot Well (psi)	Stockwater (ft, DTW)	Pasture (psi)	Bellveau (ft, DTW)	Thompson (ft, DTW)	Graves (ft, DTW)	Dater Deep Well (ft, DTW)	Dater Shallow Well (ft, DTW)	Johnston (ft, DTW)	Rishel (ft, DTW)	Podolan (ft, DTW)	Chapin (ft, DTW)	Hull (ft, DTW)	Golls (ft, DTW)	Jordan (ft, DTW)	Nona Irr (ft, DTW)	Nona Dom (ft, DTW)	
6/8/07		4.0	31.37	10.0	19.10	1.0	48.43	36.53	154.28		48.02										
7/30/07	72.25	4.0	35.88	8.5	19.58	2.0	50.53	40.74	153.25		50.35										
10/12/07	71.95	4.0	27.87	10.0	19.26	3.0	52.98	39.72	153.72		47.82										
12/13/07	73.55	9.3	28.92	11.3	20.37	3.0	52.13	38.23	155.18		51.20										
2/13/08	72.20	5.0	27.35	11.0	20.54	3.0	51.75	39.23	154.92		49.70										
4/7/08	73.40	4.0	24.52	11.0	21.60	4.0	50.02	38.70	154.55		45.15										
6/24/08	73.16	4.0	31.97	11.0	19.32	2.5	48.76	36.95	154.10		48.42										
8/6/08	73.02	5.0	31.75	11.0	19.78	3.0	49.10	38.65	154.19		49.79										
9/8/08			28.3																		
9/19/08			28.2																		
10/2/08	71.72	4.0	26.92	10.0	19.12	3.0	52.54	39.52	154.01		47.63										
12/3/08	73.32	9.0	28.72	10.0	20.31	3.0	52.13	38.17	154.98		51.00										
4/27/09	72.63	3.5	24.58	8.6	19.10	1.0	50.53	36.68	155.09		45.56	85.76	134.33	73.52							
6/26/09												91.79	157.94	74.78							
8/31/09												99.32	152.10	75.89							
10/20/09	74.19	5.0	26.65	7.8	18.99	2.5	53.03	39.65	155.72		47.82	83.97	133.52	75.55							
12/29/09												80.22	131.17	74.82							
2/26/10												80.40	131.54	73.76							
4/19/10	72.15	6.0	23.64	8.7	17.69	(1)	50.05	35.76	160.94		45.22	83.73	130.45	72.60	65.19	131.72	254.71				
6/30/10															85.25	148.08	255.51				
8/31/10															86.44	143.90	259.57				
10/26/10	73.58	4.5	26.41	8.9	19.22	(1)	51.84	38.88	156.01		47.37	88.72	134.75	74.86	75.94	135.87	255.20				
12/30/10															68.18	133.82	256.17				
2/28/11															68.29	132.31	255.70				
4/27/11	70.51	6.7	21.66	9.5	17.19	(1)	47.78	34.60	148.82		34.87	77.96	132.38	69.53	68.81	131.90	254.88				
10/21/11	71.04	7.2	23.26	11.4	18.89	(1)	49.20	35.48	154.48		46.60	85.66	132.32	71.37	74.47	137.61	258.63				
4/24/12	68.71	9.0	20.55	13.5	18.60	(1)	46.47	32.98	168.18		37.55	77.65	130.12	68.70	77.83	135.70	252.19				
10/23/2012	71.88	5.0	24.6	9.0	18.49	(1)	50.08	36.76	(1)		47.20(2)	87.37	132.63	72.32	83.12	133.49	250.83				
4/29/2013	69.04	9.0	22.58	11.5	12.02	(1)	48.92	38.57 (2)	(1)		45.50(2)	81.36	134.35	69.93	(1)	136.14	252.06				
10/23/2013	74.83	(1)	28.35	10.0	17.62	(1)	54.10	40.36	(1)		50.90	88.29	132.89	74.32	85.95	133.47	250.80				
4/29/2014	73.09	(1)	24.96	9.6	15.80	(1)	51.03	37.87	(1)		39.69	76.78	170.52(2)	72.79	72.14	135.30	(1)				
10/28/2014	76.42	(1)	29.61	9.8	18.69	(1)	55.80	42.35	(1)		48.79	87.68	130.44	75.91	81.85	134.82	249.85				
4/28/2015	72.88	(1)	24.92	9.8	18.81	(1)	50.86	(1)	(1)		41.39	89.86	141.98	73.80	(1)	147.26	254.30				
10/21/2015	75.83	(1)	29.26	8.4	17.71	(1)	55.00	(1)	(1)		51.04	88.15	131.75	76.10	79.8	140.38	255.51				
4/19/2016		(1)				(1)	50.16	(1)	(1)		41.76	80.1	183.66(2)		71.62						
4/20/2016	72.55		(1)	9	15.75											141.18	(1)	297.20			
10/21/2016	(1)	(1)	28.97	9.5	19.50	(1)	54.70	(1)	(1)	110.05		84.9	130.72	76.05	80.80	136.1	(1)	303.90			
4/19/2017	72.85	(1)	(1)	8.8	15.07	(1)	49.85	(1)	(1)	108.63		74.3	125.25	72.90	75.52	131.4	(1)	280.80			
10/27/2017	74.45	(1)	27.94	8.8	18.54	(1)	52.70	(1)	(1)	108.37		78.39	133.55	74.73	78.05	134.07	254.95	296.03			
4/10/2018	72.46	(1)	24.52	8.0	17.43	(1)	50.60	(1)	(1)	108.02		78.45	122.98	71.76	71.14	131.17	254.51	277.62			
10/17/2018	76.66	(1)	30.84	6.2	18.08	(1)	56.33	41.89	(1)	109.36		81.9	133.65	76.04	79.88	134.22	255.57	301.24	45.7	60.71	
4/24/2019	73.68	(1)	25.74	8.0	15.90	(1)	52.13	37.48	(1)	109.13		74.78	122.59	72.65	70.24	133.3	254.86	281.32	37.35	61.74	

(1) No measurement, most of artesian flow escaping from well head  
(2) Pumping water level; pump on during measurement  
(3) Sounder snagged in well, unable to measure water level; removed from program  
(4) No measurement; pump on, unable to measure PWL due to constriction at approximately 220ft  
(5) No measurement; artesian flows bypassing pipe with hose bib used for pressure measurement  
(6) No measurement; blockage between drop pipe and well casing at approximately 192 feet depth  
(7) New head with hose bib was installed. No water was flowing, appears to be isolated with gate valve, but unable open gate valve to verify.  
(8) New home owner requested that his well be removed from the monitoring program.  
(9) Gate locked, unable to gain access to well  
(10) Pump on, water spraying all around tap opening, unable to collect measurement  
(11) Well currently used for providing water for well drilling  
(12) Well abandoned 12/08/2016  
(13) Well abandoned 4/3/2018

**APPENDIX B**  
**WELL ABANDONMENT REPORTS**

ID NUMBER \_\_\_\_\_

**Payne Well**

**State of Idaho Department of Water Resources  
AUTHORIZATION TO ABANDON (DECOMMISSION) A WELL**

**1. WELL OWNER INFORMATION:** (The well owner is the person who legally owns the property.)

Name: BHH Investments 1414 LLC  
Current Mailing Address: 1025 S Bridgeway Pl, Suite 290  
City: Eagle State: ID Zip Code: 83616  
Telephone: (      )                     

**2. WELL LOCATION:** (GPS required in Degrees Decimal Minutes.)

Twp. 5N Rge. 1E Sec. 35                      1/4 NE 1/4 NE 1/4  
(10) (40) (160)  
Gov't Lot No.                      County Ada Lat. 43° 44.016 Long. 116° 17.660  
Street Address of Well Location: Off of Hwy 55 Between W. Brookside Ln & W. Dry Creek Rd.,  
City: Eagle Lot, block and subdivision:                     

**3. TYPE OF WELL:**

DOMESTIC  MONITORING  IRRIGATION  OTHER                      (Describe)

**4. WELL INFORMATION:** (\*Casing size, well depth & static water level data are required.)

Well Tag Number: None Previous Drilling Permit Number: Unknown  
Water Right Number:                       
Well Log on File? (Provide if available)  Yes  No Temperature:  less than 85°F  greater than 85°F  
\*Casing Size: 8-inch \*Material: Steel \*Well Depth 250+ ft. (measured)  
\*Current Static Water Level:                      (measured) Flowing Artesian?  Yes  No

**5. REASON FOR ABANDONMENT OF WELL:**

No longer needed

**6. PROPOSED METHOD OF ABANDONMENT:** (Must be consistent with IDAPA 37.03.09. This Application must be reviewed prior to commencement of abandonment.)

Fill hole from bottom to surface with cement

7. Drilling company name: Post Drilling Inc. company lic. No. 670

8. Date of abandonment: 4/3/2018

9. Applicants signature: 

10. Title: Principal Driller date: 4/3/2018

**ACTION OF THE DEPARTMENT OF WATER RESOURCES**

This application for abandonment has been reviewed by IDWR on                      /                      /                     

This review does not constitute an endorsement by IDWR of the proper abandonment of this well. Pursuant to Section 42-238(12), Idaho Code, all abandonments must meet the requirements of the Administrative Rules for Well Construction Standards. Abandonment of this well will require the services of a well driller licensed in the State of Idaho unless a waiver has been granted.

\_\_\_\_\_  
Signature of Authorized Department Representative

\_\_\_\_\_  
Title



Pasture Well

State of Idaho Department of Water Resources  
AUTHORIZATION TO ABANDON (DECOMMISSION) A WELL

1. WELL OWNER INFORMATION: (The well owner is the person who legally owns the property.)

Name: BHH Investments 1414 LLC  
Current Mailing Address: 1025 S Bridgeway Pl, Suite 290  
City: Eagle State: ID Zip Code: 83616  
Telephone: ( )

2. WELL LOCATION: (GPS required in Degrees Decimal Minutes.)

Twp. 5N, Rge. 1E, Sec. 36, 1/4 NE 1/4 NW 1/4  
(10) (40) (160)  
Gov't Lot No. County Ada Lat. 43° 43.953 Long. 116° 17.274  
Street Address of Well Location: Dry Creek Rd,  
City: Eagle Lot, block and subdivision:

3. TYPE OF WELL:

DOMESTIC  MONITORING  IRRIGATION  OTHER (Describe)

4. WELL INFORMATION: (\*Casing size, well depth & static water level data are required.)

Well Tag Number: None Previous Drilling Permit Number: Unknown  
Water Right Number:  
Well Log on File? (Provide if available)  Yes  No Temperature:  less than 85°F  greater than 85°F  
\*Casing Size: 8-inch \*Material: Steel \*Well Depth 370 ft. (measured)  
\*Current Static Water Level: (measured) Flowing Artesian?  Yes  No

5. REASON FOR ABANDONMENT OF WELL:

No longer needed

6. PROPOSED METHOD OF ABANDONMENT: (Must be consistent with IDAPA 37.03.09. This Application must be reviewed prior to commencement of abandonment.)

Filled hole from bottom of well to surface with cement

7. Drilling company name: Post Drilling Inc. company lic. No. 670

8. Date of abandonment: 12/8/2016

9. Applicants signature: *[Signature]*

10. Title: Principal Driller date: 12/9/2016

ACTION OF THE DEPARTMENT OF WATER RESOURCES

This application for abandonment has been reviewed by IDWR on \_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_

This review does not constitute an endorsement by IDWR of the proper abandonment of this well. Pursuant to Section 42-238(12), Idaho Code, all abandonments must meet the requirements of the Administrative Rules for Well Construction Standards. Abandonment of this well will require the services of a well driller licensed in the State of Idaho unless a waiver has been granted.

Signature of Authorized Department Representative

Title



**APPENDIX C**  
**2018 MONITORING AGREEMENTS**

# Water Level Monitoring Agreement

Well Name Watterson, Domestic/Irrigation

Well Location Southwest Corner of house lawn, 6725 W.

The undersigned well owner hereby agrees to allow BHH LLC (BHH), through its <sup>Dry Creek</sup> designated contractors or agents to enter on to the well owner's property on a regularly scheduled basis to measure well water levels as part of a water-level monitoring program. Monitoring frequency is typically semi-annual (April and October) of each year. The well owner agrees to cooperate with BHH in these efforts, and will designate a reasonable and safe means of well access for this purpose. The measurements would be conducted using electric-line well probes or steel tapes. The work will involve removing the well cap to access the well. Wells with submersible pumps may require water level measurement tubes to prevent entanglement of well probes in submersible pump wire. The tubes will be installed by BHH's contractor at BHH's expense.

The undersigned well owner hereby releases BHH and their contractors from any and all liability, other than negligence, associated with the water level monitoring program, including, but not limited to, real or perceived damage to the well, well pump, or well water quality. Water-level monitoring will continue until (1) the monitoring program is terminated or until (2) the well owner notifies BHH in writing that they desire to withdraw from the monitoring program.

Well Owner Name Joe Watterson

Mailing Address 6725 W. Dry Creek Boise, ID 83714

Daytime Telephone (208) 761-1678

Well Owner Signature 

Date 7/2/18

Witness Signature 

BHH Signature 

Date July 9th, 2018

# Water Level Monitoring Agreement

2 wells \*

Well Name Nona Domestic Well, Nona Irrigation Well

Well Location Domestic, behind house, 6411 W. Dry Creek

The undersigned well owner hereby agrees to allow BHH LLC (BHH), through its Guich & Broken Horn designated contractors or agents to enter on to the well owner's property on a regularly scheduled basis to measure well water levels as part of a water-level monitoring program.

Monitoring frequency is typically semi-annual (April and October) of each year. The well owner agrees to cooperate with BHH in these efforts, and will designate a reasonable and safe means of well access for this purpose. The measurements would be conducted using electric-line well probes or steel tapes. The work will involve removing the well cap to access the well. Wells with submersible pumps may require water level measurement tubes to prevent entanglement of well probes in submersible pump wire. The tubes will be installed by BHH's contractor at BHH's expense.

The undersigned well owner hereby releases BHH and their contractors from any and all liability, other than negligence, associated with the water level monitoring program, including, but not limited to, real or perceived damage to the well, well pump, or well water quality. Water-level monitoring will continue until (1) the monitoring program is terminated or until (2) the well owner notifies BHH in writing that they desire to withdraw from the monitoring program.

Well Owner Name Leslie Nona

Mailing Address 6411 W. Dry Creek Boise, ID 83714

Daytime Telephone (208) 850-5743

Well Owner Signature Leslie Nona

Date 7/2/18

Witness Signature Joe Wald

BHH Signature LA NTG

Date July 9th, 2018

\* Tag number for both wells available on IDWR website