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FEB 24 2021

DEPT OF WATER RESOURCES
SOUTHERN REGION

BEFORE THE DEPARTMENT OF WATER RESOURCES
OF THE STATE OF IDAHO

IN THE MATTER OF APPLICATION
FOR PERMIT NO. 47-17664
IN THE NAME OF:
ROBERT & JANA LINDERMAN

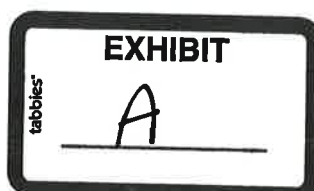
DECLARATION OF TANNER BUTLER

STATE OF IDAHO)
) ss.
County of Twin Falls)

Tanner Butler, being first duly sworn on oath, deposes and states the following:

1. I am over eighteen years of age and not a party to this case.
2. I make the foregoing and following statements in this Declaration based upon my personal knowledge and beliefs.
3. I have the following skills, training, and experience in the field of designing, installing, maintaining, and operating water irrigation systems:
 - A. I have grown up in and worked in my family business, Sliman & Butler, which is a company that serves Southern Idaho in terms of designing, installing, maintaining, and operating water irrigation systems which run from remote operated pivot

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HEARING EXHIBIT A

systems to smaller ditch pumps and sprinklers. Since March 2000, I have been employed with the company and since September 2009 I have been a branch manager of one of the company's branches where I design, install, and work on such systems and oversee that kind of work.

B. Both through decades of experience working with the systems as well as training and education from equipment manufacturers and suppliers through educational seminars and materials, I have not only learned how to design and inspect such systems, including to determine how much water, water pressure, elevation change, and other factors affect the flow rate and volume such systems use.

C. I used generally accepted methods and practices followed by hydrologists, engineers, designers, and others in the water irrigation system business to provide the opinions set forth below in this Declaration.

4. I was hired by Mike and Sally Hamilton to inspect, test, measure, and otherwise document and provide opinions about the water collection and distribution systems on the Linderman property at 4377 N. 1400 E., Buhl, Idaho.
5. On December 10, 2020, I went to that property and conducted the inspection. Mr. Linderman and his counsel were present. Mike and Sally Hamilton and their counsel were also present. David Patterson was also there. I understand he was inspecting and identifying underground water systems.
6. During that inspection, I spoke with Mr. Linderman, who showed me the irrigation system utilized and explained to me how and to what extent he used it during the previous irrigation seasons. The assumptions I make below about the extent and frequency of the uses are based on those descriptions from Mr. Linderman.

7. Attached are true and accurate photos of the various parts of the system at the Linderman property that I saw on December 10, 2020. The photos each accurately represent the actual pumps, piping systems, nozzles, and other water distribution parts which I observed on that day and which are described more specifically below. They are attached and incorporated into this Declaration as Exhibit 5, photos 1-16.
8. I am familiar with Exhibit A to the Declaration of Dave Patterson, namely a copy of an aerial photo of part of the Linderman property, which has been marked up and labeled to reflect the underground water collection system on the property. I will refer to that Exhibit in explaining what I observed during the December 10, 2020, inspection.
9. The Exhibit where it is labeled "01 PUMP" is the primary point where the water irrigation system begins. It consists of a vertical culvert which collects water. That is the water which is pumped through the system. Exhibit 5, photo 1 & 3. The pump which pressurizes as the system and distributes the water is mounted to the culvert. It is a 2 hp, Water Ace model R20L. Exhibit 1, Exhibit 5, photo 3 & 6. According to the manufacturer's specifications, it is designed to pump 43 gpm (gallons per minute) at 35 psi (pounds per square inch). Exhibit 1.
10. The water is pumped through a piping system so that it can be applied not only to the lawn but the entire Linderman property with the exception of the driveway area, according to Mr. Linderman, through sprinkler heads. Mr. Linderman uses various configurations of sprinkler heads to irrigate different areas of his property.
11. The three types of sprinkler heads he uses are as follows:

A. He has a "big gun," which is a single sprinkler head on a portable cart with piping running back to the pump. I measured its nozzle at 5/16" and the back 1/4" port was plugged. Exhibit 5, photo 7. According to the attached specifications, in that condition, that gun will spray from 16.4 to 17.7 gpm at the pressure supplied by the Water Ace pump. Exhibit 3 & 4.

B. He has a couple smaller sprinkler heads which are on carts similar to the one above. Exhibit 5, photo 7. Each has a 5/32" nozzle which would spray between 4.1 and 4.5gpm at the pump pressures I have described.

C. He has numerous small sprinkler heads which are used along the fence lines and other boarders. Exhibit 5, photo 8. Each of those heads has a 9/64" nozzle which would spray between 3.3 to 3.5 gpm at those pump pressures.

12. During the inspection, I also measured the output of the hose bib which I understand is supplied by a domestic well, not the pump system. That hose bib loaded at a rate of about 5.6 gallons per minute and its flow was likely restricted by the piping of domestic plumbing system.

13. In sum, from Mr. Linderman's description of how frequently he irrigated and the combination of nozzle heads he would use at any one point in time, his system would be using at least 16.4 gpm, and the likely more as the other nozzles are added. With the pumps and sprinklers he has, I would estimate that, if the pump is only producing 30 psi, its typical irrigation flow rates would be conservatively between 35 and 52gpm when the system is running.

14. Additionally, while I was there, I saw a smaller pump that collected water from the creek about 80 to 100 feet to the west of the O1 PUMP. That pump is a three-quarter

horsepower Red Lion pump which pumps, according to the manufacturer's curve, 45 to 55 gpm. Exhibit 2. This pump had a pipe near it to supply water to it from the creek. Piping then ran from the Red Lion pump to discharge into the vertical culvert at the Water Ace pump. In other words, turning on the Redcap lion pump would supply water from the creek to the vertical culvert at the rate of 45 to 55 gpm. Exhibit 5, photos 10-16.

15. I certify and declare under penalty of perjury pursuant to the law of the State of Idaho that the foregoing is true and correct.

Dated this 10th day of February, 2021.


Tanner Butler

CERTIFICATE OF SERVICE

The undersigned hereby certifies that on the 12th day of February, 2021, (s)he served a true and correct copy of the within and foregoing document upon the following named person(s) by the method indicated below:

Justin May Nathan Fowler Angstman Johnson 199 S. Capitol Blvd. Ste. 200 Boise, ID 83702	☐ U.S. Mail ☐ Facsimile ☐ Hand Delivery ☒ E-mail
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