



## State of Idaho

# DEPARTMENT OF WATER RESOURCES

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BRAD LITTLE  
Governor

GARY SPACKMAN  
Director

January 10, 2023

SANDERS FAMILY LLLP  
C/O DAVE SANDERS  
PO BOX 205  
HAMER, ID 83425

Re: **APPROVED:** Request for Variance to Use Power Consumption Coefficient ("PCC")  
Tracking Number: 2022-869

Mr. Sanders,

On December 23, 2023, the Idaho Department of Water Resources ("Department") received your request for a variance from the requirement to install an approved measuring device as required by the July 20, 2016 *"Final Order on Reconsideration in the Matter of Requiring Measuring Devices for Ground Water Diversions in Water District Nos. 31, 34, 100, 110, 120, 130 and 140"* ("Order"). The Order allows for the consideration of variance requests to use an alternate method of measuring the flow rate and annual diversion volume for simple systems from a ground water point of diversion.

Details specific to your diversion (see attached map)

WMIS No.: 300770

Site Tag: A0008572

Water Right: 31-12192

Authorized Irrigable Acres: 29

### Reason for Approval:

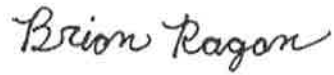
- This setup meets the criteria of a simple system
  - This irrigation system consists of a submersible ground water pump supplying a pivot with no booster pump. Attached end guns are on 100% of the time. No other electrical loads are measured through the power utility demand meter.

### Conditions of Approval:

1. This irrigation system and power supply must be operated as described in your Request for Variance to continue to use PCC as a valid measurement method for this well.
2. Prior to making any modifications to your irrigation system, you must contact your Watermaster to determine if this variance would remain applicable.

3. Starting in 2023 you must coordinate with the Watermaster to have the Power Consumption Coefficient for this diversion re-calculated at least every three years.

Sincerely,

A handwritten signature in cursive script that reads "Brian Ragan".

Brian W. Ragan  
Water Distribution Section  
Email: [brian.ragan@idwr.idaho.gov](mailto:brian.ragan@idwr.idaho.gov)

cc. Watermaster, Water District 110  
File



Map showing the point of diversion and the place of use.

2022-869

RECEIVED

version 1.2 - updated 7.18.2017

DEC 23 2022

Page 1 of 2



Idaho Department of Water Resources

DEPARTMENT OF  
WATER RESOURCES**REQUEST FOR VARIANCE:****IDWR APPROVED FLOW METER INSTALLATION REQUIREMENT**

A variance will only be considered or approved for simple systems, open discharge wells, or non-approved flow meters installed prior to the date of an IDWR measurement order. This request must be approved before you may use any alternate measurement method. *Complete one form for each affected well.*

**SECTION I: SITE DETAILS**

|                                                                                                           |                      |                     |                               |                   |                          |
|-----------------------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------------|-------------------|--------------------------|
| 1. Owner/Operator<br>Sanders Family LLLP                                                                  |                      |                     | 2. Well Name<br>WMIS # 300770 |                   |                          |
| 3. IDWR Site Tag No.<br>A0008572                                                                          | 4. Legal Description | 4a. Township<br>07N | 4b. Range<br>36E              | 4c. Section<br>15 | 5. Water District<br>110 |
| 6. Reporting District (ground water district, irrigation district, or other entity)<br>Water District 110 |                      |                     |                               |                   |                          |

**SECTION II: MEASUREMENT METHOD**

Select the method of measurement you wish to use and have approved. Choose one:

|                                     |                                                                                                                                                                               |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | 7. Power Consumption Coefficient (PCC): Only for irrigation diversions that consist of one well and one irrigation discharge point or one distinct flow and demand condition. |
| <input type="checkbox"/>            | 8. Hour Meter/Time Clock: One well, constant open discharge, no flow control valves.                                                                                          |
| <input type="checkbox"/>            | 9. Existing Operating Flow Meter: Installed prior to the date of the effective order and determined as acceptable by IDWR.                                                    |
| <input type="checkbox"/>            | 10. Standard Open Channel Device: One or multiple wells, open discharge, device must be read daily or flows must be continuously recorded.                                    |

**SECTION III: WELL DETAILS**

|                                                        |                                                                                                      |
|--------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| 11. Does the well open discharge into a pond or ditch? | <input type="checkbox"/> Yes <sup>†</sup> (continue to 13)<br><input checked="" type="checkbox"/> No |
| 12. Is the well interconnected to other wells?         | <input type="checkbox"/> Yes<br><input checked="" type="checkbox"/> No                               |
| 13. What is the pump discharge main line diameter?     | <u>6</u> inches                                                                                      |

**SECTION IV: SYSTEM DESCRIPTION**

|                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 14. Describe the irrigation equipment used with this well (such as center pivot with or without end gun, ¼ mile wheel lines, solid set hand lines, etc.), including the number and length of hand/wheel lines. Describe system as accurately or completely as possible, including different operating conditions if any.<br><i>This is a pasture circle for my cows in the fall. Center Pivot with non boosted end gun</i> |                                                                                         |
| 15. Does your pivot(s) system operate with corner machines?                                                                                                                                                                                                                                                                                                                                                                | <input type="checkbox"/> Yes<br><input checked="" type="checkbox"/> No                  |
| 16. Does your pivot(s) operate with an end gun?                                                                                                                                                                                                                                                                                                                                                                            | <input checked="" type="checkbox"/> Yes<br><input type="checkbox"/> No (continue to 18) |
| 17. Estimate of the percent of time the end gun operates:                                                                                                                                                                                                                                                                                                                                                                  | <u>100</u> % of time                                                                    |
| 18. Approximate number of acres irrigated by this well:                                                                                                                                                                                                                                                                                                                                                                    | <u>29</u> acres                                                                         |

Continued on next page

**SECTION V: MEASUREMENT SYSTEM DETAILS**

|                                                                                                                                                          |                                            |                                                                                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| 19. Is there a flow meter presently installed on this well?                                                                                              |                                            | <input checked="" type="checkbox"/> Yes (complete 19a – 19d)<br><input type="checkbox"/> No (continue to 20)            |
| 19a. Meter Type<br><b>Magmeter</b>                                                                                                                       | 19b. Meter Manufacturer<br><b>Sparling</b> |                                                                                                                         |
| 19c. Meter Installation Date<br><b>4-18</b>                                                                                                              | 19d. Is the meter operable?                | <input type="checkbox"/> Yes<br><input checked="" type="checkbox"/> No                                                  |
| 20. Are there multiple pumps or other electrical loads wired to the same electrical demand meter, such as surface water pumps, booster pumps, or pivots? |                                            | <input type="checkbox"/> Yes* (complete 20a – 20c)<br><input checked="" type="checkbox"/> No (continue to 21)           |
| 20a. Describe other electrical loads referred to in question 19                                                                                          |                                            |                                                                                                                         |
| 20b. Number of in-line pressure boosters:                                                                                                                |                                            | _____ boosters                                                                                                          |
| 20c. Do in-line pressure boosters <i>always</i> run with the well?                                                                                       |                                            | <input type="checkbox"/> Yes*<br><input type="checkbox"/> No                                                            |
| 21. Does the system operate with a variable frequency drive?                                                                                             |                                            | <input type="checkbox"/> Yes* (complete 21a)<br><input checked="" type="checkbox"/> No (continue to 22)                 |
| 21a. Frequency drive location:                                                                                                                           |                                            | <input type="checkbox"/> on booster motor<br><input type="checkbox"/> on well motor<br><input type="checkbox"/> on both |
| 22. Does the well supply water for use other than irrigation, such as commercial or stockwater?                                                          |                                            | <input type="checkbox"/> Yes* (complete 22a)<br><input checked="" type="checkbox"/> No (continue to 23)                 |
| 22a. Describe other uses referenced in question 22:                                                                                                      |                                            |                                                                                                                         |
| 23. Does the well production decrease over the irrigation season?                                                                                        |                                            | <input type="checkbox"/> Yes*<br><input checked="" type="checkbox"/> No                                                 |
| 24. Does pumping water level decrease over the irrigation season?                                                                                        |                                            | <input type="checkbox"/> Yes* (complete 24a)<br><input checked="" type="checkbox"/> No <sup>†</sup>                     |
| 24a. Approximately how many feet does the water level decrease?                                                                                          |                                            | _____ feet                                                                                                              |

**SECTION VI: SYSTEM DIAGRAMS AND MAPS (Required for all variance requests)**

Attach a diagram or photos of the wellhead and pumping plant. Include or show locations of all proposed or existing flow meters. Indicate the location of and spacing between boosters, valves, elbows, chemigation ports, etc.

**SECTION VII: APPLICANT SIGNATURE AND CONTACT INFORMATION**

|                            |                      |                        |
|----------------------------|----------------------|------------------------|
| <u>David Sanders</u>       | <u>David Sanders</u> | <u>owner</u>           |
| Signature                  | Print Name           | Title (if applicable)  |
| <u>2473E 2100 N</u>        | <u>P.O. Box 205</u>  | <u>Hamer, ID 83425</u> |
| Mailing Address            |                      |                        |
| <u>sanders@mudlake.net</u> | <u>208-201-3351</u>  | <u>12-21-22</u>        |
| Email Address              | Phone Number         | Date                   |

Return this completed and signed form to:

IDWR Water Distribution Section  
PO Box 83720  
Boise, ID 83720-0098

\* 'Yes' on questions 20 – 24 indicates a system that is an unlikely candidate for Power Consumption Coefficient (PCC) method of measurement. A flow meter must be installed.

<sup>†</sup> 'Yes' on question 11 and 'No' on question 24 indicates a system that may be a candidate for an hour meter measurement method.



