State of Idaho
Department of Water Resources

# Water Right License

**Water Right No. 63-34514**

**Priority**: March 19, 2018

**Maximum Diversion Rate:** 0.10 CFS
**Maximum Diversion Volume:** 18.2 AF

It is hereby certified that:

WILLIAM JOHNSON 7690 SONARA RD CALDWELL ID 83607-5516 AND/OR
DEBORAH JOHNSON 7690 SONARA RD CALDWELL ID 83607-5516

has complied with the terms and conditions of the permit, issued pursuant to Application for Permit dated March 19, 2018, and has submitted Proof of Beneficial Use on September 10, 2021. An examination confirms water is diverted from:

**Source :** GROUND WATER

| Beneficial Use | Period of Use | Rate of Diversion | Annual Volume |
|---|---|---|---|
| IRRIGATION | 03/01 to 11/15 | 0.10 CFS | 17.6 AF |
| DOMESTIC | 01/01 to 12/31 | 0.04 CFS | 0.6 AF |

**Location of Point(s) of Diversion**
GROUND WATER SW¼ SE¼, Sec. 36, Twp 06N, Rge 03W, B.M. GEM County

**Place of Use:** IRRIGATION

| Twp | Rng | Sec | NE | | | | NW | | | | SW | | | | SE | | | | Totals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE | |
| 06N | 03W | 36 | | | | | | | | | | | | | 0.7 | 0.4 | 1.2 | 1.6 | 3.9 |

Total Acres: 3.9

**Place of Use:** DOMESTIC

| Twp | Rng | Sec | NE | | | | NW | | | | SW | | | | SE | | | | Totals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE | |
| 06N | 03W | 36 | | | | | | | | | | | | | | | X | X | |

**Conditions of Approval**

1. This right when combined with all other rights shall provide no more than 0.03 cfs per acre nor more than 4.5 afa per acre at the field headgate for irrigation of the place of use.
2. Domestic use is for 1 home. Irrigation of lawn, garden and landscaping associated with the home is authorized under the irrigation component of this right.
3. Point of diversion is located within Lot 21, High Vista Estates Subdivision.
4. Place of use is located within Lot 21, High Vista Estates Subdivision.
5. When ordered by the Director, the right holder shall provide mitigation acceptable to the Director to offset depletion of lower Snake River flows needed for migrating anadromous fish. The amount of water required for mitigation, which is to be released into the Snake River or a tributary for this purpose, will be determined by the Director based upon the reduction in flow caused by the use of water pursuant to this right. Any order of the Director issued in accordance with this paragraph shall be in conformance with applicable rules allowing the right holder due process as the need for mitigation and the amount of mitigation are determined.

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DEC 01 2022

**State of Idaho**
**Department of Water Resources**

# Water Right License

**Water Right No. 63-34514**

This license is issued pursuant to the provisions of Idaho Code § 42-219. The water right confirmed by this license is subject to all prior water rights and shall be used in accordance with Idaho law and applicable rules of the Department of Water Resources.

Signed this 28th day of November, 2022.

SCOTT STORMS
Water Rights Supervisor

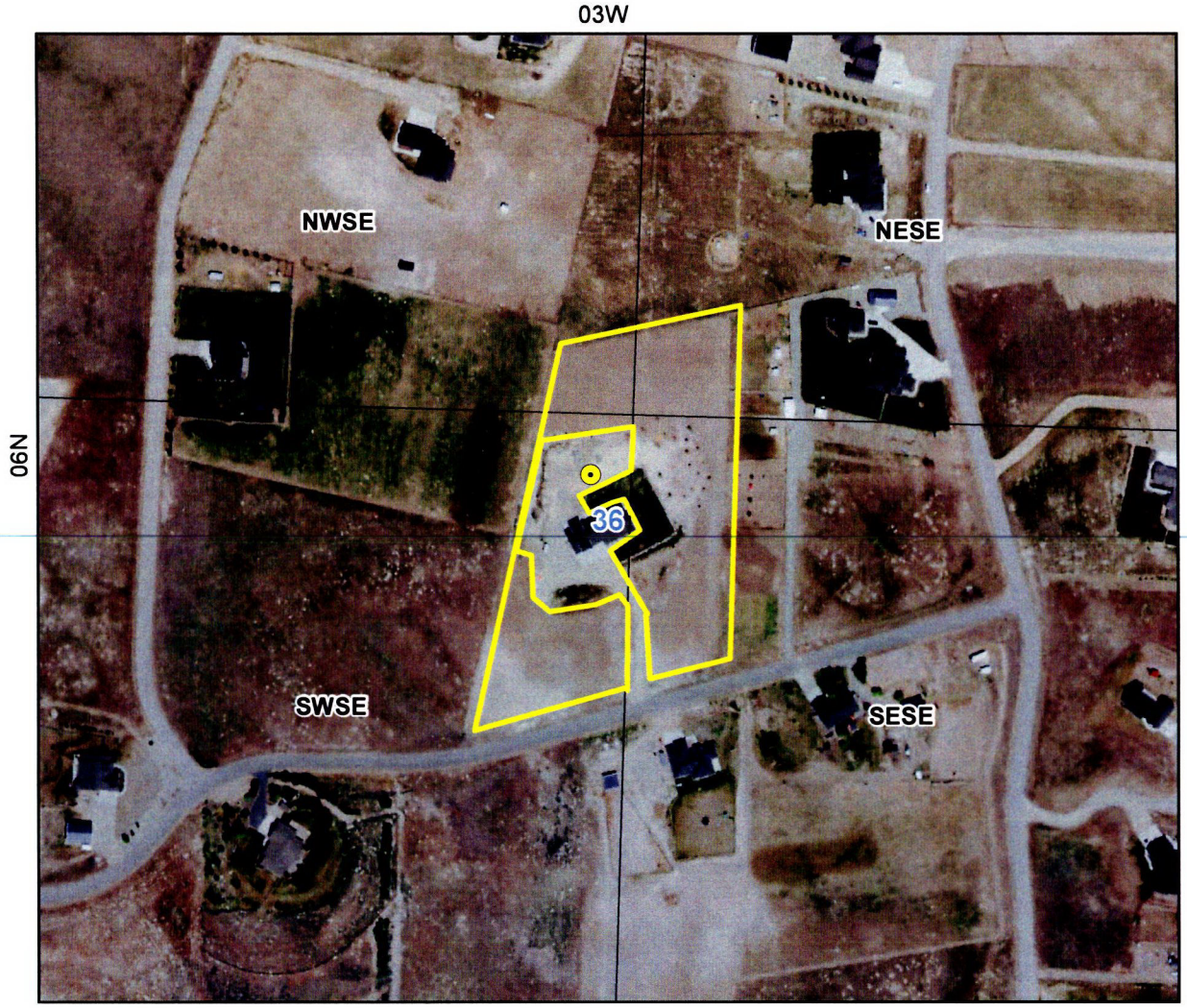
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State of Idaho
Department of Water Resources

# Attachment to Water Right License

63-34514

This map depicts the IRRIGATION place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.




Place Of Use Boundary
Townships
PLS Sections
Quarter Quarters
Point of Diversion

0 0.035 0.07 0.14 Miles

N

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State of Idaho
Department of Water Resources

# Attachment to Water Right License

63-34514

This map depicts the DOMESTIC place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.




Place Of Use Boundary
Townships
PLS Sections
Quarter Quarters
Point of Diversion

0 0.035 0.07 0.14 Miles

N

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IDAHO DEPARTMENT OF
WATER RESOURCES

Western Region • 2735 W Airport Way • Boise, ID 83705-5082
Phone: 208-334-2190 • Fax: 208-334-2348 • Email: westerninfo@idwr.idaho.gov • Web: idwr.idaho.gov

Governor Brad Little

Director Gary Spackman

November 29, 2022

WILLIAM JOHNSON & DEBORAH JOHNSON
7690 SONARA RD
CALDWELL ID 83607-5516

RE: License No. 63-34514

**ISSUANCE OF LICENSE**

Dear Water Right Holder(s):

The Department of Water Resources ("Department") has issued the enclosed Water Right License confirming that a water right has been established in accordance with your permit. Please be sure to thoroughly review all the conditions of approval listed on your license. The conditions may include ongoing requirements, such as maintenance of a measuring device or implementation of mitigation, as well as information about how your water use may be administered, such as regulation by a watermaster in a water district.

The license is a PRELIMINARY ORDER issued by the Department pursuant to Rule 730 of the Department's Rules of Procedure (IDAPA 37.01.01.730). It can and will become a final order without further action by the Department unless a party petitions for reconsideration, files exceptions, or requests a hearing as described in the enclosed information sheet.

Also, please note that water right owners are required to report any change of water right ownership and/or mailing address to the Department within 120 days of the change. Water right forms are available from any office of the Department or on the Department's website at idwr.idaho.gov

If you have any questions concerning the enclosed information, please contact me at (208) 605-4624.

Sincerely,

Lynne E Vans

for Scott Storms
Water Rights Supervisor

Enclosure(s)

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## CERTIFICATE OF SERVICE

I hereby certify that on November 29, 2022, I served a true and correct copy of Water Right License No. 63-34514 by U.S. Mail, postage prepaid, to the following:

WILLIAM JOHNSON
7690 SONARA RD
CALDWELL ID 83607-5516

DEBORAH JOHNSON
7690 SONARA RD
CALDWELL ID 83607-5516

Lynne Evans
Administrative Assistant I



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# EXPLANATORY INFORMATION TO ACCOMPANY A PRELIMINARY ORDER

(To be used in connection with actions when a hearing was **not** held)

(Required by Rule of Procedure 730.02)

The accompanying order or approved document is a "**Preliminary Order**" issued by the department pursuant to section 67-5243, Idaho Code. **It can and will become a final order without further action of the Department of Water Resources ("department") unless a party petitions for reconsideration, files an exception and brief, or requests a hearing as further described below:**

## PETITION FOR RECONSIDERATION

Any party may file a petition for reconsideration of a preliminary order with the department within fourteen (14) days of the service date of this order. **Note: the petition must be received by the department within this fourteen (14) day period.** The department will act on a petition for reconsideration within twenty-one (21) days of its receipt, or the petition will be considered denied by operation of law. See Section 67-5243(3) Idaho Code.

## EXCEPTIONS AND BRIEFS

Within fourteen (14) days after: (a) the service date of a preliminary order, (b) the service date of a denial of a petition for reconsideration from this preliminary order, or (c) the failure within twenty-one (21) days to grant or deny a petition for reconsideration from this preliminary order, any party may in writing support or take exceptions to any part of a preliminary order and may file briefs in support of the party's position on any issue in the proceeding with the Director. Otherwise, this preliminary order will become a final order of the agency.

## REQUEST FOR HEARING

Unless a right to a hearing before the Department or the Water Resource Board is otherwise provided by statute, any person aggrieved by any final decision, determination, order or action of the Director of the Department and who has not previously been afforded an opportunity for a hearing on the matter may request a hearing pursuant to section 42-1701A(3), Idaho Code. A written petition contesting the action of the Director and requesting a hearing shall be filed within fifteen (15) days after receipt of the denial or conditional approval.

## ORAL ARGUMENT

If the Director grants a petition to review the preliminary order, the Director shall allow all parties an opportunity to file briefs in support of or taking exceptions to the preliminary order and may schedule oral argument in the matter before issuing a final order. If oral arguments are to be heard, the Director will within a reasonable time period notify each party of the place, date and hour for the argument of the case. Unless the Director orders otherwise, all oral arguments will be heard in Boise, Idaho.



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## CERTIFICATE OF SERVICE

All exceptions, briefs, requests for oral argument and any other matters filed with the Director in connection with the preliminary order shall be served on all other parties to the proceedings in accordance with IDAPA Rules 37.01.01302 and 37.01.01303 (Rules of Procedure 302 and 303).

## FINAL ORDER

The Director will issue a final order within fifty-six (56) days of receipt of the written briefs, oral argument or response to briefs, whichever is later, unless waived by the parties or for good cause shown. The Director may remand the matter for further evidentiary hearings if further factual development of the record is necessary before issuing a final order. The department will serve a copy of the final order on all parties of record.

Section 67-5246(5), Idaho Code, provides as follows:

> Unless a different date is stated in a final order, the order is effective fourteen (14) days after its service date if a party has not filed a petition for reconsideration. If a party has filed a petition for reconsideration with the agency head, the final order becomes effective when:
>
> (a) The petition for reconsideration is disposed of; or
> (b) The petition is deemed denied because the agency head did not dispose of the petition within twenty-one (21) days.

## APPEAL OF FINAL ORDER TO DISTRICT COURT

Pursuant to sections 67-5270 and 67-5272, Idaho Code, if this preliminary order becomes final, any party aggrieved by the final order or orders previously issued in this case may appeal the final order and all previously issued orders in this case to district court by filing a petition in the district court of the county in which:

i. A hearing was held,
ii. The final agency action was taken,
iii. The party seeking review of the order resides, or
iv. The real property or personal property that was the subject of the agency action is located.

The appeal must be filed within twenty-eight (28) days of this preliminary order becoming final. See section 67-5273, Idaho Code. The filing of an appeal to district court does not itself stay the effectiveness or enforcement of the order under appeal.



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STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
**BENEFICIAL USE FIELD REPORT**

**A. GENERAL INFORMATION**

**Permit No:** 63-34514
**Exam Date:** 04/19/2022

1. Current Owner:
DEBORAH JOHNSON 7690 W SONARA RD CALDWELL ID 83607 AND/OR
WILLIAM JOHNSON 7690 W SONARA RD CALDWELL ID 83607

2. Accompanied by: WILLIAM JOHNSON
Phone No:20-615-1911
Address: 7690 W SONARA RD CALDWELL ID 83607
Relationship to permit Holder: Is the permit holder

3. **SOURCE:**
GROUND WATER

**Method of Determination:** Site visit, aerial imagery

**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: 63-33517
2. Other water rights with the same point-of-diversion: None

**C. DIVERSION AND DELIVERY SYSTEM**

1. **LOCATION OF POINT(S) OF DIVERSION:**
GROUND WATER SW¼ SE¼, Sec. 36, Twp 06N, Rge 03W, B.M. GEM County

Method of Determination: GPS at 43° 48.632N, 116° 36.284W

**PLACE OF USE:** IRRIGATION

| Twp | Rng | Sec | NE | | | | NW | | | | SW | | | | SE | | | | Totals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE | |
| 06N | 03W | 36 | | | | | | | | | | | | | 0.7 | 0.4 | 1.2 | 1.6 | 3.9 |

Total Acres: 3.9

**PLACE OF USE:** DOMESTIC

| Twp | Rng | Sec | NE | | | | NW | | | | SW | | | | SE | | | | Totals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE | |
| 06N | 03W | 36 | | | | | | | | | | | | | | | X | X | |

Method of Determination: Field photos and aerial photography used to verify irrigation use site.

3.

x Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.

x Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.

N/A Aerial Photo Attached (required for irrigation of 10+ acres).

x Photo of Diversion and System Attached

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4.

| Well or Diversion ID No.* | Motor Make | Hp | Motor Serial No. | Pump Make | Pump Serial No. or Discharge Size |
|---|---|---|---|---|---|
| 0078489 | Franklin | 5hp | | **McDonald 24000** | |

## D. FLOW MEASUREMENTS

1.

| Measurement Equipment | Type | Make | Model No. | Serial No. | Size | Calib. Date |
|---|---|---|---|---|---|---|
| N/A | N/A | N/A | N/A | N/A | N/A | N/A |

2. Measurements: The buried pump and conveyance system did not provide suitable circumstances to directly measure the diversion rate

## E. FLOW CALCULATIONS

x Additional Computation Sheets Attached

Measured Method: Pump specifications and performance curve information provided by the applicant were used to estimate flow. Performance curve at maximum performance at 260' total head yields 44 gpm (0.10 cfs) capacity.

Theoretical Irrigation Use = 0.10 cfs

Theoretical Domestic Use = 0.04 cfs

Permitted Total Rate 0.19 cfs

License Recommendation 0.10 cfs

## F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$V_{I.R}$ = (Acres Irrigated) x (Irrigation Requirement) = 3.9 acres x 4.5 AFA = 17.6 AF

$V_{D.R}$ = [Diversion Rate (cfs)] x (Days in Irrigation season) x 1.9835 = 0.10 cfs x 259 days x 1.9835 = 27.9

V = Smaller of $V_{I.R}$ and $V_{D.R}$ = $V_{I.R}$ = 17.6 AF

2. Volume Calculations for Other Uses:

Domestic = 0.6 AF as per Apps Memo No. 22 "Definition of Domestic" when irrigation is not included.

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**G. NARRATIVE/REMARKS/COMMENTS**

Field exam was conducted on 05/02/22 by Water Right Agents, Marcelina Williams, and Justin Shearer. We were accompanied by Mr. William Johnson during the field exam. Mr. Johnson is the property owner and water user that applied for permit 63-34514. The application for permit was submitted on March 19 2018, and proof of beneficial use was submitted on September 13, 2021.

The point of diversion (POD) location was confirmed by a ground water well head in the SWSE QQ. Four POD locations were described on the permit to allow flexibility in drilling location, and a condition was included describing the permit only authorized one POD. It is recommended the other three POD locations be dropped from the license. The well located in the SWSE QQ uses an underground 2 hp Franklin motor and McDonald stainless steel pump to divert water underground, using 3" polyethylene piping. This main line extends to the end of the west side of the property and then runs north to south connecting drip lines, pasture sprinklers, and the landscaping irrigation system. Water right overlap review did not discover any other water rights associated with the ground water PODs.

The permit authorizes 0.19 cfs for irrigation and domestic use within SWSE, SESE, NWSE, NESE of Sec 36, T06N, R03W. Irrigation in all section QQs were developed, leaving about 1.1 acres of driveway space around the home unirrigated. Irrigation of 3.9 acres in all QQ sections was verified. ArcMap tools and aerial imagery, supported by photos taken during the field exam, were used to verify the POU area. Although the permit authorized 5 total acres, the license recommendation for the POU is 3.9 acres. Domestic use was confirmed by the existence of a home on the property. The home is in the SWSE & SESE of Sec. 36, T06N, R03W. No amendment required to correct the legal description of the POU.

The POD motor and pump are buried at unknown depths. Pump and motor information was provided by the applicant. Using the pump performance curve for the McDonald pump with maximum performance at 260 ft of total head, a theoretical flow rate of 0.10 cfs was calculated which is less than the permitted rate. The total recommended licensed flow rate for irrigation and domestic uses is 0.10 cfs.

An overlapping water right (63-33517) was found to intersect half of an acre in the NE corner of the POU area. A notice of abandonment form was filed by Mr. Williams Johnson on November 03, 2022, relinquishing any right to that portion of the water right.

Condition 103 replaced condition 121 per department standards. Condition R69 was carried forward to the license. Condition 26A, and 070 was removed. Condition WB5 was changed to 132 to clearly describe the combination of the domestic and irrigation uses.

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Have conditions of permit approval been met? __x__ Yes ____ No

**H. RECOMMENDATIONS**

**1. Recommended Amounts**

| Beneficial Use | Period of Use | Rate of Diversion | |
|---|---|---|---|
| IRRIGATION | 03/01 to 11/15 | 0.10 CFS | |
| DOMESTIC | 01/01 to 12/31 | 0.04 CFS | |

**Totals:** 0.10 CFS

**2. Recommended Amendments**

__x__ Change P.D. as reflected above ____ Add P.D. as reflected above ____ None

__x__ Change P.U. as reflected above ____ Add P.U. as reflected above ____ None

**I. AUTHENTICATION** Marcelina Williams

Field Examiner's Name Marcelina Williams Date 11/16/22

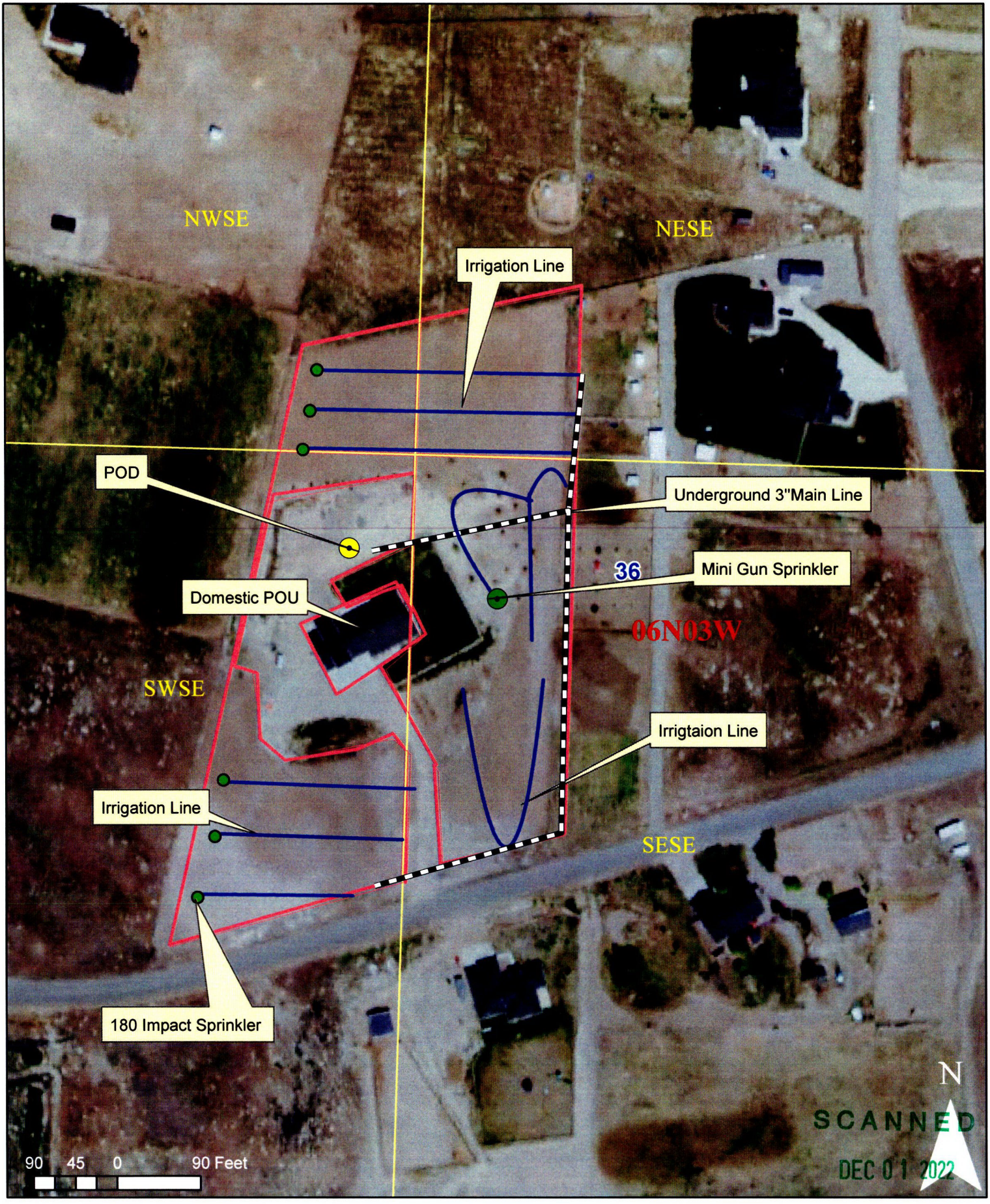
Reviewer _____ Date 11/28/2022

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# DELIVERY SYSTEM DIAGRAM

Water Right No. 63-34514



THEORETICAL HORSEPOWER EQUATION WORKSHEET

Water Right No.: 63-34514
Examiner: Marcelina Williams
Date of Field Exam: 4/19/2022

Irrigation Use

| P/D No.: | OPTION 1 | OPTION 2 | OPTION 3 | |
|---|---|---|---|---|
| PUMP HORSEPOWER | 5 | 5 | 5 | |
| BOOSTER HORSEPOWER | 0 | 0 | 0 | |
| PUMPING LEVEL | 260 | 300 | 340 | |
| DISCHARGE PRESSURE | 10 | 15 | 20 | |
| FRICTION | 4 | 5 | 6 | |
| | | | | AVE |
| RATE OF FLOW (cfs) | 0.11 | 0.09 | 0.08 | 0.09 |
| (gpm) | 48.2 | 40.7 | 35.2 | |

The above calculates the formula =

$$Q = \frac{8.8 * (\text{Efficiency}) * hp}{\text{depth to water} + 2.31*(\text{psi}) + \text{friction}}$$

Assumptions: %70 efficiency

Examiners Notes: Motor and pump are set at unknown depths.

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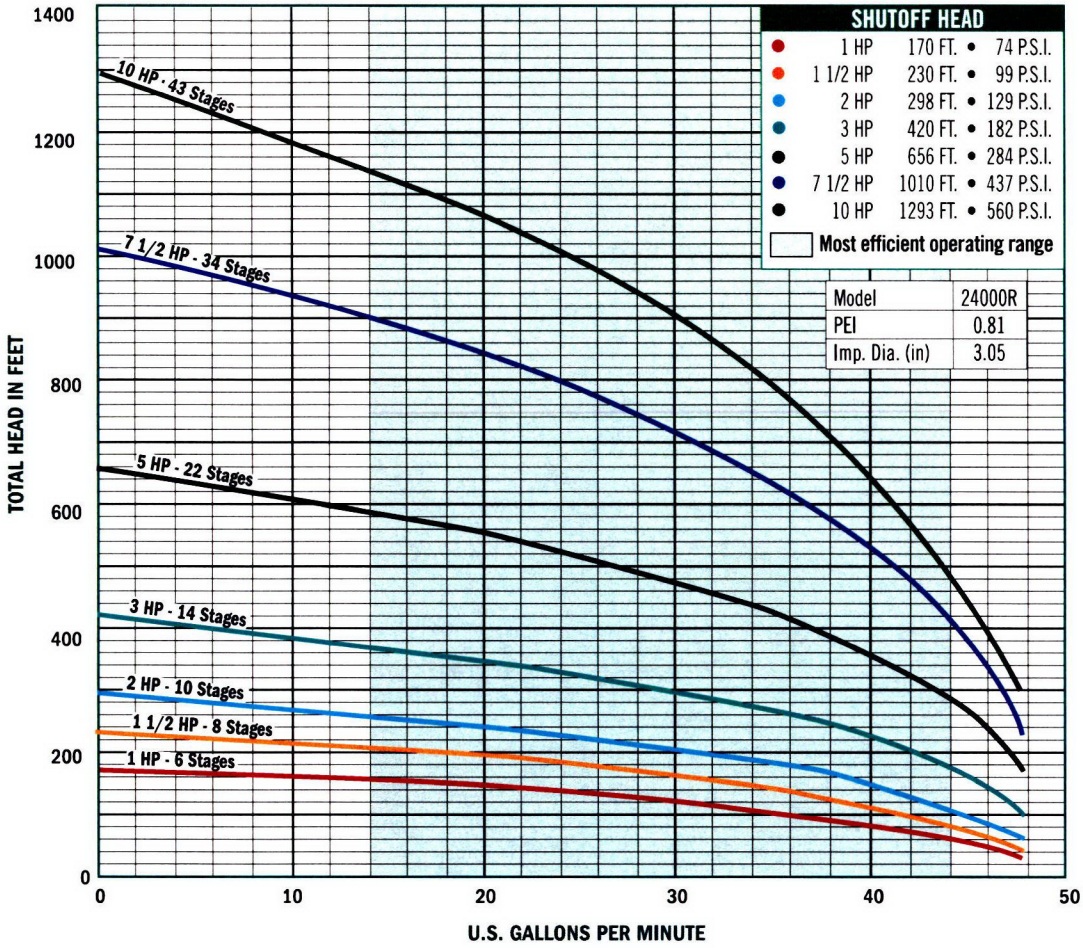
# SUBMITTAL DATA SHEET

24000 Series High Flow
4" No-Lead Stainless Steel Submersible Pumps

## R - 35 GPM



All Stainless Steel Submersible Pumps are designed to pump within the 35 gallons per minute (GPM) range. Sizes are available from 1 to 10 HP. All models are standard with 2" NPT discharge.




NO-LEAD: The weighted average of the wetted surface of this no-lead product contacted by consumable water contains less than one quarter of one percent (0.25%) lead.

EST. 1856 McDonald

**A.Y. McDonald Mfg. Co.**
P.O. Box 508
Dubuque, IA 52004-0508

**Toll Free:** 1-800-292-2737
**Fax:** 1-800-832-9296
**Hours:** 7:00 a.m. - 5:00 p.m., CST

sales@aymcdonald.com
www.aymcdonald.com

A.Y. McDonald considers the information on this assembly drawing correct when published. Item and option availability, including specifications, are subject to change without notice.

**Submitted by:**

SCANNED
3-2020
DEC 01 2022

# SUBMITTAL DATA SHEET

24000 Series High Flow
4" No-Lead Stainless Steel Submersible Pumps

## R - 35 GPM



### Two Wire Single Phase

| Model No. | HP | Stages | Volt | A | B | C | D | Wt. |
|---|---|---|---|---|---|---|---|---|
| 24100R2 | 1 | 6 | 230 | 14.1" | 2" | 3.9" | 29.1" | 38 |
| 24150R2 | 1 1/2 | 8 | 230 | 16.6" | 2" | 3.9" | 32.5" | 40 |

### Three Wire Single Phase

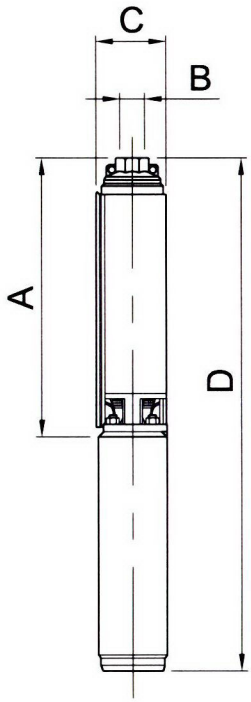
| Model No. | HP | Stages | Volt | A | B | C | D | Wt. |
|---|---|---|---|---|---|---|---|---|
| 24150R3Z | 1 1/2 | 8 | 230 | 16.6" | 2" | 3.9" | 31.5" | 42 |
| 24150R3Y | 1 1/2 | 8 | 460 | 16.6" | 2" | 3.9" | 31.5" | 37 |
| 24200R3Z | 2 | 10 | 230 | 19.0" | 2" | 3.9" | 35.0" | 62 |
| 24200R3Y | 2 | 10 | 460 | 19.0" | 2" | 3.9" | 35.0" | 48 |
| 24300R3Z | 3 | 14 | 230 | 23.9" | 2" | 3.9" | 41.2" | 60 |
| 24300R3Y | 3 | 14 | 460 | 23.9" | 2" | 3.9" | 41.2" | 54 |
| 24500R3Z | 5 | 22 | 230 | 35.2" | 2" | 3.9" | 62.0" | 79 |
| 24500R3Y | 5 | 22 | 460 | 35.2" | 2" | 3.9" | 62.0" | 74 |
| 24750R3Z | 7 1/2 | 34 | 230 | 49.5" | 2" | 3.9" | 76.4" | 98 |
| 24750R3Y | 7 1/2 | 34 | 460 | 49.5" | 2" | 3.9" | 76.4" | 97 |
| 241000R3Y | 10 | 43 | 460 | 51.9" | 2" | 3.9" | 82.7" | 159 |

### Three Wire Three Phase

| Model No. | HP | Stages | Volt | A | B | C | D | Wt. |
|---|---|---|---|---|---|---|---|---|
| 24100R3 | 1 | 6 | 230 | 14.1" | 2" | 3.9" | 29.1" | 38 |
| 24150R3 | 1 1/2 | 8 | 230 | 16.6" | 2" | 3.9" | 32.5" | 48 |
| 24200R3 | 2 | 10 | 230 | 19.0" | 2" | 3.9" | 36.3" | 52 |
| 24300R3 | 3 | 14 | 230 | 23.9" | 2" | 3.9" | 43.4" | 75 |
| 24500R3 | 5 | 22 | 230 | 35.2" | 2" | 3.9" | 62.0" | 103 |

### 4" Stainless Steel Pump Ends

| Model No. | HP | WT. |
|---|---|---|
| 24100R | 1 | 8 |
| 24150R | 1 1/2 | 9 |
| 24200R | 2 | 11 |
| 24300R | 3 | 13 |
| 24500R | 5 | 18 |
| 24750R | 7 1/2 | 26 |
| 241000R | 10 | 31 |




## Output - in Gallons Per Minute (Depth to Water)

| | PSI | 20' | 40' | 60' | 80' | 100' | 120' | 140' |
|---|---|---|---|---|---|---|---|---|
| 1 HP | 0 | | | 43 | 39 | 34 | 27.5 | 17.5 |
| | 30 | 38 | 32 | 24 | 15 | 19 | | |
| | 50 | 24 | 14 | | | | | |

| | PSI | 20' | 40' | 60' | 80' | 100' | 120' | 140' | 160' | 180' | 200' |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1½ HP | 0 | | | | 44 | 42 | 38 | 34 | 30 | 24 | 16 |
| | 30 | | 40 | 37 | 28 | 25 | 22 | 10 | | | |
| | 50 | 37 | 28 | 25 | 20 | 8 | | | | | |

| | PSI | 40' | 60' | 80' | 100' | 120' | 140' | 160' | 180' | 200' | 220' | 240' | 260' |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 HP | 0 | | | | 44.3 | 42.3 | 41 | 39 | 35 | 30 | 24 | 18 | 12 |
| | 30 | | 42 | 41 | 39 | 35 | 30 | 21 | 16 | 9 | | | |
| | 50 | 41 | 39 | 35 | 30 | 21 | 16 | 8 | | | | | |

| | PSI | 60' | 80' | 100' | 120' | 140' | 160' | 180' | 200' | 220' | 240' | 260' | 280' | 300' | 340' | 380' |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 HP | 0 | | | | | | 44.5 | 43.5 | 42 | 40 | 38 | 35.8 | 32.2 | 28 | 20 | 10 |
| | 30 | | | 44 | 42.5 | 41 | 40 | 38 | 35 | 32 | 26 | 24 | 20 | 14 | | |
| | 50 | 42.5 | 41 | 40.5 | 39 | 36 | 34 | 31 | 27 | 22 | 18 | 13 | | | | |

| | PSI | 150' | 200' | 250' | 300' | 350' | 400' | 450' | 500' | 550' | 600' |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 HP | 0 | | | 45 | 43 | 40 | 36.5 | 32 | 26.8 | 20 | 11.8 |
| | 30 | | 44.5 | 42 | 39 | 32 | 30 | 24 | 16.8 | | |
| | 50 | 44.5 | 42.5 | 39.8 | 35.8 | 29. | 25 | | | | |

| | PSI | 300' | 350' | 400' | 450' | 500' | 550' | 600' | 650' | 700' | 750' | 800' | 850' | 900' |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7½ HP | 0 | | | | | 41 | 39 | 36.5 | 34 | 31 | 27 | 23.5 | 19 | 12 |
| | 30 | | | 41 | 40 | 38 | 35 | 32.3 | 29 | 25 | 22 | 17 | 12 | |
| | 50 | 43 | 42 | 40 | 37.8 | 5 | 31.3 | 29 | 26 | 21 | 16 | 12 | | |

| | PSI | 450' | 500' | 550' | 600' | 650' | 700' | 750' | 800' | 850' | 900' | 950' | 1000' | 1050' | 1100' | 1150' | 1200' |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 HP | 0 | | | | 43 | 41 | 40 | 38 | 36 | 34 | 31.5 | 28.5 | 26 | 22.3 | 18.2 | 14.2 | 10 |
| | 30 | | 43.2 | 41.2 | 40.3 | 38.3 | 37 | 35 | 33 | 30 | 27.3 | 24 | 21 | 17 | 13 | | |
| | 50 | 43.5 | 42.2 | 40.5 | 39.5 | 37 | 35.8 | 33 | 31 | 28 | 25 | 21 | 18 | | | | |

** All three wire pumps are available in three phase by selecting pump end and appropriate motor and starter kit.

**FRICTION LOSSES IN RISER PIPE HAVE NOT BEEN CALCULATED**

NO-LEAD: The weighted average of the wetted surface of this no-lead product contacted by consumable water contains less than one quarter of one percent (0.25%) lead.

EST. 1856 McDonald

**A.Y. McDonald Mfg. Co.**
P.O. Box 508
Dubuque, IA 52004-0508

**Toll Free:** 1-800-292-2737
**Fax:** 1-800-832-9296
**Hours:** 7:00 a.m. - 5:00 p.m., CST

sales@aymcdonald.com
www.aymcdonald.com

A.Y. McDonald considers the information on this assembly drawing correct when published. Item and option availability, including specifications, are subject to change without notice.

**Submitted by:**



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Form 238-7
6/07

63

Correct PLS: 06N 03W 36 SWSE
lat: 43 48.633 long: -116 38.281
corrected 02/10/2020

# IDAHO DEPARTMENT OF WATER RESOURCES
# WELL DRILLER'S REPORT

**1. WELL TAG NO.** D 0078489
Drilling Permit No. 886160
Water right or injection well # 63-34514 - irrigation + domestic

**2. OWNER:**
Name Bill Johnson COTNER BUILDING CO (BA permit)
Address 7690 Sonora Rd.
City Caldwell State ID Zip 83607

**3. WELL LOCATION:**
Twp. 6 North ☒ or South ☐ Rge. 3 East ☐ or West ☒
Sec. 36 1/4 NW 1/4 SE 1/4
Gov't Lot ____ County Gem
Lat. 43 ° 48.681 (Deg. and Decimal minutes)
Long. 116 ° 38.278 (Deg. and Decimal minutes)
Address of Well Site 7690 Sonora
City Caldwell
Lot. ____ Blk. ____ Sub. Name ____ Submitted as start card

**4. USE:**
☒ Domestic ☐ Municipal ☐ Monitor ☒ Irrigation ☐ Thermal ☐ Injection
☐ Other ____ Domestic use

**5. TYPE OF WORK:**
☒ New well ☐ Replacement well ☐ Modify existing well
☐ Abandonment ☐ Other ____

**6. DRILL METHOD:**
☒ Air Rotary ☐ Mud Rotary ☐ Cable ☐ Other ____

**7. SEALING PROCEDURES:**

| Seal material | From (ft) | To (ft) | Quantity (lbs or ft³) | Placement method/procedure |
|---|---|---|---|---|
| 3/4 bentonite | 0 | 160 | 3000lbs | dry pour |
| | | | | |

**8. CASING/LINER:**

| Diameter (nominal) | From (ft) | To (ft) | Gauge/ Schedule | Material | Casing | Liner | Threaded | Welded |
|---|---|---|---|---|---|---|---|---|
| 6" | +2 | 348 | .250 | steel | ☒ | ☐ | ☐ | ☒ |
| 5" | 343 | 348 | .188 | steel | ☒ | ☐ | ☐ | ☒ |
| | | | | | ☐ | ☐ | ☐ | ☐ |
| | | | | | ☐ | ☐ | ☐ | ☐ |

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 348ft

**9. PERFORATIONS/SCREENS:**
Perforations ☐ Y ☒ N Method ____
Manufactured screen ☒ Y ☐ N Type johnson
Method of installation wash in

| From (ft) | To (ft) | Slot size | Number/ft | Diameter (nominal) | Material | Gauge or Schedule |
|---|---|---|---|---|---|---|
| 348 | 358 | .020 | --- | 5" | stainless | |
| | | | | | | |
| | | | | | | |

Length of Headpipe 5ft Length of Tailpipe ---
Packer ☒ Y ☐ N Type double wiper

**10. FILTER PACK:**

| Filter Material | From (ft) | To (ft) | Quantity (lbs or ft³) | Placement method |
|---|---|---|---|---|
| | | | | |
| | | | | |

**11. FLOWING ARTESIAN:**
Flowing Artesian? ☐ Y ☒ N Artesian Pressure (PSIG) ____
Describe control device ____

**12. STATIC WATER LEVEL and WELL TESTS:**
Depth first water encountered (ft) 236 Static water level (ft) 236
Water temp. (°F) 62degF Bottom hole temp. (°F) ____
Describe access port well cap

**Well test:**

| Drawdown (feet) | Discharge or yield (gpm) | Test duration (minutes) |
|---|---|---|
| --- | 50 | 150 |
| | | |

**Test method:** Pump ☐ ☐ Bailer ☐ ☐ Air ☒ ☐ Flowing artesian ☐ ☐

Water quality test or comments: ____

**13. LITHOLOGIC LOG and/or repairs or abandonment:**

| Bore Dia. (in) | From (ft) | To (ft) | Remarks, lithology or description of repairs or abandonment, water temp. | Water Y | Water N |
|---|---|---|---|---|---|
| 10" | 0 | 2 | top soil | | X |
| " | 2 | 12 | sandy brown clay | | X |
| " | 12 | 36 | fine brown sand | | X |
| " | 36 | 54 | sandy tan clay | | X |
| " | 54 | 75 | fine brown sand | | X |
| " | 75 | 92 | tan clay | | X |
| " | 92 | 114 | fine brown clay | | X |
| " | 114 | 136 | sandy tan clay | | X |
| " | 136 | 150 | fien brown sand | | X |
| " | 150 | 172 | sandy tan clay | | X |
| 6" | 172 | 188 | fine tan sand | | X |
| " | 188 | 214 | tan clay | | X |
| " | 214 | 219 | fine tan sand | | X |
| " | 219 | 236 | tan clay | | X |
| | 236 | 237 | coarse tan sand | X | |
| " | 237 | 251 | tan clay | | X |
| " | 251 | 257 | coarse tan sand | X | |
| " | 257 | 265 | sandy tan clay | | X |
| " | 265 | 272 | coarse brown sand | X | |
| " | 272 | 285 | tan clay | | X |
| " | 285 | 290 | coarse tan sand | X | |
| " | 290 | 294 | tan clay | | X |
| " | 294 | 306 | coarse brown sand | X | |
| " | 306 | 307 | sandy clay | | X |
| " | 307 | 334 | coarse brown sand | X | |
| | 334 | 335 | tan clay | | X |
| " | 335 | 340 | coarse brown sand | X | |
| " | 340 | 341 | tan clay | | X |
| " | 341 | 345 | coarse brown sand | X | |
| " | 345 | 348 | tan clay | | X |
| | 348 | 358 | med fine brown | X | |
| | | | | | |

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NOV 23 2018
WATER RESOURCES
WESTERN REGION

Completed Depth (Measurable): 358
Date Started: May 30, 2018 Date Completed: Jun 5, 2018

**14. DRILLER'S CERTIFICATION:**
I/We certify that all minimum well construction standards were complied with at the time the rig was removed

Company Name Coopse Well Drilling Co. No. 409
*Principal Driller Gary E Coopse Date Jun 5, 2018
*Driller ____ Date Jun 5, 2018
*Operator II ____ Date ____
Operator I ____ Date Jun 5, 2018

* Signature of Principal Driller and rig operator are required.

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Fig. 1 – Location of wells that is POD for Irrigation and Domestic use. Located in the SWSE QQ. View looking South towards the house that is used for domestic use.

GPS Location:

43° 48.633 N

116° 38.282' W



Fig. 2 –Irrigated acres of the back pasture that lie within the NWSE and NESE QQs. View looking North.

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Fig. 3 – Main line going north to connect to 360 impact sprinklers.



Fig. 4 – Irrigated acres in the SESE QQ. View looking East.

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Fig. 5 – Irrigated acres in the SESE QQ. View looking South.



Fig. 6 – Irrigated acres within the SWSE QQ. View looking West.

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Fig. 7 – 180 impact sprinkler that irrigates the perimeter of the POU. View looking South.



Fig. 8 – Junction points that connect irrigation lines to main line across the POU .

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Fig. 9 – Irrigated POU surrounding house in the SESE QQ area of the POU. View looking West.

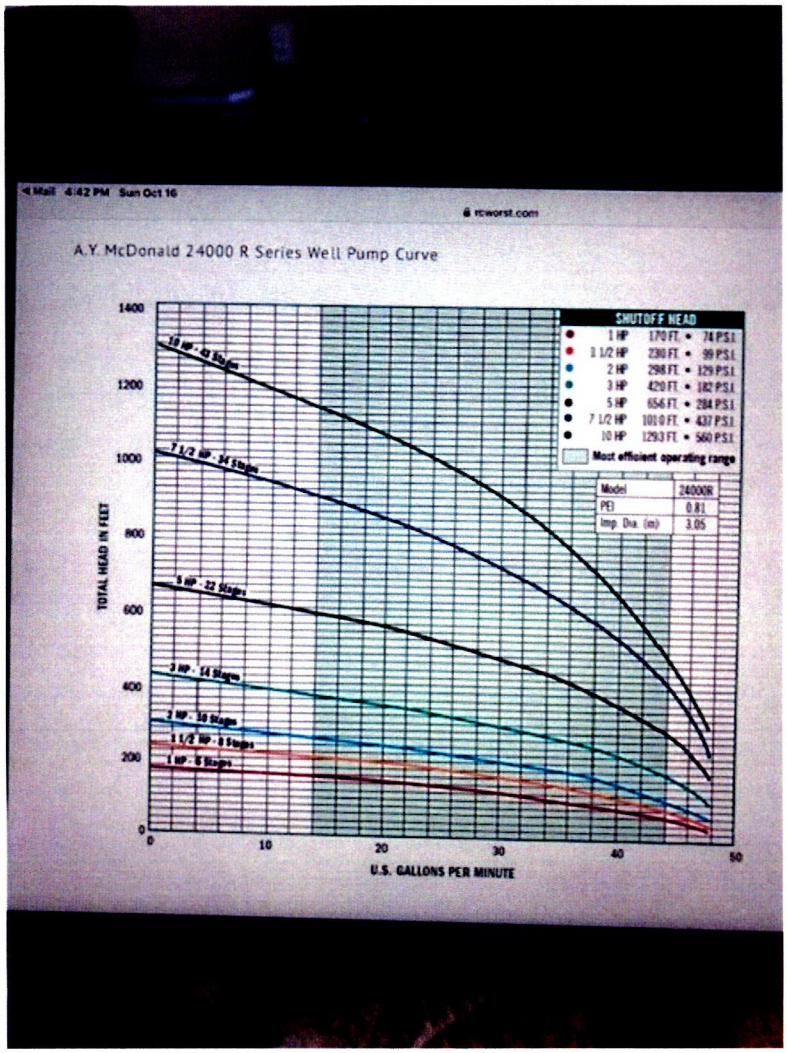



Fig. 10 – McDonald 24000 R series well pump curve.

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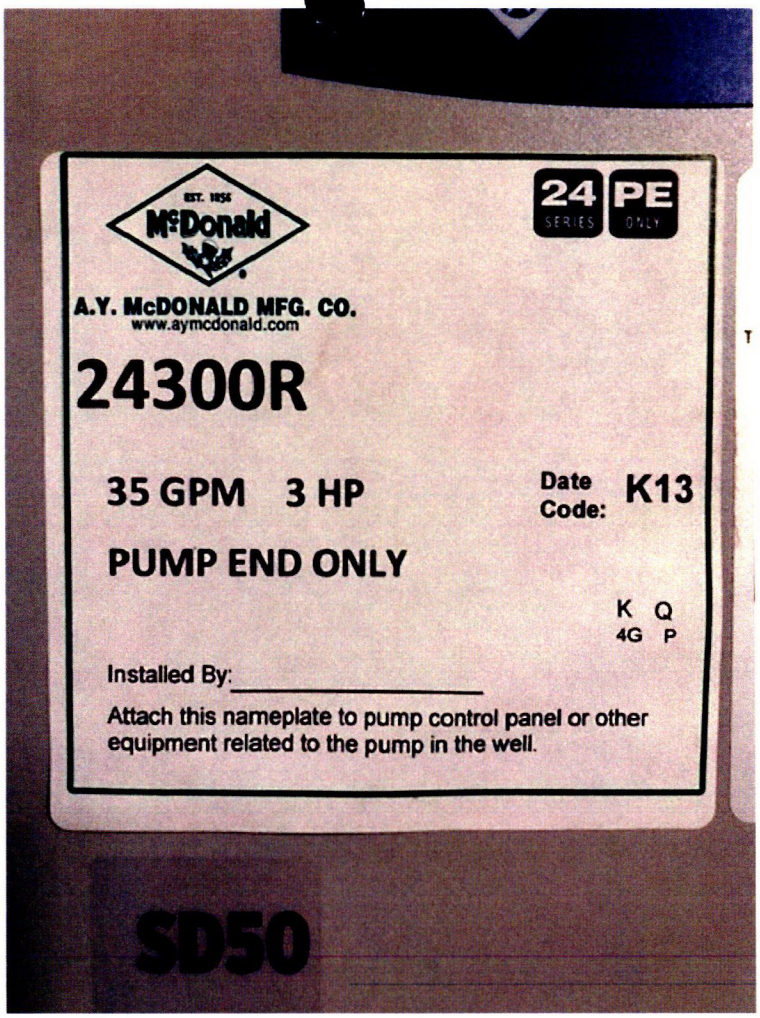



Fig. 11 – McDonald pump identification label.

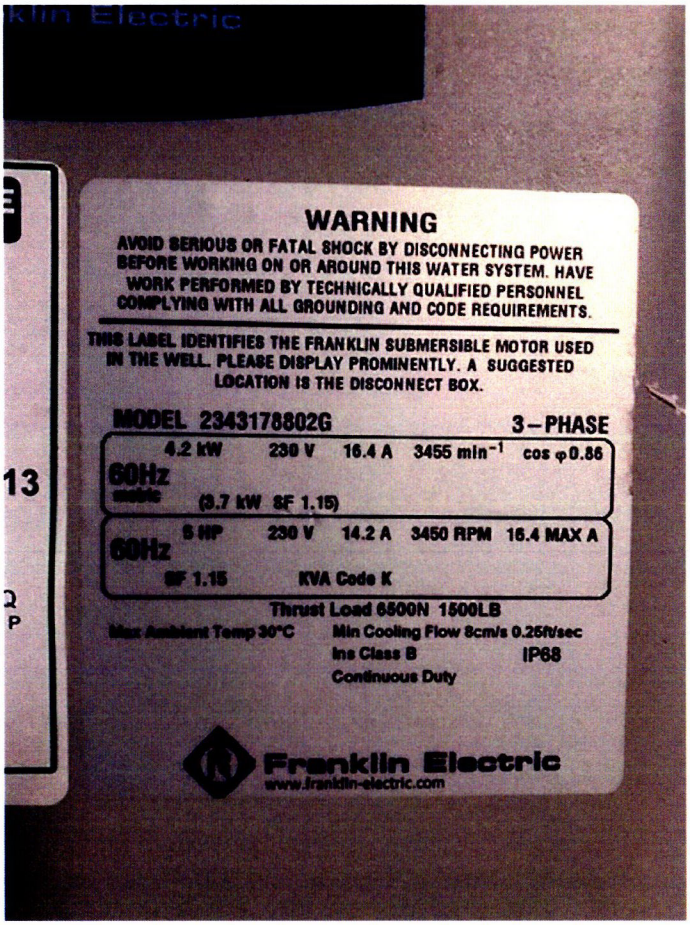



Fig. 12 – Franklin Electric 5HP identification label.

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