

State of Idaho
Department of Water Resources
Water Right License
Water Right No. 96-9815

Priority: July 26, 2020

Maximum Diversion Rate: 0.04 CFS

Maximum Diversion Volume: 1.3 AF

It is hereby certified that:

BAUCK FAMILY TRUST 367 RAVENWOOD LN SANDPOINT ID 83864-5019

has complied with the terms and conditions of the permit, issued pursuant to Application for Permit dated July 17, 2020, and has submitted Proof of Beneficial Use on September 10, 2021. An examination confirms water is diverted from:

Source : GROUND WATER

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	<u>Annual Volume</u>
STOCKWATER	01/01 to 12/31	0.02 CFS	0.1 AF
DOMESTIC	01/01 to 12/31	0.04 CFS	1.2 AF

Location of Point(s) of Diversion

GROUND WATER NW¼ SW¼, Sec. 20, Twp 57N, Rge 02W, B.M. BONNER County

Place of Use: DOMESTIC AND STOCKWATER

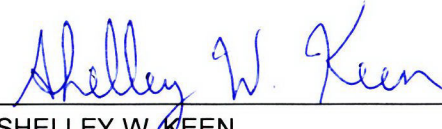
Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
57N	02W	20										X							

Conditions of Approval

1. Point of diversion is located within Lot 3, West Ridge Estates Subdivision.
2. Place of use is located within Lot 3, West Ridge Estates Subdivision.
3. Domestic use is for 1 home and a shop with bathroom.
4. The irrigation occurring under this domestic use shall not exceed 1/2 acre.
5. This right does not grant any right-of-way or easement across the land of another.

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 12th day of May, 20 .



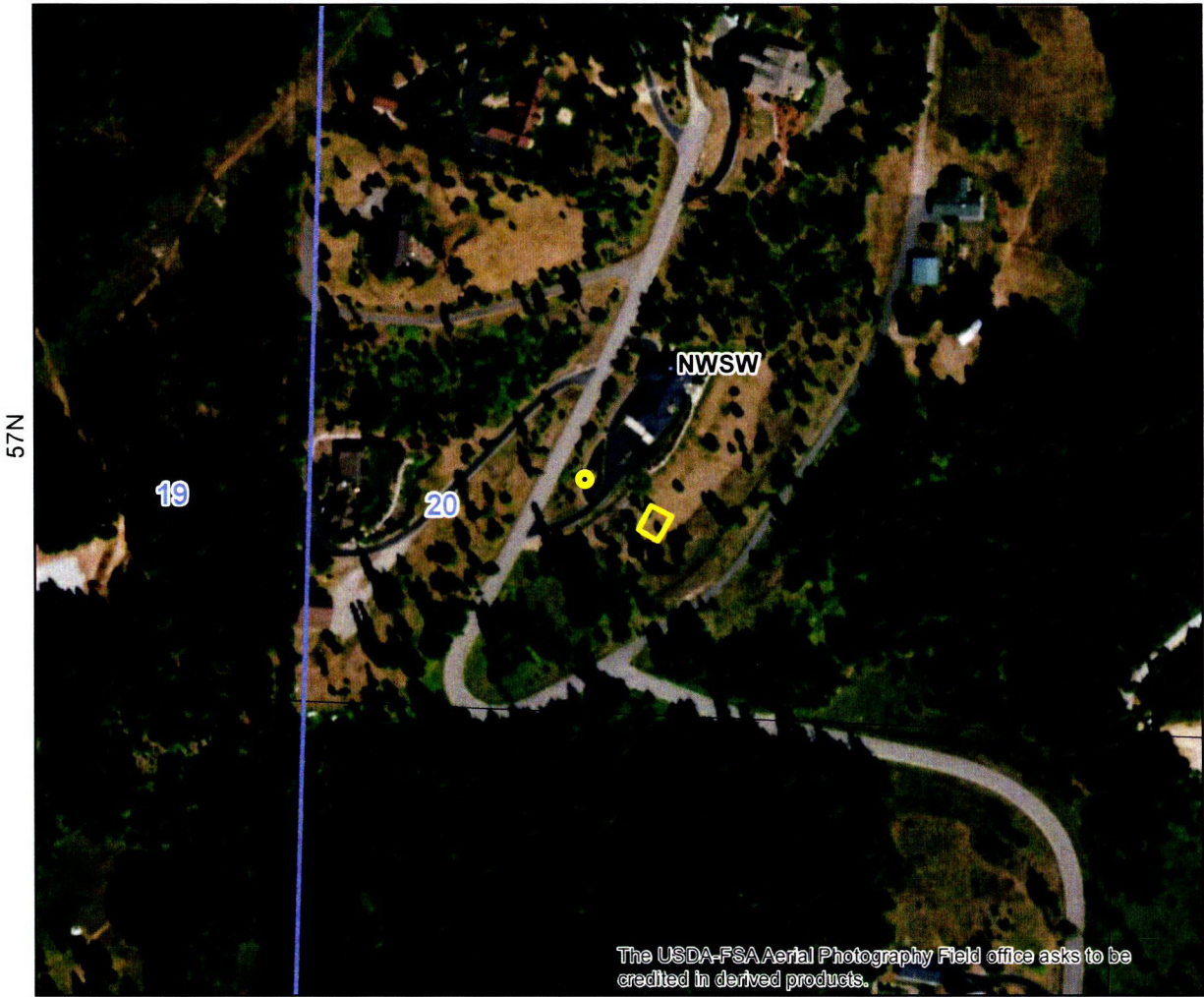
SHELLEY W. KEEN
Water Allocation Bureau Chief

SCANNED
MAY 17 2023

State of Idaho
Department of Water Resources
Attachment to Water Right License
96-9815

This map depicts the STOCKWATER 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.

02W



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

0 0.035 0.07 0.14 Miles

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MAY 17 2023

State of Idaho
Department of Water Resources
Attachment to Water Right License
96-9815

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.

02W



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

0 0.035 0.07 0.14 Miles



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MAY 17 2023



IDAHO DEPARTMENT OF
WATER RESOURCES

Northern Region • 7600 N Mineral Drive, Suite 100 • Coeur D'Alene, ID 83815-7763
Phone: 208-762-2800 • Fax: 208-762-2819 • Email: northerninfo@idwr.idaho.gov • Web: idwr.idaho.gov

Governor Brad Little

Director Gary Spackman

May 12, 2023

BAUCK FAMILY TRUST
367 RAVENWOOD LN
SANDPOINT ID 83864-5019

RE: License No. 96-9815

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 the Northern Region Office at (208) 762-2800.

Sincerely,

Shelley Keen
Water Allocation Bureau Chief

Enclosure(s)

SCANNED
MAY 17 2023

CERTIFICATE OF SERVICE

I hereby certify that on May 12, 2023, I served a true and correct copy of Water Right License No. 96-9815 by U.S. Mail, postage prepaid, to the following:

BAUCK FAMILY TRUST (Current Owner)
367 RAVENWOOD LN
SANDPOINT ID 83864-5019



Tammy Alleman
Administrative Assistant 1

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.

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.

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 96-9815
Exam Date: 05/24/2022

1. Current Owner:
BAUCK FAMILY TRUST 367 RAVENWOOD LN SANDPOINT ID 83864-5019
2. Accompanied by: Jeremy Bauck
Phone No: 702-610-9861
Address: same as above
Relationship to permit Holder: Permit holder

3. SOURCE:
GROUND WATER

Method of Determination: Arcmap and DRG.

B. OVERLAP REVIEW

1. Other water rights with the same place of use: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
96-9543	PEND OREILLE RIVER	MUNICIPAL	LICENSE & adjudication claim

Comments: Licensed WR 96-9543 uses a surface water source for municipal purposed associates with the City of Dover; this right is not associated with the applicant's parcel nor water system and not a concern for overlap. A claim has been filed for 96-9543 in the CFPRBA, but not applicable to this permit's POU. X35 is not recommended for use in licensing 96-9815.

2. Other water rights with the same point-of-diversion: NO Overlap

C. DIVERSION AND DELIVERY SYSTEM

1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER NW¼ SW¼, Sec. 20, Twp 57N, Rge 02W, B.M. BONNER County

Method of Determination: GPS; POD located at -116°36.5503, 48°16.2433 well D-Tag D0028264

PLACE OF USE: STOCKWATER & 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	
57N	02W	20										X							

Method of Determination: Beneficial use field examination and Arcmap aerial imagery.

3.
 - ☒ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
 - ☒ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
 - ☒ Aerial Photo Attached (required for irrigation of 10+ acres).
 - ☒ Photo of Diversion and System Attached

4.

Well or Diversion ID No.*	Motor Make	Hp	Motor part No.	Pump Make	Pump Serial No. or Discharge Size
D0028264	GOULDS	2.0	BF20		

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
NONE						

2. Measurements: Unable to perform a flow measurement due to inadequate pipe requirements. A Theoretic Pump Equation derived a flow rate of 16.3 gpm, for a 2 HP BF20 pump, or **0.04 cfs** considering department rounding standards

E. FLOW CALCULATIONS

X Additional Computation Sheets Attached

Measured Method: Theoretic Pump Equation = 2 hp pump installed at depth of 285 with operating pressure of 60 45 PSI derives a flow rate of 16.3 gpm or 0.04 cfs considering department rounding standards.

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation: N/A
2. Volume Calculations for Other Uses: Stockwater annual volume for 30 chickens = **0.1 af** considering department rounding standards

G. NARRATIVE/REMARKS/COMMENTS

Field exam conducted on 5/24/2022 with the applicant's representative, Jeremy Bauck, showed a groundwater well providing water for domestic & stockwater uses. At the POD, well D0028264 has a variable frequency drive Goulds pump/motor BF20 installed. Mr. Bauck is unclear whether it is a 1.5 hp or 2.0 hp pump motor, as it was installed when he purchased the property. I was unable to perform flow measurements as the main service line routes to 2ea 3,000-gal storage tanks prior to water system distribution.

I computed a theoretic pump equation for both hp pumps, and the 2.0 hp with pump depth of 285 ft & operating pressure of 45 PSI = 16.3 gpm or 0.04 cfs considering department rounding standards; this is the department standard for 1 home domestic use with irrigation which the applicant has applied for, and I am recommending **0.04 cfs** for domestic as well as the maximum diversion rate for licensing purposes. The stockwater diversion rate of **0.02 cfs** is not additive to the maximum diversion rate as it is limited by pump performance demonstrated at time of exam.

The domestic & stockwater POU(s) were walked with the applicant during the exam and sketched out on field maps. During licensing review Arcmap aerial imagery was used to trace out each POU which consist of a home w/shop, up to ½ acre irrigation, and a very nice utility structure used as a chicken coup. The annual volume for domestic equals **1.2 af**, annual volume for stockwater 30 chickens equals **0.1 af**, and the maximum diversion volume for licensing purposes equals **1.3 af**. The applicant waters yard, landscape, and garden space using micro emitters & hose to sprinklers. The terrain slopes off below the home and a portion of the applicant's parcel is not actively irrigated but benefits from sub-irrigation from above. This area was not included in the domestic POU.

Conditions 046 & X02 were removed from the permit during licensing review. Condition X59 was added to describe the POD being in a named subdivision lot. There are no overlap concerns for this water right.

SCANNED
MAY 17 2023

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS

1. Recommended Amounts

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	<u>Annual Volume</u>
STOCKWATER	01/01 to 12/31	0.02 CFS	0.1 AF
DOMESTIC	01/01 to 12/31	0.04 CFS	1.2 AF

Totals: 0.04 CFS 1.3 AF

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☒ None

I. AUTHENTICATION

Luke Bates -

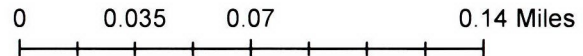
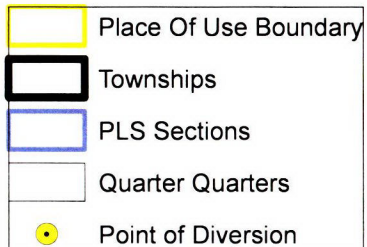
Field Examiner's Name  Date 8/12/2022

Reviewer _____ Date _____

State of Idaho
Department of Water Resources
Attachment to Field Exam
96-9815

DOMESTIC system diagram.

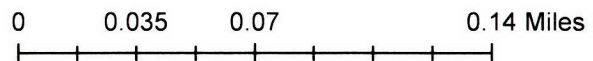
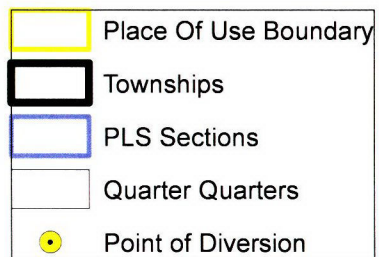
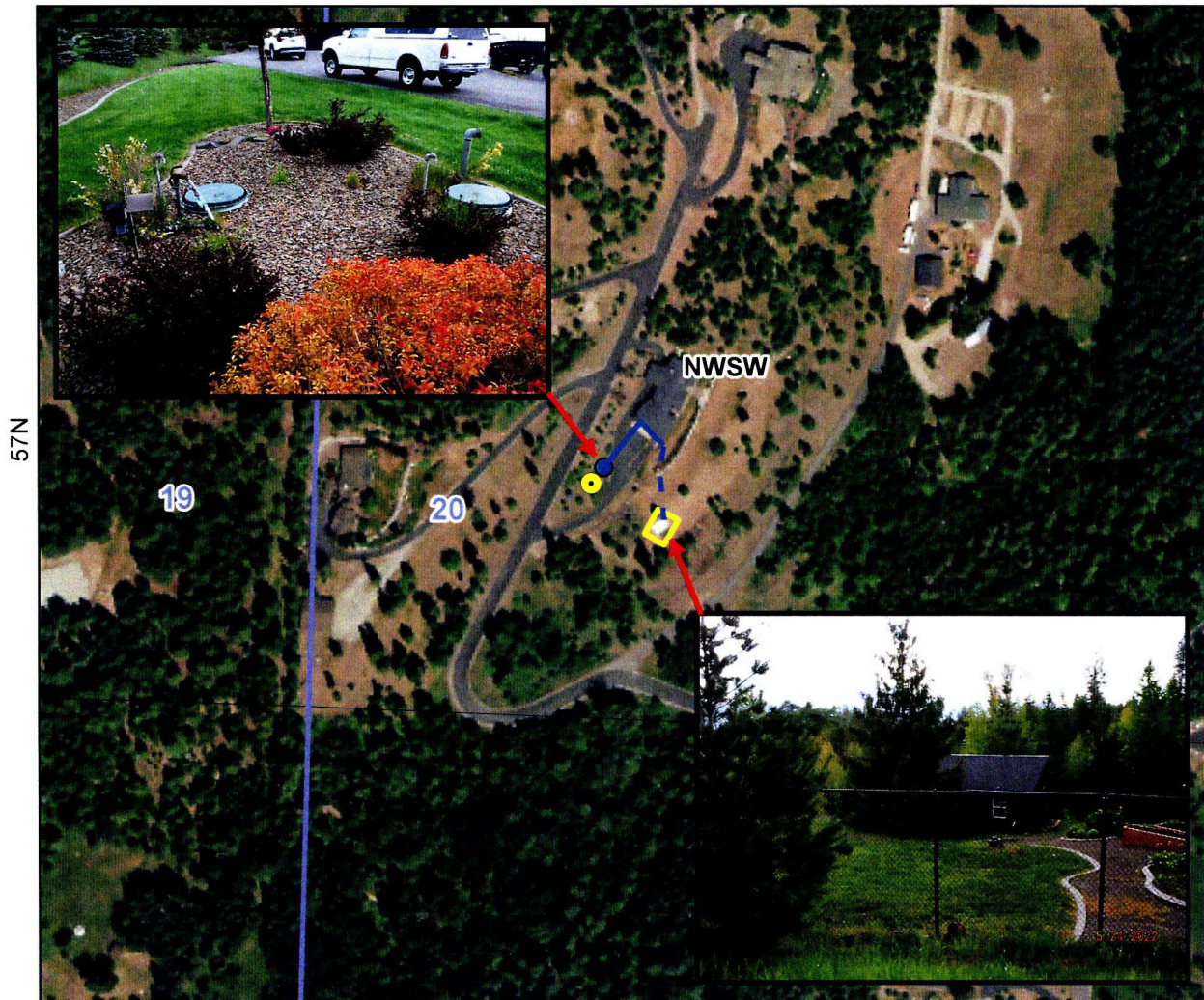
02W



SCANNED N
MAY 17 2023

STOCKWATER system diagram.

02W



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MAY 17 2023

THEORETICAL PUMPING EQUATION(S) FOR WR# 96-9815

Theoretical Pumping Equation is required because system did not allow for a proper measurement. Pump is estimated to lift 285 ft, and running at 45 psi.

<u>PUMP EQUATIONS</u>						
WATER RIGHT No. 96-9815						
D0028264		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/H	1.5	389.0816	0.8	285	45
Q = 0.027 cfs 12.2 gpm						

GRUNDFOS VARIABLE FREQ DRIVE PUMP MOTOR INSTALLED

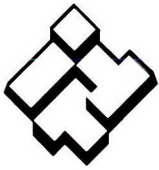
Theoretical Pumping Equation is required because system did not allow for a proper measurement. Pump is estimated to lift 285 ft, and running at 45 psi.

<u>PUMP EQUATIONS</u>					
WATER RIGHT No. 96-9815					
D0028264	HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q = HP*8.8*Eff/H	2	389.0816	0.8	285	45
Q = 0.036 cfs 16.3 gpm					

★
→
Recommend
For
Licensing

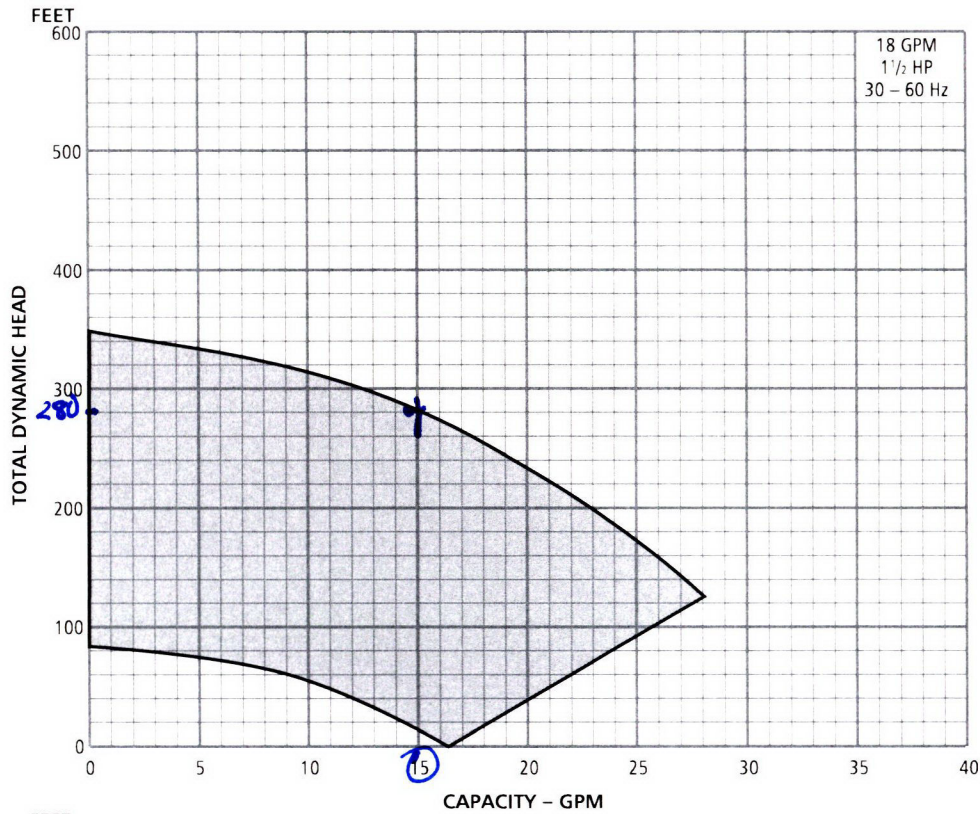
SCANNED

MAY 17 2023



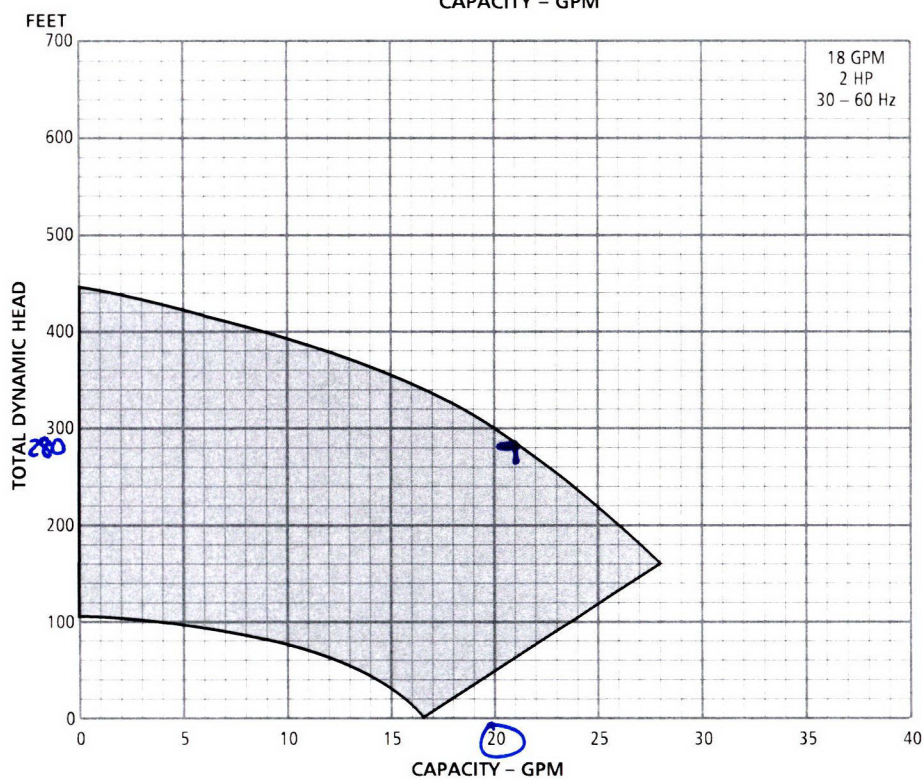
ITT

GOULDS PUMPS Residential Water Systems



BF20

1.5hp ~ 15gpm



2 hp ~ 20gpm



Balanced Flow Installation Guide

BFSETUP Revised 12/09

The Balanced Flow ® Controller is very versatile, it can be set-up for:

- Constant Pressure using matched Water Ends and Motors - 60 Hertz Setting
- Constant Pressure using mis-matched Water Ends and Motors - 80 Hertz
- Float control using a float switch to fill a pond or tank.

There are a few variations available within these three systems, please read the complete IOM for more detailed information.

Installer Connections and Adjustments- are all made on the User Interface Board (UIB) and the Wire Terminals at the bottom of the controller.

Wiring:

- Connect the incoming power and ground to L1, L2 and GND on the bottom left side.
- Connect the color coded motor leads to R, Y, B and GND on the bottom right.

Transducer:

- Install the transducer in a vertical or horizontal position near the tank.
- Connect the transducer cable to the transducer
- Connect the supplied ground clamp to the hex on the transducer and connect the ground wire to the clamp.

UIB Settings:

- 60 or 80 - select based on pump/motor used -
 - 60 is for matched units, e. 2 HP Pump & 2 HP Motor
 - 80 is for mis-matched units, ex. 1 HP Pump & 2 HP motor

Dry Well Sensitivity:

Selections are High or Low. This function protects the system from running dry. The selection depends on several conditions and pump size, as a general rule:

- High - Default Setting - use for standard flow operating range
- Low - use for lower flow applications where the pump is typically operating at less than 70% of BEP (best efficiency GPM).

To test sensitivity run pump at minimum flow, if a dry Well Fault is triggered switch to Low setting. Restart times in minutes are: 1, 10, 20, 30, 60... repeats every 60 min. thereafter. Ex. 1st fault shuts down for 1 min, next fault resets after 10 min, then 20, etc.

Broken Pipe Protection:

- ON Position - Used for constant pressure systems. The drive will turn off if the system pressure drops 20 PSI below the system set point pressure for a minimum of 30 seconds. *This fault must be manually reset, it will not clear automatically..*
- OFF Position - Use for open discharge systems, such as filling a pond or tank, or whenever the system pressure will be 20 psi or more below the system set point pressure

Pressure Drop Setting - 5 PSI or 20 PSI:

The pressure drop before the drive restarts can be adjusted from the standard 5 PSI pressure drop to an alternative 20 PSI drop.

- 5 PSI - use for typical constant pressure systems.
- 20 PSI - use for irrigation systems with leaks, irrigation systems that drain on shut down and systems using large pressure tanks.

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MAY 17 2023



BENEFICIAL USE FIELD EXAMINATION DATE 5/24/2022



POD – GROUNDWATER WELL

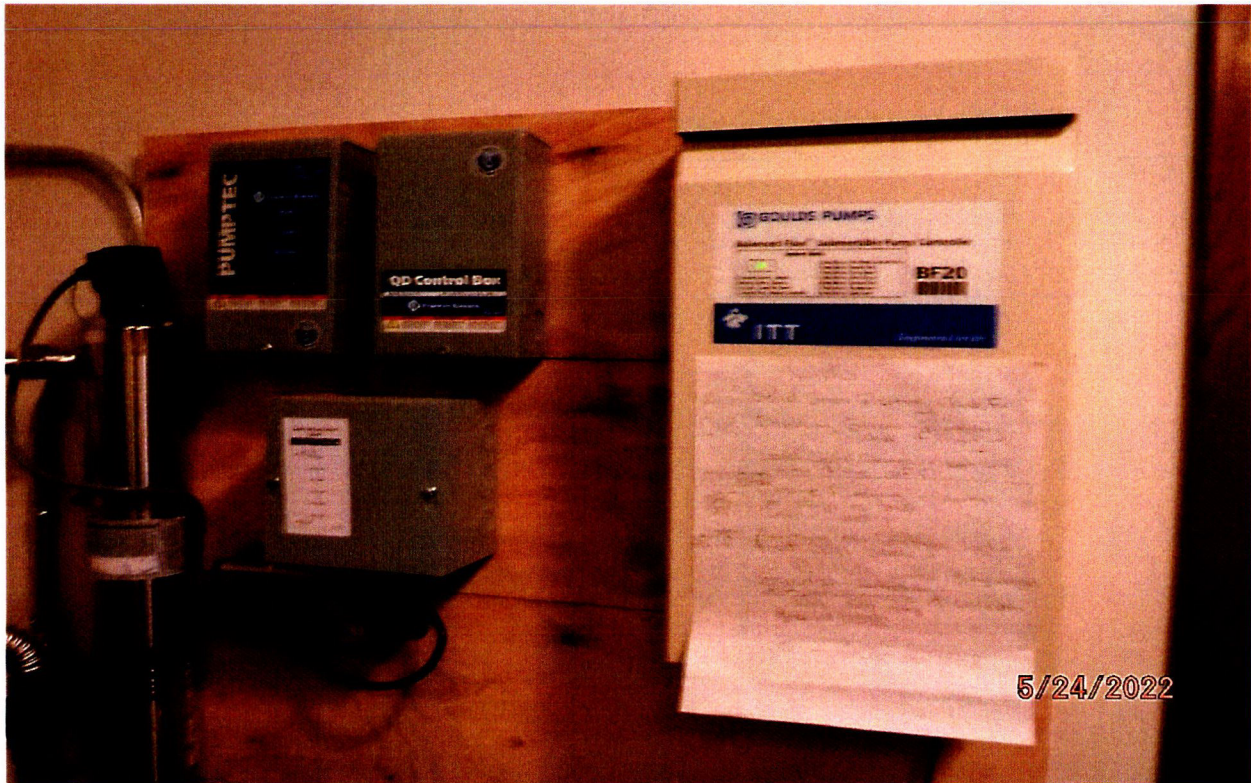
SCANNED
MAY 17 2023



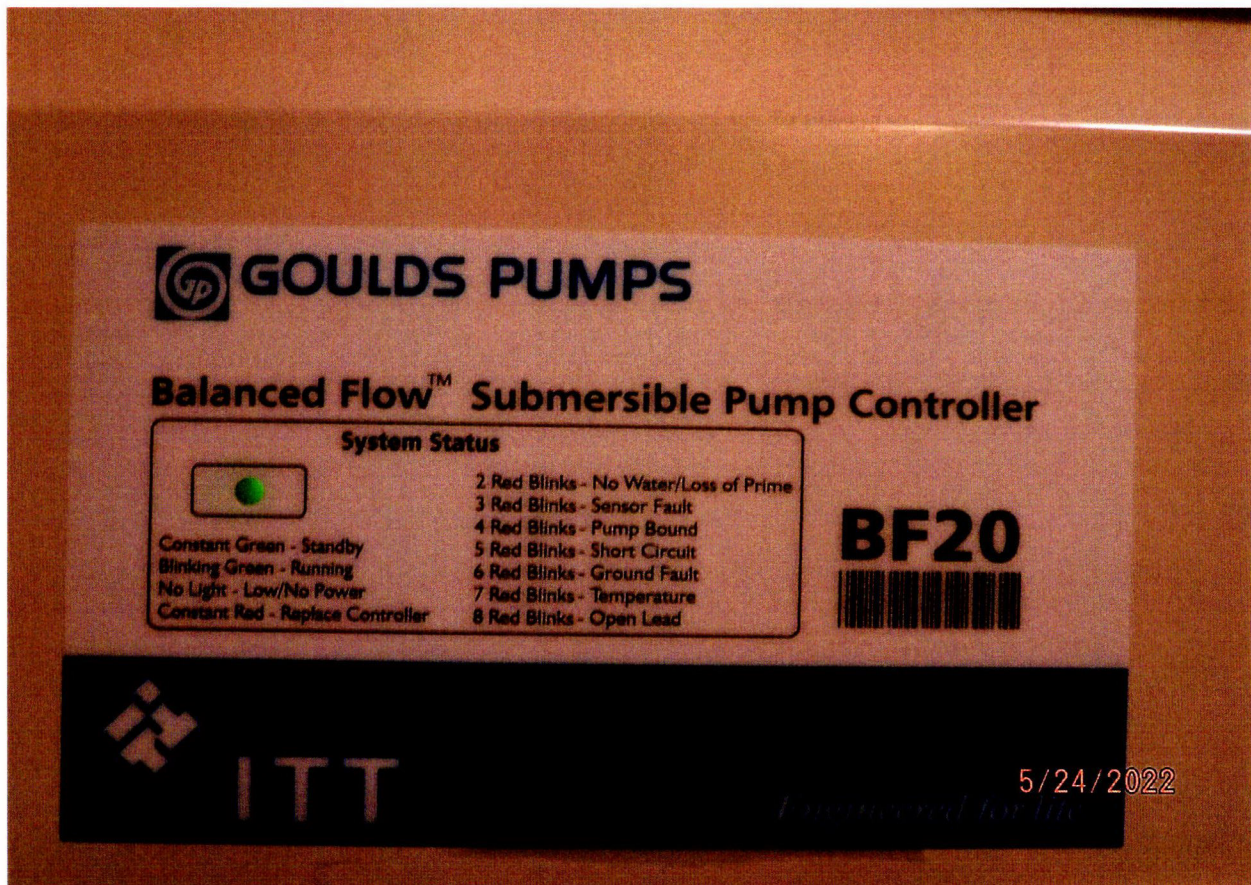
GROUNDWATER WELL D-TAG D0028264



WATER FROM WELL DIVERTS DIRECTLY TO 2EA 3,000 GAL STORAGE TANKS BEFORE USE



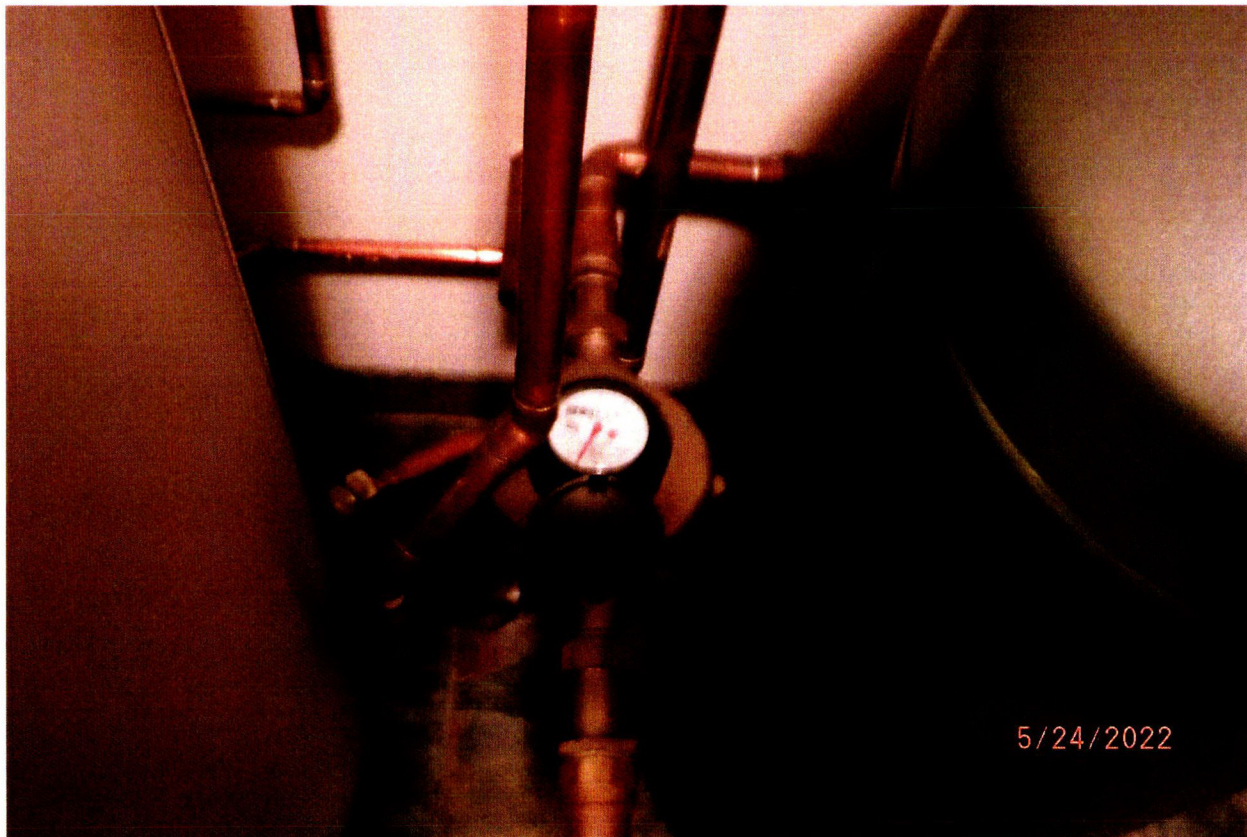
WATER SYSTEM CONTROL PANEL(S)



GOULDS VARIABLE FREQ DRIVE PUMP MOTOR INSTALLED (BF20)



1 HP FRANKLIN PUMP MOTOR (2EA) INSTALLED IN STORAGE TANKS



VOLUME TOTALIZER FLOWMETER INSTALLED ON WATER SYSTEM



DOMESTIC POU



UP TO ½ ACRE IRRIGATION OCCURING UNDER DOMESTIC USE



½ IRRIGATION COVERED UNDER DOMESTIC USE



STOCKWATER POU – CHICKEN COUP BUILDING