

MEMORANDUM

TO: Water Right File 63-33364

FROM: Daniel Nelson – Analyst 3

DATE: June 25, 2020

SUBJECT: Licensing Review of Water Right 63-33364

The field exam for this right was performed by Certified Water Right Examiner Scott King of SPF Water Engineering. Mr. King recommended 0.20 cfs and 24 af for commercial use and 0.20 cfs and 30.5 af for stockwater use for a total of 0.20 cfs and 54.5 af.

After review of the field report data supplied by Mr. King, I contacted Mr. King on June 4, 2020, due to some confusion over the wash pen use and the total dynamic head used to determine the flow rate. On June 17, 2020, Mr. King responded and confirmed there was no wash pen being used for this dairy. Mr. King then revised his commercial volume to 17.5 af. Mr. King also supplied the total dynamic head for the two well pumps.

History and Overlap:

This permit is diverted from the same well as water right 63-31140, and an additional well that was added to the system per this permit. Water right 63-31140 is a decreed water right for domestic and stockwater purposes, and has a condition that limits the use of this water right to 13,000 gallons per day. Water right 63-31140 does not provide any information on the number of stock or type of stock associated with this decree. Since there is no way to tell how much water from 63-31140 is useable in the dairy, there will need to be a combined limitation condition that when this permit and 63-31140 are combined. The combined limitations will be discussed in the volume section of this memo.

Point of Diversion Place of Use:

I don't have any issues with the points of diversion and places of use recommended by Mr. King. I did increase the southern border of the place of use in our GIS mapping to include the dairy lagoons. This way the dairy should be covered if there is any future issue.

Diversion Rate:

In the original field report, Mr. King didn't supply adequate documentation to allow verification of the flow rate calculations he performed. I contacted Mr. King and requested that he supply the Total Dynamic Head he used to calculate the flow from the wells. Mr. King did supply the information required to verify the estimated diversion rates.

Due to the close proximity of the wells, Mr. King used basically the same Total Dynamic Head for both wells. This is a common practice, but the well driller reports show two very different static water levels in the wells. However, the difference in the pumping water levels between the two wells is probably not more than 10 to 20 feet. The pumps used for this dairy have a relatively flat pump curve. The pump curve suggests that a Total Dynamic Head difference of 50 feet would only change the flow rate by approximately 10 gpm per pump. With only 10 to 20 feet of head difference between the two pumps, it is unlikely that Mr. King's estimate is off by more than 10%.

Since we are unsure how much of water right 63-31140 contributes to the dairy. I recommend that this permit be licensed for the 0.20 cfs recommended by Mr. King, and when this permit and 63-31140 are combined, they should be limited to a total of 0.20 cfs. By using a combined limitation condition, it would allow the commercial use authorized by this permit that is not authorized on 63-31140 to use the full diversion rate of 0.20 cfs if needed.

Diversion Volume:

After Mr. King submitted his updated dairy requirement sheet on June 17, 2020, I feel the volumes calculated in the updated dairy requirement sheet to be reasonable. In order to provide more flexibility of the water use, I am recommending that the dairy use and the commercial use should each be licensed for 48 af, and a total water use for the water right should be limited to 48 af. This will allow the permit holder to adjust the number of cows and the commercial use to remain in compliance with the proposed license.

As stated above, it is impossible to determine how much 63-31140 supplies to the stockwater use for this dairy and how much it supplies to the domestic use on an annual basis. Mr. King's dairy use sheet includes all of the stockwater use, and domestic uses are generally licensed for a total volume of 1.2 af per Administrative Processing Memorandum #22. I feel it is prudent to address the total dairy use plus the standard volume for domestic use in a combined condition to avoid any unintentional limitations on water right 63-31140.

Therefore I recommend that when water rights 63-31140 and 63-33364 are combined they are limited to 49.2 af (1.2 af domestic use + 48 af for total stockwater and dairy use for the dairy = 49.2 af). By limiting the total volume to 49.2 af, this permit would not limit the use of decreed water right 63-31140, which would still be able to divert up to 13,000 gallons per day. If 63-33364 is curtailed, then the permit holder would still be able to divert the full 0.14 cfs and 13,000 gallons per day authorized by 63-31140. Adding the additional domestic standard of 1.2 af for the domestic use to the total dairy use in the combined limitation will prevent limiting the domestic portion of right 63-31140.

Conditions:

Conditions 01M and the commercial use descriptive condition will be carried forward to licensing. Condition 121 will be changed to 103 per standards. The remaining conditions will be removed. Condition X35 will be added to limit the use of water when rights 63-31140 and 63-33364 are combined to 0.20 cfs and 49.2 af. This would not limit the domestic and stockwater use of 0.14 cfs and 13,000 gallon per day authorized by decreed water right 63-31140.

Nelson, Dan

From: Scott King <SKing@spfwater.com>
Sent: Wednesday, June 17, 2020 1:54 PM
To: Nelson, Dan
Subject: RE: Permit 63-3364 - field report review
Attachments: DAIRY REQUIREMENT SHEET FOR BUFE Rev1.pdf

Hi Dan,

Mr. Huttema confirmed two items.

The facility does not have or use a wash pen. Attached is an updated Dairy Fresh Water Requirements spreadsheet. Recommended commercial use annual volume changes from 24.0 to 17.5 afa.

The well pump discharge pressure at peak demands is 30 psi (69 feet). With a pump set at 100 feet, we should expect some submergence over the bowls, so a pumping water level of 80 is reasonable and 90 feet would be getting a bit close to the pump intake. Using 90 feet of pumping lift, 10 feet of estimated friction loss, and 69 feet for discharge pressure is 169 feet. This matches the curve at 45 gpm.

I looked at specific capacity from the 2002 well driller's report using static water level, pumping water level, and flow. The problem with air lifting is that the reported pumping level is usually the depth of the drill stem blowing compressed air and the actual pumping level can be quite a bit less than what is reported and what would be experienced with an actual pump.

I hope this helps. Please let me know if you have any other questions.

Thanks,
Scott

From: Nelson, Dan <Dan.Nelson@idwr.idaho.gov>
Sent: Thursday, June 4, 2020 9:40 AM
To: Scott King <SKing@spfwater.com>
Subject: Permit 63-3364 - field report review

Hello Scott,

I am reviewing the field report for permit 63-33364 for Allan and Mary Jo Huttema. I have some questions that I will need to have clarified before I can move forward with processing this field exam. I will list them below:

- 1.) The field report states that they are using a wash pen. I have worked with several dairies over the last year, and they have all told me that wash pens are no longer used in dairies, because they introduce bacteria into the milk and the animals utter. This is the first dairy that I have seen a was pen being used in several years. Do you have any pictures to confirm this use?
- 2.) In the field report, you referred to the pump curve, but you didn't give the Total Dynamic Head (TDH) of the system. The well driller report for the 1989 well shows a static water level of 73 feet and a drawdown of 126 feet at a pumping rate of 15 gpm over a 2 hour time frame. The well driller report for the 2002 well shows a static water level of 55 feet and a drawdown of 214 feet at a pumping rate of 100 gpm over a 2 hour period. Your photos show a sticker that says the pump is set at a depth of 100 feet. There is no information that shows what the pressure is for this system.

Using the pump curve you supplied, the 3 Hp pump can produce 45 gpm at a TDH of 170 feet. Using the static of the 73 feet for the 1989 well, the pressure supplied would be slightly less than 42 psi. Using the pumping water level of 126 feet for the 1989 well, the pressure would be close to 19 psi. Using the static of the 2002 well of 55 feet, the pressure supplied would slightly less than 50 psi. Using the pumping water level of 214 feet of the 2002 well, you couldn't pump any water. If you use 10 feet above the location where the pump is set according to your pictures or 90 feet pumping water level, the pumps could provide approximately 30 psi. As you know, most of these types of systems have a pressure control switch that regulates the pressure between 40 and 60 psi.

Without knowing the TDH for each of these pump systems under normal operating conditions, we cannot determine the flow rate for this system using the pump curve. The well driller reports suggest that these wells have very different pumping water levels, so we can't assume each pump operates at the same flow rate. The rated pump flow under ideal conditions cannot be used as a determination of flow rate for any system. Therefore, could you please supply the system pressure and the TDH for each of the wells to ensure a reasonable diversion rate is be recommended?

Once I receive clarification of the above two issues, I can move forward with the licensing process for this permit. Consider this an official request for clarification of the field report as discussed in IDAP Beneficial Use Examination Rules 37.03.02.035.02.c as is shown below:

If the Director determines that a field report prepared by a certified water right examiner is acceptable but that additional information is needed to clarify the field report, he will notify the examiner in writing of the information required. If the additional information is not submitted within thirty (30) days or within the time specified in the written notice, the priority date of the permit will be advanced one (1) day for each day the information submittal is late. Failure to submit the required information within one (1) year of the date of the department's request is cause for the Director to take action to cancel the permit.

Thank you for time and effort Scott, and if you have any questions, please don't hesitate to contact me.

Respectfully,

Daniel Nelson
Water Right Analyst 3
Idaho Department of Water Resources
Telephone (208) 287-4856
Fax (208) 287-6700 (attn: Dan Nelson)

DAILY FRESH WATER REQUIREMENT FOR DAIRY FACILITY

FOR: 63-33364, Allan Hutterna
BY: Scott King, SPF Water Engineering, LLC
DATE: 6/17/2020

STOCKWATER REQUIREMENT

TYPE OF ANIMAL	NUMBER	USE/DAY	TOTAL GAL/DAY	TOTAL GAL/YEAR
MILKING COWS	750.00	35.00	26,250.00	9,581,250.00
DRY COWS & HEIFERS	70.00	14.00	980.00	357,700.00
TOTAL GALLONS			27,230.00	9,938,950.00

COMMERCIAL REQUIREMENT

WASH PEN ESTIMATE

GPM PER NOZZLE	NUMBER OF NOZZLES	TIME PER USE (IN MINUTES)	NUMBER OF USES	TOTAL GAL/DAY	TOAL GAL/YEAR
5.00	0.00	1.00	20.00	0.00	0.00

MILKING PARLOR ESTIMATES

ITEM	GALS/OP	X'S/DAY	GALS/DAY	GALS/YEAR
BULK TANK	116.00	2.00	232.00	84,680.00
COW PREP	0.25	1,500.00	375.00	136,875.00
PIPELINES	60.00	2.00	120.00	43,800.00
PARLOR CLEANUP	400.00	2.00	800.00	292,000.00
WASHPEN CLEANUP	400.00	0.00	0.00	0.00
TOTAL MILK PARLOR USE		2.00	1,527.00	557,355.00

MISCELLANEOUS USES

ITEM	GALS/OP	X'S/DAY	GALS/DAY	GALS/YEAR
TOWEL WASHING	50.00	4.00	200.00	73,000.00
MISC MAINTENANCE	1,000.00	1.00	1,000.00	165,000.00
RESTROOM	50.00	10.00	500.00	182,500.00
DUST CONTROL	50.00	8.00	400.00	146,000.00
FEED PREP	1,880.00	1.00	1,880.00	686,200.00
TOTAL MISCELLANEOUS USES			3,580.00	1,106,700.00

MISTERS

SPRINKLERS PER 5 COWS	NUMBER OF COWS	RATE PER SPRINKLER, IN GPM	HOURS USED PER DAY	DAYS USED PER YEAR	GALS PER DAY	GALS/YR
1	750	0.50	10.00	90.00	45000	4,050,000.00

FLOW RATE

	TOTAL RATE PER DAY (GALS/ DAY)	TOTAL RATE OVER 24 HOURS (CFS)	TOTAL RATE OVER 14 HOURS (CFS)
STOCKWATER	27,230.00	0.04	0.07
COMMERCIAL	50,107.00	0.08	0.13
TOTAL	77,337.00	0.12	0.21

ANNUAL VOLUME (AFY)	
STOCKWATER	30.50
COMMERCIAL	17.54
TOTAL	48.0

MAY 26 2020

DEPARTMENT OF
WATER RESOURCES

May 21, 2020

Idaho Department of Water Resources
PO Box 83720
Boise, ID 83720-0098

Attn: Darla Block & Dan Nelson

*Subject: Allan and Mary Jo Huttema
Permit No. 63-33364
Proof of Beneficial Use & Beneficial Use Field Report*

Dear Darla & Dan,

Enclosed on behalf of Allan and Mary Jo Huttema is a completed Beneficial Use Field Report for the above-referenced permit and signed Statement of Completion. If you would like digital shapefiles of the point of diversion or place of use, please let Lori Graves or me know and we will forward them to you.

Please let me know if you have any questions regarding these documents.

Sincerely,

A handwritten signature in blue ink that reads "Scott N. King". The signature is fluid and cursive, with the first name "Scott" and last name "King" clearly distinguishable.

Scott N. King, P.E.
Supervising Engineer
CWRE No. 133

Enclosures

cc: Allan and Mary Jo Huttema (letter only)

File: 869.0010

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A Beneficial Use Field Report is prepared by a water right examiner as the result of an examination to clearly confirm and establish the extent of the beneficial use of water established in connection with a permit during the development period authorized by the permit and any extensions of time previously approved.

A. GENERAL INFORMATIONPermit No. 63-333641. Owner Allan and Mary Jo HuttemaPhone No. 360-815-1057Current address 1255 Grandview Ave., Parma, ID 836602. Examiner's name Scott King, P.E. (Examiner No. 133)EXAM DATE 4/30/20203. Accompanied by Allan HuttimaEmail ahuttima@aol.com

Address _____

Relationship to permit holder _____

Phone No. _____

4. Source Ground Water

tributary to _____

B. OVERLAP REVIEW1. Other water rights with the same place of use 63-311402. Other water rights with the same source and point of diversion 63-31140**C. DIVERSION AND DELIVERY SYSTEM****1. Point(s) of Diversion:**

Ident. No.	Gov't Lot	¼	¼	¼	Sec	Twp	Rge	County	Method of Determination/Remarks
1989			NW	NE	21	6N	5W	Payette	Exam, 2019 Photo, GPS (back-up)
2002			NW	NE	21	6N	5W	Payette	Exam, 2019 Photo, GPS (primary)

2. Place(s) of Use:

Method of determination _____

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
6N	5W	21		C															
				S															

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe diameter (inside), as applicable. Use the space provided or ☐ see attached.

Scale: 1" = _____

- ☒ Copy of USGS Quadrangle attached showing location(s) of point(s) of diversion and place(s) of use (**required**)
☒ Aerial photo attached (required for irrigation of 10+ acres)
☒ Photo of diversion and system attached

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
1989					
2002	Franklin Electric	3	17E221000242H	Franklin Electric	4-inch

*Code to correspond with no. on map and aerial photo

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements: _____

See Narrative. _____

E. NARRATIVE/REMARKS/COMMENTS

Two wells provide water for a dairy operation near Parma. The dairy has a double-12 milking barn producing 68,000 pounds per day of milk. The operation has 750 milking cows and 70 dry heifers. The primary dairy well (2002) serves the milking barn, 17 stock watering troughs, and associated uses. The 8,000-gallon tank provides storage to meet peaking demands. The tank is typically filled with the primary well, but may also be filled with the back-up (house) well during times of peak demand or if the primary well is out of service. The back-up well (1989) serves the house (domestic use), the feed mix operation, and is a back-up source for the dairy. The "Bill Hager" well driller's report attached may be associated with the 1989 well, although this has not been confirmed. The "Dale Nixon" well driller's report (2002) is for the primary well; Dale Nixon was the previous dairy owner.

The mechanical piping was not conducive to installation of the GE Panametrics flowmeter and thus a flow measurement wasn't possible. The dairy well is equipped with a Franklin 3-HP, 11-stage model 45FA3S4-PE submersible well pump rated at 45 gpm with binary (on/off) operation. The owner states the back-up (house) well is equipped with same pump on a variable speed drive. Diversion rate during peak demands with both pumps operating is 90 gpm (0.20 cfs). This is less than the 1.0 cfs permitted diversion rate.

Stockwater and commercial volume calculations are attached.

This right when combined with 63-31140 should be limited to a combined diversion rate of 0.20 cfs.

Has the permit holder met all conditions of permit approval, including any mitigation requirements and/or measuring device installation requirements? ☒ Yes ☐ No If no, what must be done to meet the permit requirements?

F. FLOW CALCULATIONS☐ Additional computation sheets attached

Measured Method:

Discharge based on pump curves with rated discharge of 45 gpm for each pump for a total of 90 gpm (0.20 cfs)

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

 $V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$ _____ $V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 =$ _____ $V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} =$ _____

2. Volume Calculations for Other Uses:

See Attached Dairy Requirements Worksheet for Stock and Commercial uses.

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion	Annual Volume
	From	To	Q (cfs)	V (afa)
Commercial	1/1	12/31	0.20 cfs	24.0 afa
Stockwater	1/1	12/31	0.20 cfs	30.5 afa
Totals:			0.20 cfs	54.5

2. Recommended Amendments

☐ Change P.D. as reflected on page 1☐ Add P.D. as reflected on page 1☒ None☐ Change P.U. as reflected on page 1☐ Add P.U. as reflected on page 1☐ Other**I. AUTHENTICATION**

Field Examiner's Signature



Date 5/21/2020

Reviewer _____

Date _____



ATTACHMENT A
PERMIT RECORD AND PROOF OF BENEFICIAL USE

Close

IDAHO DEPARTMENT OF WATER RESOURCES
Water Permit Report

7/6/2016

WATER RIGHT NO. 63-33364

<u>Owner Type</u>	<u>Name and Address</u>
Current Owner	NORTHWEST FARM CREDIT SERVICES FLCA 16034 EQUINE DR NAMPA, ID 83687 (208) 468-1600
Current Owner	ALLAN HUTTEMA
Current Owner	MARY JO HUTTEMA 1255 GRANDVIEW AVE PARMA, ID 83660 360-815-1057
Representative	SPF WATER ENGINEERING LLC C/O LORI GRAVES 300 E MALLARD DR STE 350 BOISE, ID 83706 (208)383-4140
Original Owner	DALE NIXON 6839 WHITLEY DR FRUITLAND, ID 83619-3656 (208)722-9057
Original Owner	PAMELA G NIXON 6839 WHITLEY DR FRUITLAND, ID 83619-3656 (208)722-9057

Priority Date: 11/06/2009

Status: Active

<u>Source</u>	<u>Tributary</u>
GROUND WATER	

<u>Beneficial Use</u>	<u>From</u>	<u>To</u>	<u>Diversion Rate</u>	<u>Volume</u>
STOCKWATER	01/01	12/31	1 CFS	
COMMERCIAL	01/01	12/31	1 CFS	

Total Diversion | | | 1 CFS |

Location of Point(s) of Diversion:

GROUND WATER|NWNE|Sec. 21|Township 06N|Range 05W|PAYETTE County
GROUND WATER|NWNE|Sec. 21|Township 06N|Range 05W|PAYETTE County

STOCKWATER Use:
Number of stock: 800

COMMERCIAL Use:
Number of other uses: dairy

Place(s) of use:

Place of Use Legal Description: STOCKWATER PAYETTE County

<u>Township</u>	<u>Range</u>	<u>Section</u>	<u>Lot</u>	<u>Tract</u>	<u>Acres</u>	<u>Lot</u>	<u>Tract</u>	<u>Acres</u>	<u>Lot</u>	<u>Tract</u>	<u>Acres</u>	<u>Lot</u>	<u>Tract</u>	<u>Acres</u>
06N	05W	21		NWNE										

Place of Use Legal Description: COMMERCIAL PAYETTE County

<u>Township</u>	<u>Range</u>	<u>Section</u>	<u>Lot</u>	<u>Tract</u>	<u>Acres</u>	<u>Lot</u>	<u>Tract</u>	<u>Acres</u>	<u>Lot</u>	<u>Tract</u>	<u>Acres</u>	<u>Lot</u>	<u>Tract</u>	<u>Acres</u>
06N	05W	21		NWNE										

Conditions of Approval:

- 1.004 This right does not grant any right-of-way or easement across the land of another.
- 2.26A Project construction shall commence within one year from the date of permit issuance and shall proceed diligently to completion unless it can be shown to the satisfaction of the Director of the Department of Water Resources that delays were due to circumstances over which the permit holder had no control.
- 3.01M After specific notification by the Department, the right holder shall install a suitable measuring device or shall enter into an agreement with the Department to use power records to determine the amount of water diverted and shall annually report the information to the Department.
- 4.106 Prior to the diversion and use of water under this approval, the right holder shall comply with applicable water quality permitting requirements administered by the Department of Environmental Quality or the Department of Agriculture.
- 5.082 Prior to the diversion and use of water under this approval, the right holder shall comply with applicable county zoning and use ordinances.
- 6.X02 Stockwater use is for 400 replacement stock/heifers and 800 dairy cows.
7. Commercial use is for a dairy.
The Director retains jurisdiction to require the right holder to provide purchased or leased natural flow

8. 121 or stored water to offset depletion of Lower Snake River flows if needed for salmon migration purposes. The amount of water required to be released into the Snake River or a tributary, if needed for this purpose, will be determined by the Director based upon the reduction in flow caused by the use of water pursuant to this permit.

Dates:

Proof Due Date: 06/01/2020

Proof Made Date:

Approved Date: 06/02/2010

Moratorium Expiration Date:

Enlargement Use Priority Date:

Enlargement Statute Priority Date:

Application Received Date: 11/06/2009

Protest Deadline Date: 05/24/2010

Number of Protests: 0

Field Exam Date::

Date Sent to State Off:

Date Received at State Off:

Other Information:

State or Federal:

Owner Name Connector: AND

Water District Number:

Generic Max Rate per Acre:

Generic Max Volume per Acre:

Swan Falls Trust or Nontrust:

Swan Falls Dismissed:

DLE Act Number:

Cary Act Number:

Mitigation Plan: False

Close

0689

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
STATEMENT OF COMPLETION
FOR SUBMITTING PROOF OF BENEFICIAL USE

FOR OFFICE USE ONLY	
Amt. of Fee \$	_____
Receipt No.	_____
Received By	_____
Date Received	_____

The Idaho Department of Water Resources considers this form a statement by the permit holder(s) that development of a water right has been **completed** and that water has been applied to beneficial use to the extent described below. **This form must be accompanied by an examination fee, when necessary, or by a completed Beneficial Use Field Report prepared by a certified water right examiner.** Please refer to the instructions and fee schedule for this form. If ownership of the permit has changed, contact any Department office or visit the Department's website at idwr.idaho.gov for an *Assignment of Permit* form. If you wish to relinquish your permit because you have not established the authorized use of the water and are not applying for an extension, please notify the Department in writing.

- Permit No. 63-33364 Telephone No. 360-815-1057
 - Name of Permit Holder(s) Allan Huttema
 - Mailing Address 1255 Grandview Ave City Parma
State ID Zip 83660 Email ahuttema@aol.com
 - Source of Water Ground Water If **GROUND WATER** (well), Date Drilled mo. _____ / yr. _____
Well Driller _____ Drilling Permit Number _____
 - Extent of use(s) completed **as authorized by the water right permit:**
Domestic (No. of households) _____ Stockwater (No. and type of stock) 800 cows, 400 replacements
Irrigation (No. of acres) _____ Other commercial use
 - Total rate of diversion or storage volume for which proof is submitted 1.0 cfs OR _____ acre-feet.
 - Compliance with a measuring device requirement, lockable controlling device requirement, and/or other conditions of permit:
Refer to the approval conditions on your permit and respond accordingly.
The Department will not issue a license if permit conditions are not met.

Measuring Device	Is a measuring device required?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
	If yes, has the measuring device been installed?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Lockable Controlling Device	Is a lockable device required to control the diversion?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
	If yes, has the lockable device been installed?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Fish Screen	Is a fish screen required?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
	If yes, has the fish screen been installed?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
- Other Conditions of Permit**
Do the approval conditions on your permit require you to submit additional information in connection with your proof of beneficial use? If yes, list the conditions below and attach documents with the required information.
County zoning and use ordinances compliance Completed? Yes ☒ No ☐
- Fee Enclosed \$ _____ or not applicable ☐. See fee schedule on page 2 of the instructions.
Proof statements filed without an appropriate fee, will be considered incomplete.
 - Person to contact to accompany the Department representative during field examination of the water system.
Name n/a - SPF completing exam Telephone Number _____
Mailing Address _____ City _____
State _____ Zip _____ Email _____

The information given on this form is my true statement of the extent to which the above numbered permit has been developed and water has been diverted and applied to a beneficial use. I understand that any undeveloped portion of the permit is relinquished to the State of Idaho.

Signature of Permit Holder _____ Date April 30 2020
(Include your title, if on behalf of company or organization)

Mail to: Idaho Department of Water Resources, PO Box 83720, Boise, ID 83720-0098

ATTACHMENT B

WELL DRILLERS' REPORTS AND PUMP CURVES

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Office Use Only
Inspected by _____
Twp _____ Rge _____ Sec _____
1/4 _____ 1/4 _____ 1/4 _____
Lat _____ Long _____
☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

1. WELL TAG NO. D 002593C
DRILLING PERMIT NO. _____
Other IDWR No. _____

2. OWNER:
Name Dale Nixon
Address 1255 Grandview RD
City Parma State Id Zip 83660

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

N
W
E
S
Twp. 6 North ☒ or South ☐
Rge. 5 East ☐ or West ☒
Sec. 21 SW 1/4 NE 1/4 NE 1/4
Gov't Lot _____ County _____
Lat: _____ Long: _____
Address of Well Site Same as above
City _____
(Give at least name of road + Distance to Road or Landmark)

Lt. _____ Blk. _____ Sub. Name _____

4. USE:

☒ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other _____

5. TYPE OF WORK check all that apply (Replacement etc.)

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD

☐ Air Rotary ☒ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER	PACK	AMOUNT	METHOD
Material	From	To	Sacks or Pounds
Bentonite	0	20	14 Sacks Overhaul

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) _____
Was drive shoe seal tested? ☐ Y ☒ N How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6	+2	201.7	1/4	Steel	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Length of Headpipe 5' Length of Tailpipe 3'

9. PERFORATIONS/SCREENS

Perforations _____ Method _____
Screens _____ Screen Type Johnson

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
203	212	.20		5"	Stainless	<input type="checkbox"/>	<input type="checkbox"/>

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

55 ft. below ground Artesian pressure _____ lb.
Depth flow encountered _____ ft. Describe access port or control devices: _____

11. WELL TESTS:

☐ Pump ☐ Bailer

Yield gal/min	Drawdown	Pumping Level	Time
100	NA	214	2 hours

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encounter 55

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
6	0	3	Top soil		X
6	3	7	Hard Pan		X
6	7	8	clay		X
6	8	22	gravel		X
6	22	48	Bkn sandy clay	X	
6	48	65	Sand & clay streaks		X
6	65	86	Bkn clay		X
6	86	88	Fine sand	X	
6	88	120	Sandy Bkn clay		X
6	120	130	Fine sand clay streaks	X	
6	130	146	Bkn clay sand streaks	X	
6	146	154	Fine sand	X	
6	154	165	Bkn clay		X
6	165	178	Fine sand	X	
6	178	191	Blue clay		X
6	191	198	Sand media course	X	
6	198	198	Blue clay		X
6	198	201	Course sand and gravel	X	
5	201	212	Course sand and gravel	X	
5	212		Blue clay		X

RECEIVED

DEC 26 2002

Department of Water Resources

Completed _____ Depth 216 (Measurable)
Date: Started 10-15-02 Completed 11-18-02

13. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name McLaran Well Drilling Firm No. 641

Firm Official David McLaran Date 11-18-02

and
Driller or Operator Same Date _____
(Sign once if Firm Official & Operator)

State law requires that this report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well.

<p>1. WELL OWNER</p> <p>Name <u>Bill Hager</u></p> <p>Address <u>1255 Grandview Rd</u> <u>Parma, ID 83660</u></p> <p>Owner's Permit No. <u>63-89-2-017</u></p>	<p>7. WATER LEVEL</p> <p>Static water level <u>73</u> feet below land surface.</p> <p>Flowing? <input type="checkbox"/> Yes <input type="checkbox"/> No G.P.M. flow _____</p> <p>Artesian closed-in pressure _____ p.s.i.</p> <p>Controlled by: <input type="checkbox"/> Valve <input type="checkbox"/> Cap <input type="checkbox"/> Plug</p> <p>Temperature _____ °F. Quality _____</p> <p><i>Describe artesian or temperature zones below.</i></p>																																																																
<p>2. NATURE OF WORK</p> <p><input checked="" type="checkbox"/> New well <input type="checkbox"/> Deepened <input type="checkbox"/> Replacement</p> <p><input type="checkbox"/> Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)</p>	<p>8. WELL TEST DATA</p> <p><input type="checkbox"/> Pump <input checked="" type="checkbox"/> Bailer <input type="checkbox"/> Air <input type="checkbox"/> Other _____</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Discharge G.P.M.</th> <th>Pumping Level</th> <th>Hours Pumped</th> </tr> <tr> <td style="text-align: center;">15</td> <td style="text-align: center;">124</td> <td style="text-align: center;">2</td> </tr> </table>	Discharge G.P.M.	Pumping Level	Hours Pumped	15	124	2																																																										
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15	124	2																																																															
<p>3. PROPOSED USE</p> <p><input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Irrigation <input type="checkbox"/> Test <input type="checkbox"/> Municipal</p> <p><input type="checkbox"/> Industrial <input type="checkbox"/> Stock <input type="checkbox"/> Waste Disposal or Injection</p> <p><input type="checkbox"/> Other _____ (specify type)</p>	<p>9. LITHOLOGIC LOG 103641</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Bore Diam.</th> <th colspan="2">Depth</th> <th rowspan="2">Material</th> <th colspan="2">Water</th> </tr> <tr> <th>From</th> <th>To</th> <th>Yes</th> <th>No</th> </tr> </thead> <tbody> <tr> <td>6"</td> <td>0</td> <td>1</td> <td>Top Soil</td> <td></td> <td></td> </tr> <tr> <td>"</td> <td>1</td> <td>20</td> <td>Clay & Sand</td> <td></td> <td></td> </tr> <tr> <td>"</td> <td>20</td> <td>26</td> <td>Gravel</td> <td></td> <td></td> </tr> <tr> <td>"</td> <td>26</td> <td>40</td> <td>Clay & Sand</td> <td></td> <td></td> </tr> <tr> <td>"</td> <td>40</td> <td>76</td> <td>Sand</td> <td></td> <td></td> </tr> <tr> <td>"</td> <td>76</td> <td>81</td> <td>Gravel</td> <td></td> <td></td> </tr> <tr> <td>"</td> <td>81</td> <td>95</td> <td>Gravel</td> <td></td> <td></td> </tr> <tr> <td>"</td> <td>95</td> <td>135</td> <td>Brown Clay</td> <td></td> <td></td> </tr> <tr> <td>"</td> <td>135</td> <td>140</td> <td>Sand & Pea Gravel</td> <td></td> <td></td> </tr> </tbody> </table> <div style="text-align: center; margin-top: 20px;"> <p>RECEIVED</p> <p>JUN 21 1989</p> <p>Department of Water Resources</p> </div>	Bore Diam.	Depth		Material	Water		From	To	Yes	No	6"	0	1	Top Soil			"	1	20	Clay & Sand			"	20	26	Gravel			"	26	40	Clay & Sand			"	40	76	Sand			"	76	81	Gravel			"	81	95	Gravel			"	95	135	Brown Clay			"	135	140	Sand & Pea Gravel		
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<p>4. METHOD DRILLED</p> <p><input type="checkbox"/> Rotary <input type="checkbox"/> Air <input type="checkbox"/> Hydraulic <input type="checkbox"/> Reverse rotary</p> <p><input checked="" type="checkbox"/> Cable <input type="checkbox"/> Dug <input type="checkbox"/> Other _____</p>	<p>10.</p> <p>Work started <u>5-30-89</u> finished <u>6-12-89</u></p>																																																																
<p>5. WELL CONSTRUCTION</p> <p>Casing schedule: <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Concrete <input type="checkbox"/> Other _____</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Thickness</th> <th>Diameter</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td><u>.250</u> inches</td> <td><u>6</u> inches</td> <td><u>0</u> feet</td> <td><u>100</u> feet</td> </tr> <tr> <td>_____ inches</td> <td>_____ inches</td> <td>_____ feet</td> <td>_____ feet</td> </tr> <tr> <td>_____ inches</td> <td>_____ inches</td> <td>_____ feet</td> <td>_____ feet</td> </tr> <tr> <td>_____ inches</td> <td>_____ inches</td> <td>_____ feet</td> <td>_____ feet</td> </tr> </tbody> </table> <p>Was casing drive shoe used? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Was a packer or seal used? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Perforated? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>How perforated? <input type="checkbox"/> Factory <input type="checkbox"/> Knife <input type="checkbox"/> Torch</p> <p>Size of perforation _____ inches by _____ inches</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Number</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>_____ perforations</td> <td>_____ feet</td> <td>_____ feet</td> </tr> <tr> <td>_____ perforations</td> <td>_____ feet</td> <td>_____ feet</td> </tr> <tr> <td>_____ perforations</td> <td>_____ feet</td> <td>_____ feet</td> </tr> </tbody> </table> <p>Well screen installed? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Manufacturer's name _____</p> <p>Type _____ Model No. _____</p> <p>Diameter _____ Slot size _____ Set from _____ feet to _____ feet</p> <p>Diameter _____ Slot size _____ Set from _____ feet to _____ feet</p> <p>Gravel packed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Size of gravel _____</p> <p>Placed from _____ feet to _____ feet</p> <p>Surface seal depth _____ Material used in seal: <input type="checkbox"/> Cement grout</p> <p><input type="checkbox"/> Bentonite <input type="checkbox"/> Puddling clay <input type="checkbox"/> _____</p> <p>Sealing procedure used: <input checked="" type="checkbox"/> Slurry pit <input type="checkbox"/> Temp. surface casing</p> <p><input type="checkbox"/> Overbore to seal depth</p> <p>Method of joining casing: <input type="checkbox"/> Threaded <input type="checkbox"/> Welded <input type="checkbox"/> Solvent</p> <p><input type="checkbox"/> Weld</p> <p><input type="checkbox"/> Cemented between strata</p> <p>Describe access port <u>Sanitary Well Seal</u></p>	Thickness	Diameter	From	To	<u>.250</u> inches	<u>6</u> inches	<u>0</u> feet	<u>100</u> feet	_____ inches	_____ inches	_____ feet	_____ feet	_____ inches	_____ inches	_____ feet	_____ feet	_____ inches	_____ inches	_____ feet	_____ feet	Number	From	To	_____ perforations	_____ feet	_____ feet	_____ perforations	_____ feet	_____ feet	_____ perforations	_____ feet	_____ feet	<p>11. DRILLERS CERTIFICATION</p> <p>I/We certify that all minimum well construction standards were complied with at the time the rig was removed.</p> <p>Firm Name <u>Riverside Drilling</u> Firm No. <u>333</u></p> <p>PO Box <u>700</u></p> <p>Address <u>Parma, ID 83660</u> Date <u>6-16-89</u></p> <p>Signed by (Firm Official) <u>Riverside Drilling</u></p> <p>and</p> <p>(Operator) <u>Riverside Drilling</u></p>																																
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<p>6. LOCATION OF WELL</p> <p>Sketch map location <u>must</u> agree with written location.</p> <div style="text-align: center;"> </div> <p>Subdivision <u>UNION MED</u></p> <p>JUN 21 1991</p> <p>Lot No. _____ Block No. _____</p> <p>County <u>Payette</u></p> <p><u>NE 1/4 NE 1/4 Sec. 21, T. 6 N, R. 5 EW</u></p>																																																																	

USE ADDITIONAL SHEETS IF NECESSARY. FORWARD THE WHITE COPY TO THE DEPARTMENT

Home » Water/Well Equipment » 4" (1" & 1.31" GPM) & 10" Submersible Pump Ends » Four-Inch Pump Ends » 45 GPM » Franklin Electric 4" High Capacity 45FA3S4-PE Submersible Well Pump End Only 45 GPM 3.0 HP



Franklin Electric 4" High Capacity 45FA3S4-PE Submersible Well Pump End Only 45 GPM 3.0 HP

\$1,148.40

QUANTITY: 1

Add to Cart

Usually ships within 1 week
SKU: F5C26140 LL

Product Overview

Warranty:

No warranty

Location price

Free Shipping

Learn More

Shipping Weight:

15.0 LBS

Shipping Dimensions:

Length: 5 in

Width: 3 in

Height: 52.15 in



Description

Specifications

Resources

Warranty

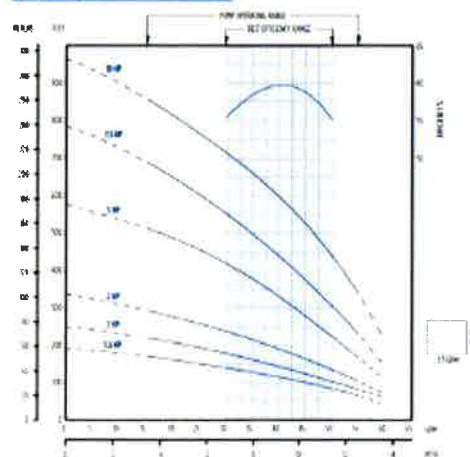
Reviews (0)

Franklin Electric 4" High Capacity Pump Specifications

- DISCHARGE SIZE: 2.7" NPT
- NOMINAL FLOW RATING: 45 GPM
- MOTOR POWER: 3.0 HP
- MAXIMUM CAPACITY: 60 GPM
- MAXIMUM HEAD: 140'
- STAGES: 11
- IMPELLER MATERIAL: Glass-Filled Modified PP2
- BODY MATERIAL: Stainless Steel
- MAXIMUM LIQUID TEMPERATURE: 133°F / 46°C

Franklin Electric 4" High Capacity 45 GPM Pump Curve

PERFORMANCE

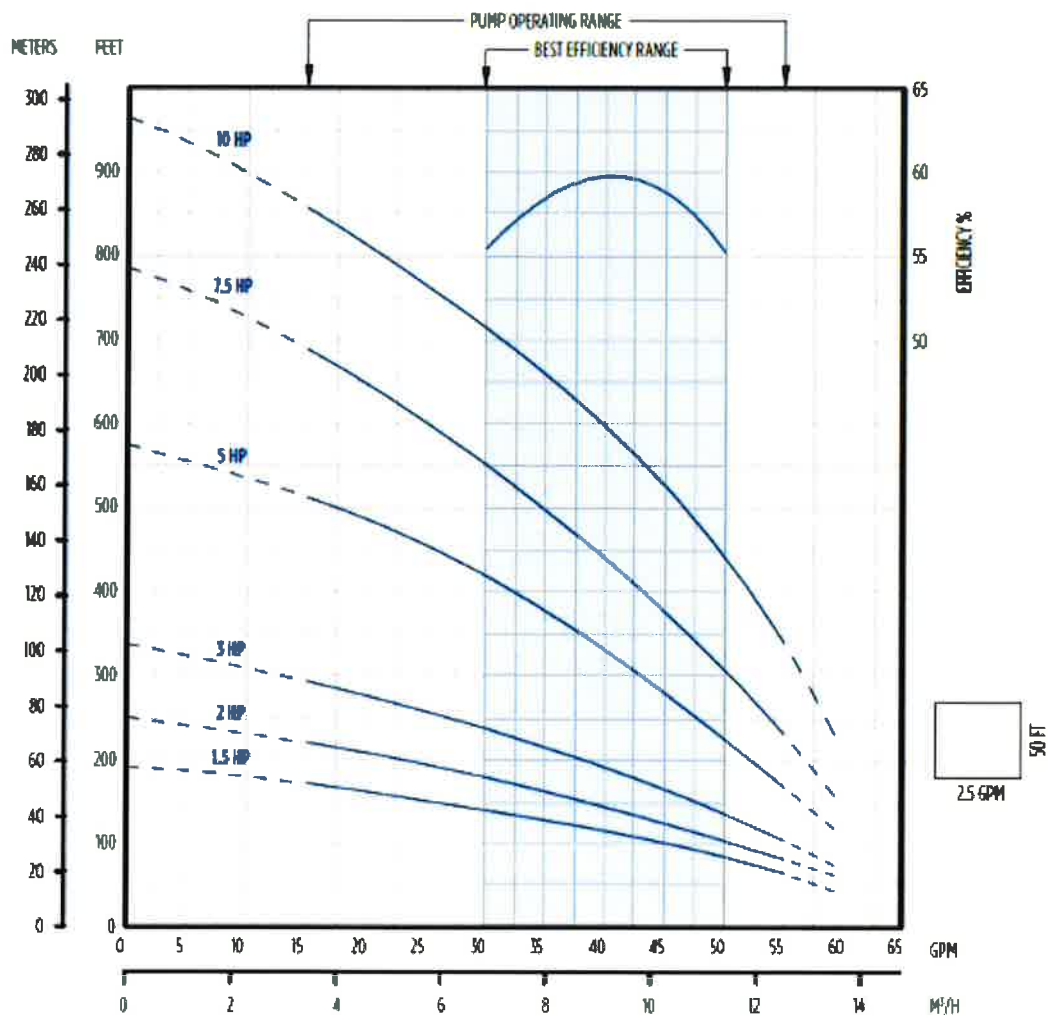


Franklin Electric 4" High Capacity Pump Specifications

- DISCHARGE SIZE: 2.0" NPT
- NOMINAL FLOW RATING: 45 GPM
- HORSEPOWER: 3.0 HP
- MAXIMUM CAPACITY: 60 GPM
- MAXIMUM HEAD: 340'
- STAGES: 11
- IMPELLER MATERIAL: Glass-Filled Modified PPO
- BODY MATERIAL: Stainless Steel
- MAXIMUM LIQUID TEMPERATURE: 120°F / 49°C

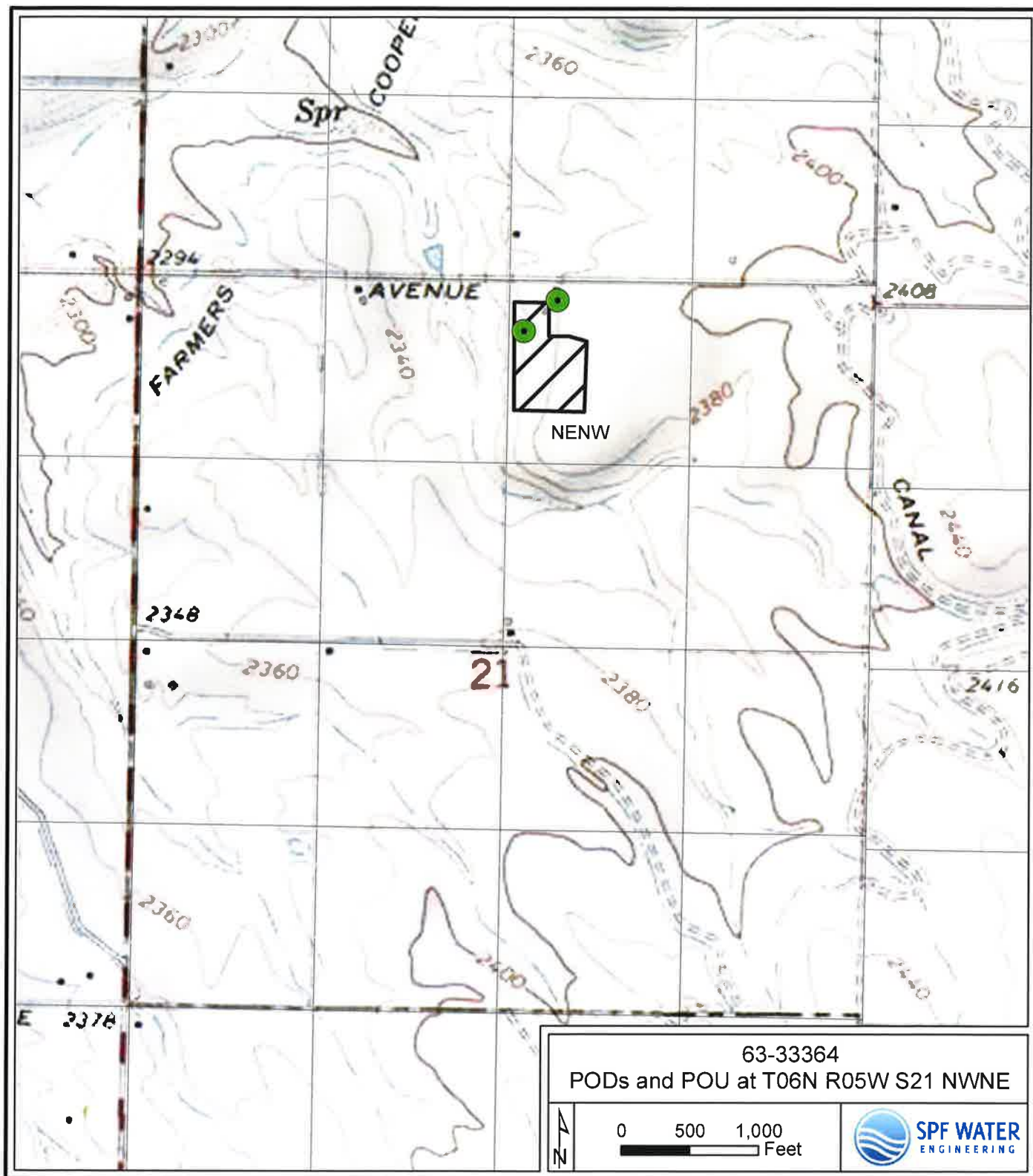
Franklin Electric 4" High Capacity 45 GPM Pump Curve

PERFORMANCE

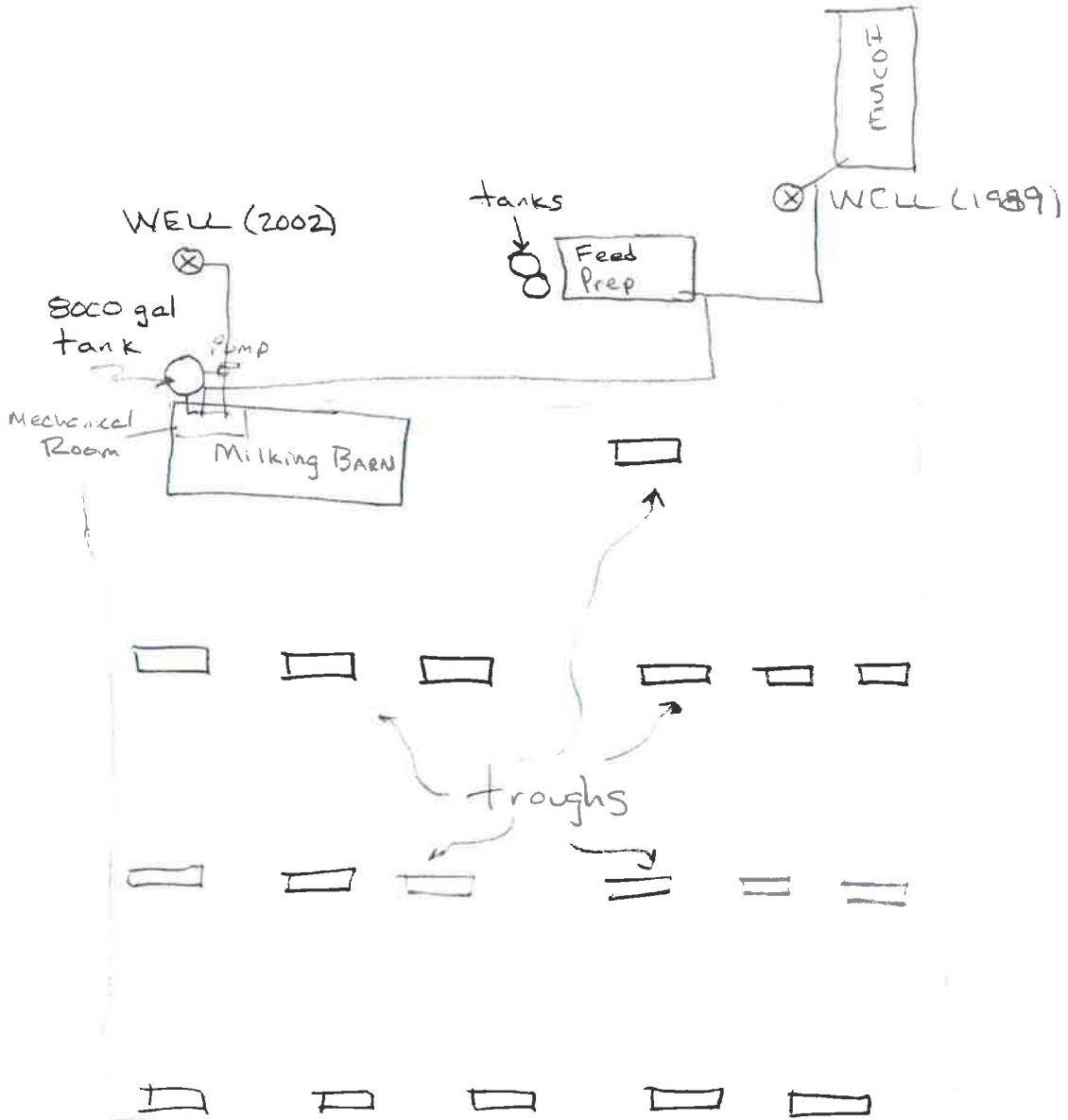


ATTACHMENT C

**TOPO MAP, 2019 AERIAL PHOTO,
SYSTEM SKETCH, and VOLUME SPREADSHEET**







Dairy Water System
Schematic
Not to Scale

DAILY FRESH WATER REQUIREMENT FOR DAIRY FACILITY

FOR: 63-33364, Allan Huttema
BY: Scott King, SPF Water Engineering, LLC
DATE: 5/7/2020

STOCKWATER REQUIREMENT

TYPE OF ANIMAL	NUMBER	USE/DAY	TOTAL GAL/DAY	TOTAL GAL/YEAR
MILKING COWS	750.00	35.00	26,250.00	9,581,250.00
DRY COWS & HEIFERS	70.00	14.00	980.00	357,700.00
TOTAL GALLONS			27,230.00	9,938,950.00

COMMERCIAL REQUIREMENT

WASH PEN ESTIMATE

GPM PER NOZZLE	NUMBER OF NOZZLES	TIME PER USE (IN MINUTES)	NUMBER OF USES	TOTAL GAL/DAY	TOAL GAL/YEAR
5.00	50.00	1.00	20.00	5,000.00	1,825,000.00

MILKING PARLOR ESTIMATES

ITEM	GALS/OP	X'S/DAY	GALS/DAY	GALS/YEAR
BULK TANK	116.00	2.00	232.00	84,680.00
COW PREP	0.25	1,500.00	375.00	136,875.00
PIPELINES	60.00	2.00	120.00	43,800.00
PARLOR CLEANUP	400.00	2.00	800.00	292,000.00
WASHPEN CLEANUP	400.00	2.00	800.00	292,000.00
TOTAL MILK PARLOR USE		2.00	2,327.00	849,355.00

MISCELLANEOUS USES

ITEM	GALS/OP	X'S/DAY	GALS/DAY	GALS/YEAR
TOWEL WASHING	50.00	4.00	200.00	73,000.00
MISC MAINTENANCE	1,000.00	1.00	1,000.00	165,000.00
RESTROOM	50.00	10.00	500.00	182,500.00
DUST CONTROL	50.00	8.00	400.00	146,000.00
FEED PREP	1,880.00	1.00	1,880.00	686,200.00
TOTAL MISCELLANEOUS USES			3,580.00	1,106,700.00

MISTERS

SPRINKLERS PER 5 COWS	NUMBER OF COWS	RATE PER SPRINKLER, IN GPM	HOURS USED PER DAY	DAYS USED PER YEAR	GALS PER DAY	GALS/YR
1	750	0.50	10.00	90.00	45000	4,050,000.00

FLOW RATE			
	TOTAL RATE PER DAY (GALS/ DAY)	TOTAL RATE OVER 24 HOURS (CFS)	TOTAL RATE OVER 14 HOURS (CFS)
STOCKWATER	27,230.00	0.04	0.07
COMMERCIAL	55,907.00	0.09	0.15
TOTAL	83,137.00	0.13	0.22

ANNUAL VOLUME (AFY)	
STOCKWATER	30.50
COMMERCIAL	24.03
TOTAL	54.5

ATTACHMENT D
PHOTOS



Figure 1: Main Dairy Well

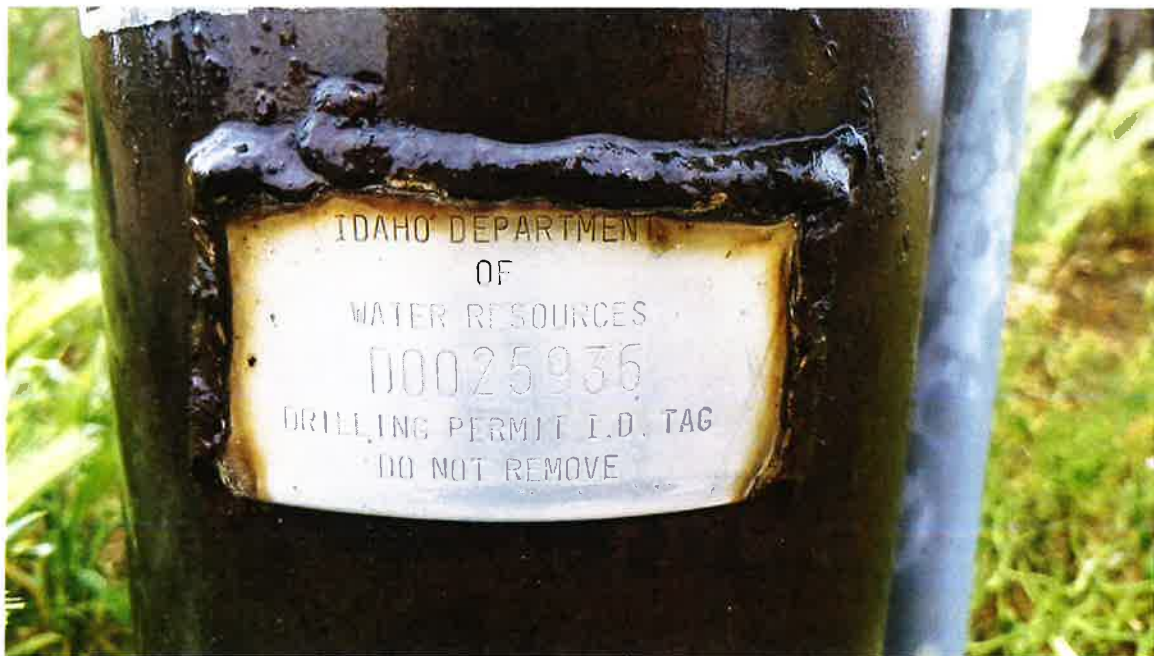


Figure 2: Dairy Well Tag (No. D0025936)



Figure 3: House, feed water, and backup dairy well (no tag).



Figure 4: Dairy Well in foreground left, milking parlor and water storage tank.

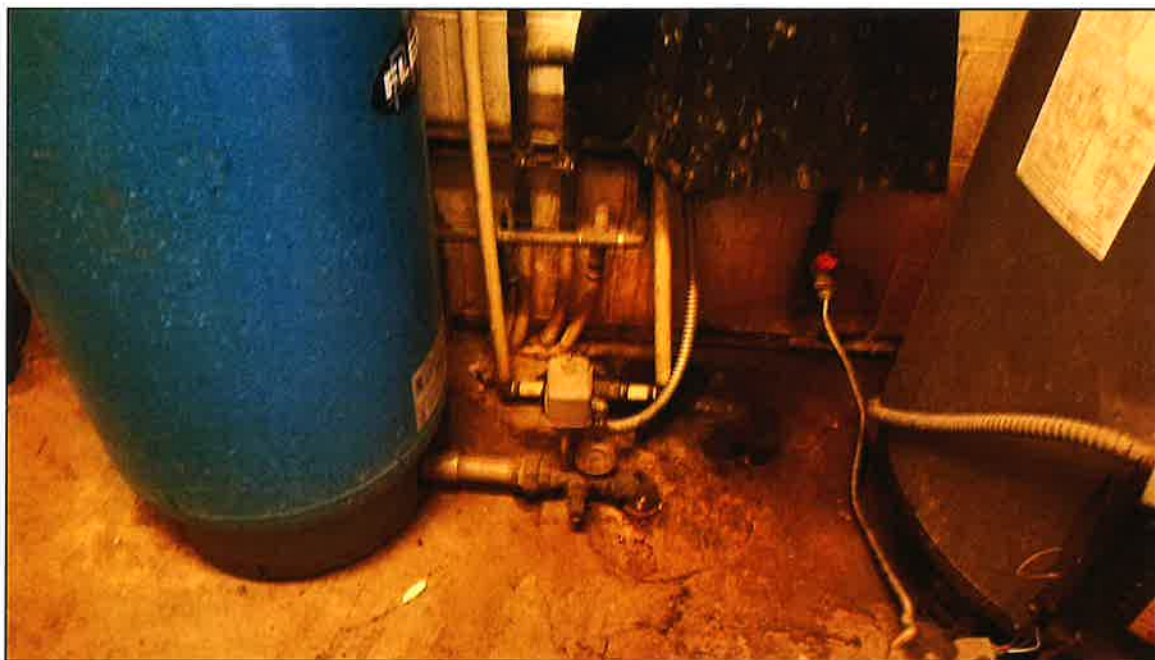


Figure 5: Main dairy well supply enters milk parlor mechanical room through floor into pressure tank.



Figure 6: Dairy backup well supply pipe enters milk parlor mechanical room through floor left of boot toe.



Figure 7: Panel for main dairy well pump with submersible pump model 45FA3S4-PE, Serial Number 17E221000242H, 3HP, 45 gpm, 11 stage, FPS 4400, Franklin Electric.



Figure 8: Storage tank on right, coolers left of tank, and tank booster pump in photo center, right and bottom of mechanical cooling equipment.



Figure 9: Storage tank booster pump.



Figure 10: Pens to left and parlor facing west.



Figure 11: Watering trough (typical)

ATTACHMENT E

OTHER RIGHTS

IDAHO Department of Water Resources



WATER RIGHT REPORT

4/14/2020

IDAHO DEPARTMENT OF WATER RESOURCES

Water Right Report

WATER RIGHT NO. 63-31140

<u>Owner Type</u>	<u>Name and Address</u>
Current Owner	ALLAN HUTTEMA
Current Owner	MARY JO HUTTEMA 1255 GRANDVIEW AVE PARMA, ID 83660 3608151057
Representative	SPF WATER ENGINEERING LLC C/O LORI GRAVES 300 E MALLARD DR STE 350 BOISE, ID 83706-6660 2083834140
Original Owner	DEANN PHILLIPS
Original Owner	RUSSELL PHILLIPS 1255 GRANDVIEW RD PARMA, ID 83660 2087226337

Priority Date: 03/24/1989

Basis: Decreed

Status: Active

<u>Source</u>	<u>Tributary</u>
GROUND WATER	

<u>Beneficial Use</u>	<u>From</u>	<u>To</u>	<u>Diversion Rate</u>	<u>Volume</u>
STOCKWATER	01/01	12/31	0.1 CFS	
DOMESTIC	01/01	12/31	0.04 CFS	
Total Diversion			0.14 CFS	

Location of Point(s) of Diversion:

GROUND WATER|NWNE|Sec. 21|Township 06N|Range 05W|PAYETTE County

DOMESTIC Use:

Number of homes: 1

Place(s) of use:

Place of Use Legal Description: STOCKWATER PAYETTE County

Township	Range	Section	Lot	Tract	Acres	Lot	Tract	Acres	Lot	Tract	Acres	Lot	Tract	Acres
06N	05W	21		NWNE										

Place of Use Legal Description: DOMESTIC PAYETTE County

Township	Range	Section	Lot	Tract	Acres	Lot	Tract	Acres	Lot	Tract	Acres	Lot	Tract	Acres
06N	05W	21		NWNE										

Conditions of Approval:

1. C18 This partial decree is subject to such general provisions necessary for the definition of the rights or for the efficient administration of the water rights as may be ultimately determined by the Court at a point in time no later than the entry of a final unified decree. Section 42-1412(6), Idaho Code.
2. N11 The quantity of water decreed for this water right is not a determination of historical beneficial use.
3. N13 The quantity of water under this right shall not exceed 13,000 gallons per day.
4. X01 Domestic use is for 1 home.

Dates:

Licensed Date:

Decreed Date: 04/29/2009

Enlargement Use Priority Date:

Enlargement Statute Priority Date:

Water Supply Bank Enrollment Date Accepted:

Water Supply Bank Enrollment Date Removed:

Application Received Date:

Protest Deadline Date:

Number of Protests: 0

Other Information:

State or Federal:

Owner Name Connector: And/Or

Water District Number: NWD

Generic Max Rate per Acre:

Generic Max Volume per Acre:

Civil Case Number:

Old Case Number:

Decree Plaintiff:

Decree Defendant:

Swan Falls Trust or Nontrust:

Swan Falls Dismissed:

DLE Act Number:

Cary Act Number:

Mitigation Plan: False