STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-17058
Exam Date: 08/11/2020

1. Current Owner:
DANIEL K MILLER 6097 W RIVERVIEW DR COEUR D ALENE ID 83814 AND/OR
LISA A MILLER 6097 W RIVERVIEW DR COEUR D ALENE ID 83814

2. Accompanied by: Lisa A Miller
Phone No: 208-660-7492
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
95-10180	SPRING	DOMESTIC	DECREED
95-17547	GROUNDWATER	DOMESTIC	ADJUDICATION RECOMMENDATION

Comments: Right 95-10180 uses spring water for domestic use, and is a decreed right. Right 95-17547 uses groundwater for domestic purposes for same home as this right, and is has been recommended in the CSRBA.

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

Water Right No.	Source	Purpose of Use	Basis

Comments: _____

C. DIVERSION AND DELIVERY SYSTEM

1. **LOCATION OF POINT(S) OF DIVERSION:**
GROUND WATER NE¼ SE¼, Sec. 8, Twp 50N, Rge 04W, B.M. KOOTENAI County

Method of Determination: GPS. POD located at -116°51.205, 47°41.533. Well D-TAG D0069411.

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	
50N	04W	8													X				

Method of Determination: Field exam and Arcmap.

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.
__X__ 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
__X__ 1:24,000 or greater.

__X__ Aerial Photo Attached (required for irrigation of 10+ acres).

__X__ Photo of Diversion and System Attached

4.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
D0069411	FRANKLIN	3			

D. FLOW MEASUREMENTS

1.

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

2. Measurements: Unable to perform flow measurement because system pumped directly into pressure tank.

E. FLOW CALCULATIONS

__X__ Additional Computation Sheets Attached

Measured Method: Theoretical pumping equation estimates flow at **0.03 cfs**, with pump depth of 585 ft and system operating pressure of 60 PSI.

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation: N/A

$V_{I.R}$ = (Acres Irrigated) x (Irrigation Requirement) =

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

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

2. Volume Calculations for Other Uses:

Domestic annual volume = **1.2 af**

G. NARRATIVE/REMARKS/COMMENTS

Field exam conducted on 8/11/2020 with the applicant, Lisa Miller, showed groundwater from a well serving domestic purposes. The well had a 3 HP Franklin pump that diverted water directly to a pressure tank, and as such flow measurements were not attainable. Theoretic Pump Equation derived a diversion rate of 0.03 cfs, with pump at depth of

585 ft, and system operating pressure of 60 psi. Applicant had permitted for 0.04 cfs, but is limited to pump performance at time of field exam, which is **0.03 cfs**, that will be applied to license.

One home was identified during field exam, and irrigation was observed by hose bib and hose-to-sprinkler for the yard surrounding the home. Arcmap aerial imagery was used to trace out the POU, which includes approximately 0.75 acres to account for 1 home and up to ½ acre irrigation. The overall license will be issued for a maximum diversion volume of **1.2 af**. Applicant stated the well was drilled to supplement a prior water right, 95-10180, which used spring water to service the home for domestic purposes. Applicant stated the spring source was still hooked up, but not active at time of field exam. Applicant stated they cycle the spring source periodically to maintain functionality of the system, but rely on the well as their source of domestic use water for the majority of the year, and keep the spring source in the event of well issues for future use.

Condition 26A, and 046 were removed from permit at time of licensing. Condition X35 was updated to reflect that Rights 95-10181 and 95-17058 when combined shall not exceed a total diversion rate of 0.07 cfs, at total annual maximum diversion volume of 1.2 af at the field headgate, and the irrigation of 0.5 acres. The combined diversion rate of 0.07 between the two rights, 95-10181 and 95-17058, accounts for applicant having both sources hooked up to water system with capability to operate both. All other conditions shall remain on license.

Overlapping water rights include: Right 95-10180 uses spring water for domestic use, and is a decreed right. Right 95-17547 uses groundwater for domestic purposes for same home as this right, and is has been recommended in the CSRBA. Conditions X35 and 928 have been applied to this license to mitigate overlap concerns. There are no other overlap concerns for this right.

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

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use	Rate of Diversion	Annual Volume
DOMESTIC	01/01 to 12/31	0.03 CFS	1.2 AF
	Totals:	0.03 CFS	1.2 AF

2. Recommended Amendments

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

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

I. AUTHENTICATION

Luke Bates - Water Resource Agent

Field Examiner's Name [signature] Date 8/14/2020

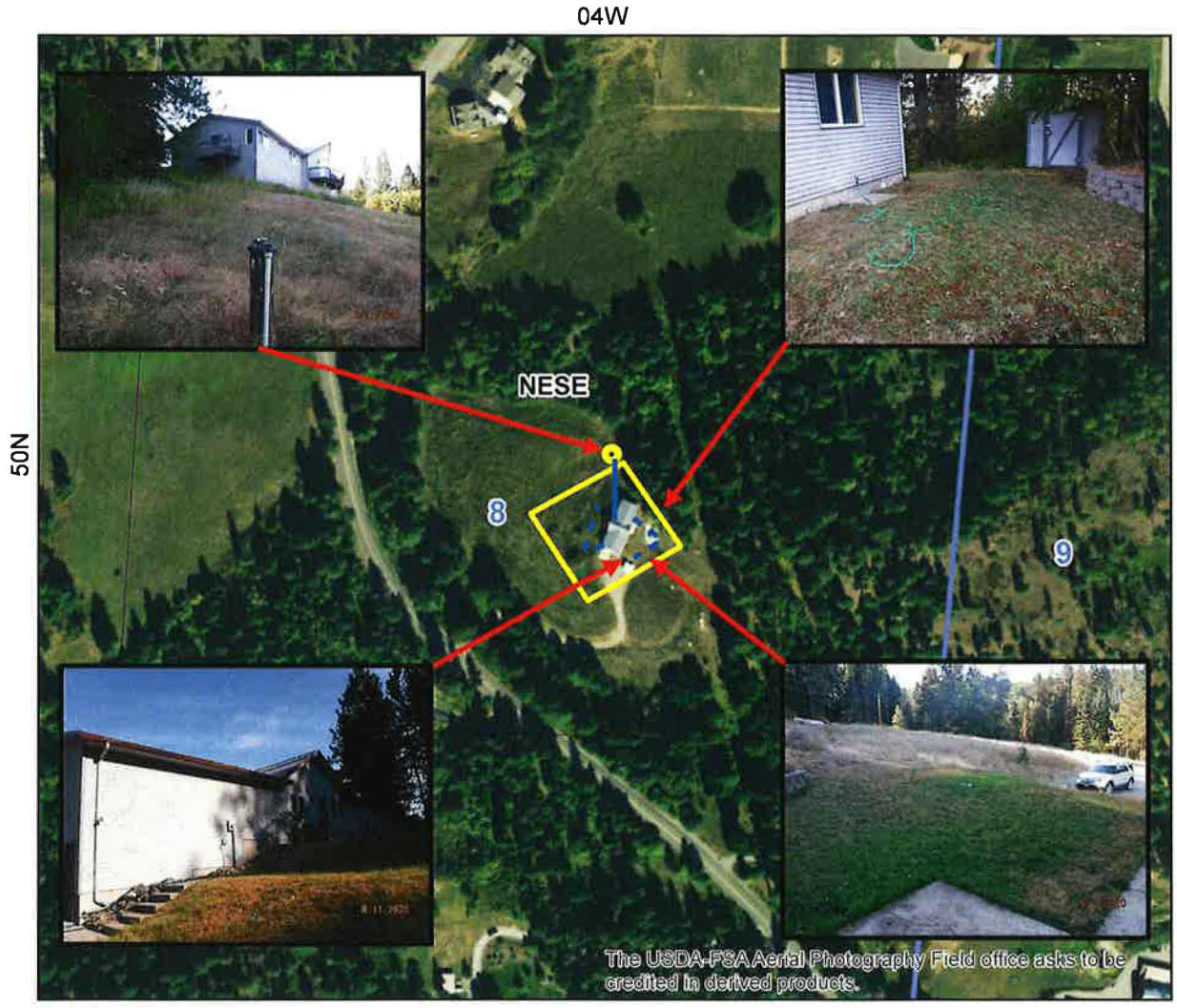
Reviewer [signature] Date 8/21/2020

State of Idaho
Department of Water Resources

Attachment to Field Exam

95-17058

DOMESTIC system diagram.



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

0 0.035 0.07 0.14 Miles

N

THEORETICAL PUMPING EQUATION FOR WR# 95-17058

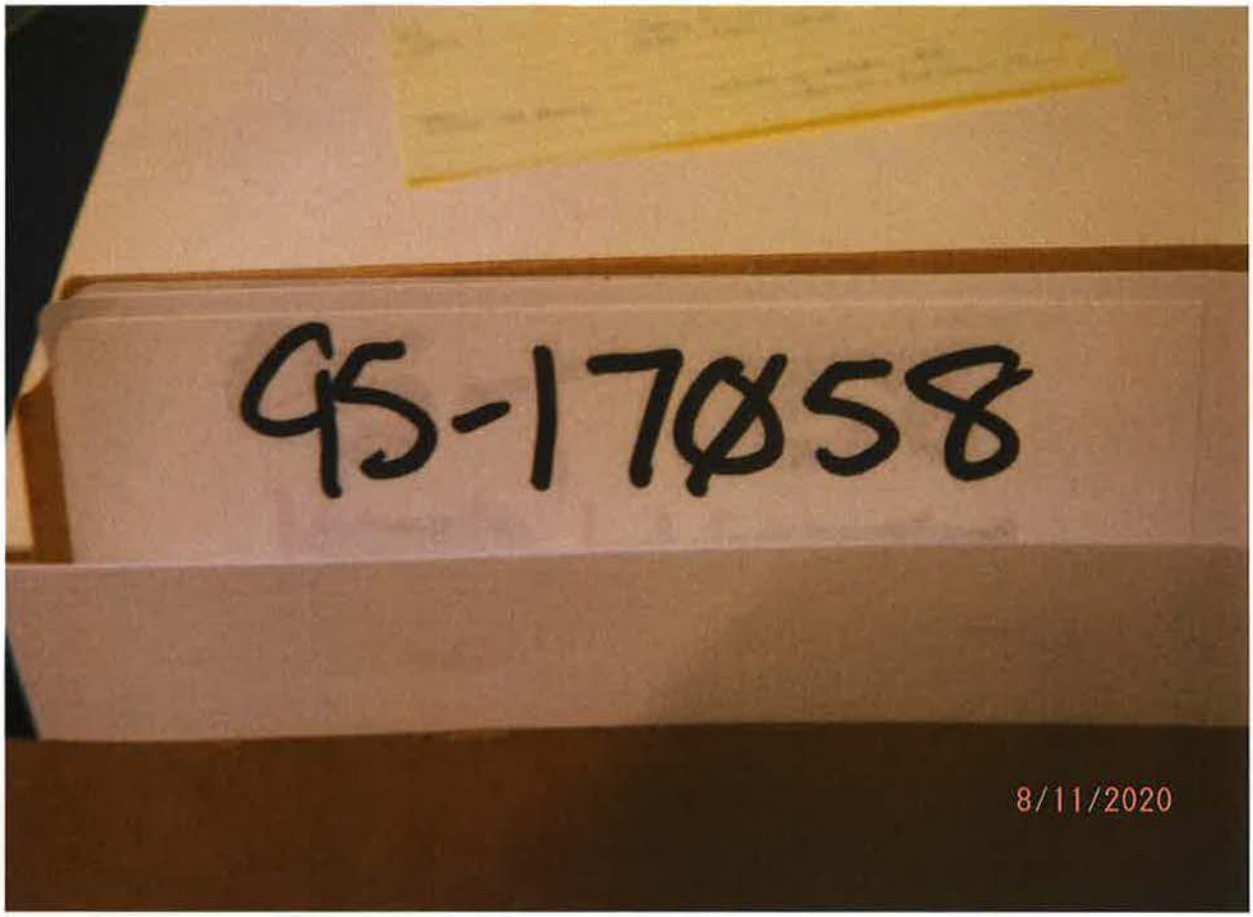
Theoretical Pumping Equation is required because system did not allow for a proper measurement. Pump is estimated to be at 585 ft, and running at 60 psi.

PUMP EQUATIONS

WATER RIGHT No. 95-17058

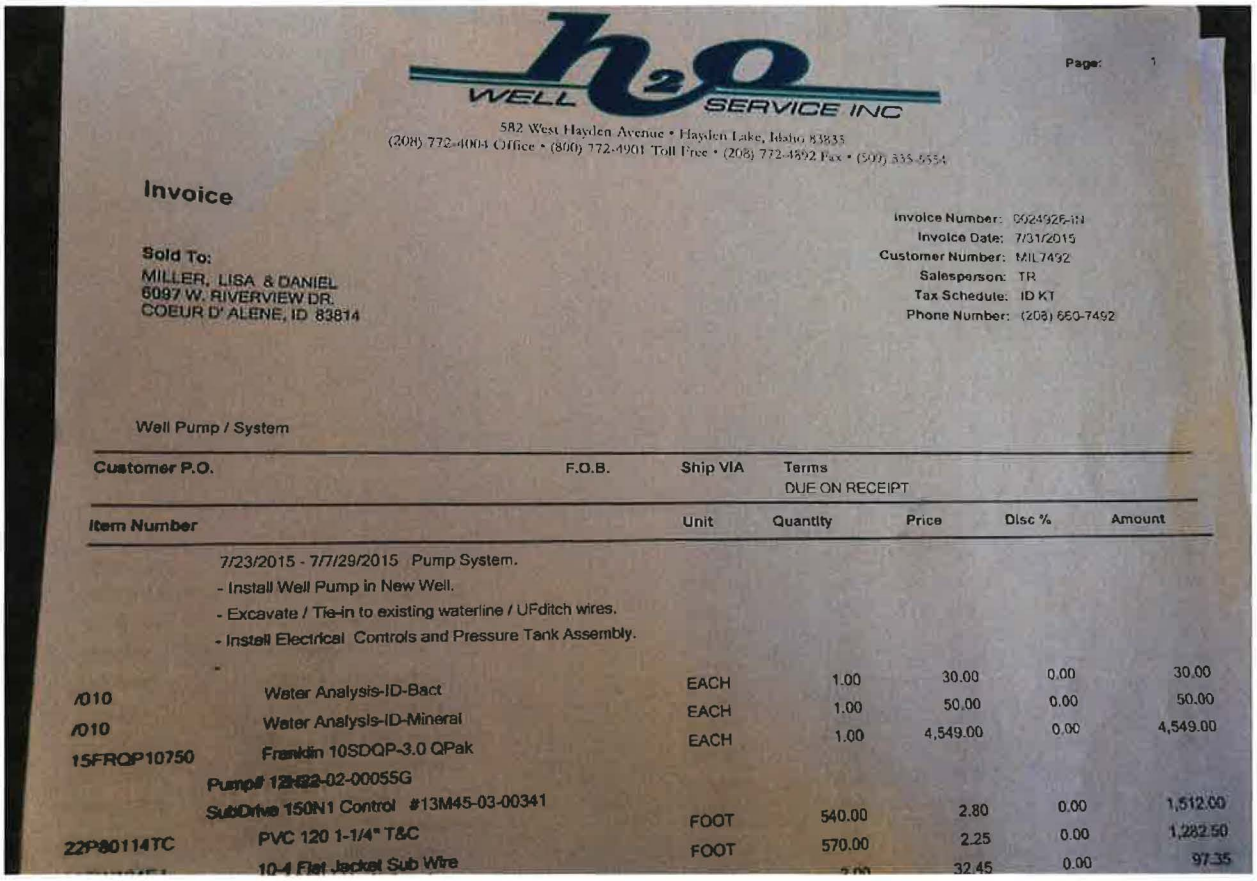
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/H	3	723.7755	0.8	585	60

Q = **0.029 cfs** **13.1 gpm**



POD – WELL D0069411

POD – WELL D TAG D0069411



h2o WELL SERVICE INC

582 West Hayden Avenue • Hayden Lake, Idaho 83835
(208) 772-4004 Office • (800) 772-4901 Toll Free • (208) 772-4892 Fax • (509) 535-5554

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Invoice

Sold To:
MILLER, LISA & DANIEL
6097 W. RIVERVIEW DR.
COEUR D' ALENE, ID 83814

Invoice Number: 0924926-IN
Invoice Date: 7/31/2015
Customer Number: MIL7492
Salesperson: TR
Tax Schedule: ID KT
Phone Number: (208) 660-7492

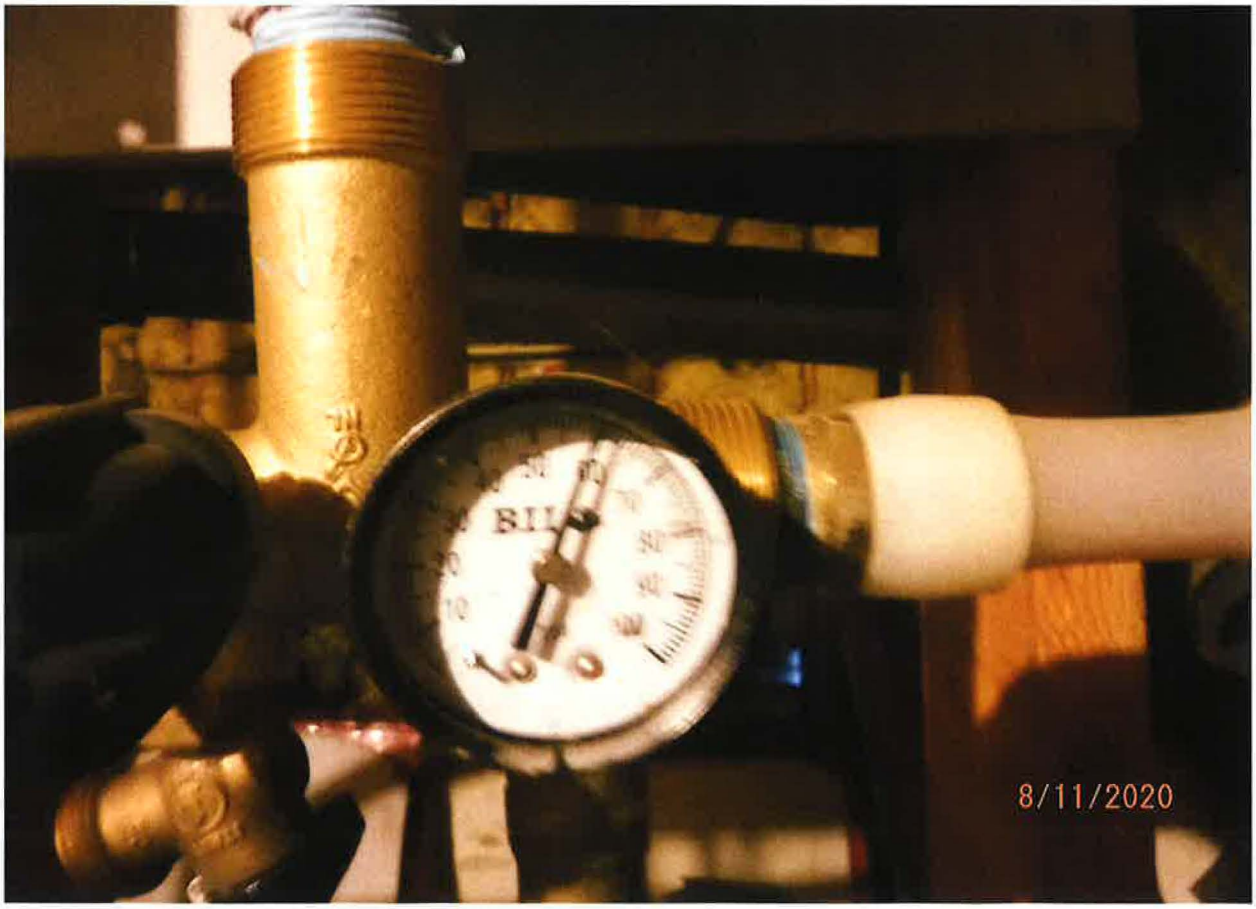
Well Pump / System

Customer P.O.	F.O.B.	Ship VIA	Terms
			DUE ON RECEIPT

Item Number		Unit	Quantity	Price	Disc %	Amount
	7/23/2015 - 7/7/29/2015 Pump System. - Install Well Pump in New Well. - Excavate / Tie-in to existing waterline / UFditch wires. - Install Electrical Controls and Pressure Tank Assembly. -					
/010	Water Analysis-ID-Bact	EACH	1.00	30.00	0.00	30.00
/010	Water Analysis-ID-Mineral	EACH	1.00	50.00	0.00	50.00
15FRQP10750	Franklin 10SDQP-3.0 QPak Pump# 12N32-02-00055G SubDrive 150N1 Control #13M45-03-00341	EACH	1.00	4,549.00	0.00	4,549.00
		FOOT	540.00	2.80	0.00	1,512.00
22P80114TC	PVC 120 1-1/4" T&C	FOOT	570.00	2.25	0.00	1,282.50
	10-4 Flat Jacket Sub Wire			32.45	0.00	97.35

3 HP FRANKLIN ELECTRIC WELL PUMP

WATER CONVEYANCE SYSTEM



WATER SYSTEM 60 PSI OPERATING PRESSURE

DOMESTIC POU WITH UP TO ½ ACRE IRRIGATION

DOMESTIC POU WITH UP TO ½ ACRE IRRIGATION