

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-33567
Exam Date: 09/03/2020

1. Current Owner:
MATTHEW REED PO BOX 9351 NAMPA ID 83652

2. Accompanied by: Matthew Reed
Phone No: (206) 266-6590
Address: 2725 1 Lane East
Relationship to permit Holder: same

3. **SOURCE:**
GROUND WATER

Method of Determination: Permit application, IDWR records, and field examination

B. OVERLAP REVIEW

1. Other water rights with the same place of use: NO Overlap

Water Right No.	Source	Purpose of Use	Basis

Comments: Within Black Canyon Irrigation District, but no surface water delivered to property. 63-33567 developed as primary groundwater.

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

Water Right No.	Source	Purpose of Use	Basis

Comments: NO POD Overlap

C. DIVERSION AND DELIVERY SYSTEM

1. **LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER SE¼ SE¼, Sec. 9, Twp 06N, Rge 05W, B.M. PAYETTE County

Method of Determination: Field examination and Garmin Handheld GPS point

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	05W	9																X	

Method of Determination: Aerial Imagery, ArcMap Tools, and observation during field exam.

3.

X 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.

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
D0068894	Franklin	1.5		10 SDQP	10 GPM

D. FLOW MEASUREMENTS

1.

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

2. Measurements:

E. FLOW CALCULATIONS

X Additional Computation Sheets Attached

Measured Method:

Theoretical pump calculation

1.5 hp submersible pump from well with pump set at 140 feet.

$$Q = (8.8) \times (1.5 \text{ hp}) \times 0.70 / [(140) + (30 \times 2.31)] = 0.04 \text{ cfs or } 19.81 \text{ gpm}$$

Permit	0.44 cfs
B.U. Standard Rate	0.04 cfs
B.U. Fee Paid	\$50 → 0 to 0.20 cfs
Theoretical	0.04 cfs

License Recommendation 0.04 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 =$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} =$$

2. Volume Calculations for Other Uses:

According to AP memo 22, annual volume for 1 domestic household is 1.2 afa per household when irrigation is included, which is the case with this permit. 1.2 afa is recommended for licensing.

G. NARRATIVE/REMARKS/COMMENTS

Matthew Reed is the owner of water permit 63-33567 for domestic and irrigation use near Parma, ID. The proof of beneficial use was submitted on November 29, 2016 with an examination fee of \$50.00. An exam was conducted on September 3, 2020 by water resource agent Allen Bradbury. Permit holder and property owner, Matthew Reed, accompanied the agent on the field exam. Pump and well information were provided by the water right holder at the time of the exam. Current Payette County tax parcel data lists Donald E. Reed as the current owners of the property pertinent to the place of use (POU) and point of diversion (POD). No ownership change is required.

This permit authorizes 0.40 cfs for 20 acres of irrigation and 0.04 cfs of domestic use for one home within parcel 06N05W099010 in Payette County. The permit holder irrigates small sections of lawn around the house via hoses. There were standard hose spigots on the house and a frost free spigot in the yard used for general domestic purposes, and not used for regular irrigation of the property. Many fruit trees located around the outside perimeter are irrigated by a combination of hoses and drip lines. The permit holders stated that they did not irrigate any additional ground except around the house, and no other beneficial use of irrigation was observed during the field exam. GIS analysis of the areas irrigated is about 0.5 acres. The current definition of single household domestic water use is provided by section 42-230(d), Idaho Code, which states: "Domestic purposes" is water for household use or livestock and water used for all other purposes including irrigation of up to one half (1/2) acre of land in connection with said household where total use is not in excess of thirteen thousand (13,000) gallons per day. It is recommended that the irrigation component and related conditions should be removed for licensing, however the Domestic use should be retained for up to one half acre.

The point of diversion is a 6" well (tag# D0068894) located 43° 52.028'N 116° 56.105'W which contains a 1.5-hp submersible pump. The well supplies water for domestic uses only, no further irrigation development was found. The theoretical calculation of the well, using estimated household pressures of 30-55 psi, estimates a domestic rate of 0.04 cfs. No flow measurements were taken on the system. According to A.P. Memo #22 the standard rate for 1 domestic household is 0.04 cfs. The statement of completion for beneficial use was submitted for domestic use only. The domestic rate recommended for licensing is 0.04 cfs.

Conditions 026A and 046 were removed as per department licensing standards. Conditions 004 and R65 were removed. Condition 121 was updated to 103 as per department licensing standards. Condition concerning parcel number removed.

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>Volume</u>
DOMESTIC	01/01 to 12/31	0.04 CFS	1.2 AF

Totals: 0.04 CFS 1.2 AF

2. Recommended Amendments

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

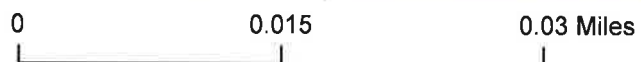
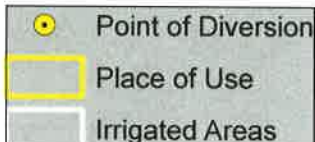
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☒ None

I. AUTHENTICATION Allen Bradbury - Water Resource Agent, Senior

Field Examiner's Name Allen Bradbury Date 11/3/20
 Reviewer Patricia Kelly Date 11-4-2020

63-33567 REED

System diagram for domestic purposes including irrigation of lawn, garden, and fruit tree areas with hoses from a 1.5 hp submersible well pump.



BENEFICIAL USE FIELD REPORT CALCULATIONS

Permit #: 63-33567
Permit Name: MATTHEW REED

Proof Due: 12/1/2016
Priority Date: 8/26/2011
Approved Date: 12/7/2011

Proof Subm: 11/29/2016
Exam Date: 9/3/2020

Flow Rate 0.00 to 0.20
Fee Rate 0.04
Exam Fee \$50.00

0.00 to 0.20	\$50.00	2.01 to 3.00	\$150.00
0.21 to 1.00	\$100.00	3.01 to 4.00	\$175.00
1.01 to 2.00	\$125.00	4.01 to 5.00	\$200.00

Proposed Well Use: Domestic
Permit Uses: Irrigation
Domestic
Drill Date: 3/20/2015
metal tag#: D0068894
Well Depth: 175
Pump Set: 140 ft

	cfs	gpm
Proposed Rate	0.44	197.49
Permit Rate	0.44	197.49
Proof Report	0.04	17.95
Irrig. Only	0.40	179.53
Stockwater		0.00
Domestic	0.04	17.95

Acres Proposed:	20.0
Acres Permitted:	20.0
Acres Developed:	0.50

FLOW CALCULATIONS

Meter Type: n/a
Meter Reading: 0.000 cfs

Nozzle Size	
Input # heads:	
Input gpm/head	
gpm/line	0.0
cfs/line	0.00

10 SDQP 1.5 HP

Theoretical Method

$$Q = \frac{(8.8) \times (HP) \times E}{TDH}$$

Est. Pump Set	minus 10' =					
HP =	E =	H =	PSI =	Q =	Q =	
1.5	70.0%	140	30	0.04	19.81	
				cfs	gpm	

$$TDH = [(LIFT) + (PSI \times 2.31)]$$

TDH =	Lift =	PSI =	2.31
0.0			2.31

HP = Total Brake Horsepower of pumping plant (including booster)

Eff. = Pumping plant efficiency (assume 70% or 0.70)

TDH = Total dynamic head = $[(LIFT) + (PSI \times 2.31)]$

PSI = Pumping pressure measured in PSI near pump
(if open discharge assume [0])

Q = rate of flow in cubic feet per second,

Recommended Flow Rate: 0.04

Consumptive Use	4.5	Headgate Requirement	4.5	
Season of Use	3/1	11/15	=	260 days
Volume (VIR)	0.50	X	4.5	= 2.3 af
Volume (DR)	0.040	x	260	= 1.9835
BU Standard Rate	0.50	X	0.02	= 0.01 cfs
Rate/acre	0.040	/	0.50	= 0.080 cfs/ac

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.

Recommendation Standards for diversion rate (choose most restrictive)

0.44 Permit Rate – the rate applied for

0.04 Fee Rate – the maximum rated paid for on the fee schedule.

0.01 Beneficial Use (BU) standard = $x \cdot x \text{ ac} \cdot 0.020 \text{ cfs/acre}$

0.00 Measured Value – the value measured in the field

0.04 Theoretical Rate - the rate calculated

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

Location Corrected by IDWR To:

T06N R05W Sec. 9 SESE

By: bserrano 2016-10-07

1. WELL TAG NO. D 0068894

Drilling Permit No. 918052-874709
Water right or injection well # _____

2. OWNER:

Name Don Reed
Address 1882 W. Creek Court
City Nampa State ID Zip 83686

3. WELL LOCATION:

Twp. 6 North ☒ or South ☐ Rge. 5 East ☐ or West ☒
Sec. 7 1/4 SE 1/4 SE 1/4

Gov't Lot _____ County Payette
Lat. 43 52.023 (Deg. and Decimal minutes)
Long. 116 56.112 (Deg. and Decimal minutes)
Address of Well Site 2725 1st Lane East
City Parma

Lot _____ Blk. _____ Sub. Name _____

4. USE:

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

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 ft ³)	Placement method/procedure
3/4 Bent.	0'	43'	51 bags	10" Overbore

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing	Liner	Threaded	Welded
6"	+2	159'	.250	Steel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 159'

9. PERFORATIONS/SCREENS:

Perforations ☐ Y ☒ N Method: _____

Manufactured screen ☒ Y ☐ N Type Alloy

Method of installation Wash In

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
165'	175'	.016	N/A	5"	SS	N/A

Length of Headpipe 10' Length of Tailpipe _____

Packer ☒ Y ☐ N Type K-packer

10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method
None				

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) 90' Static water level (ft) 99'
Water temp. (°F) 56° Bottom hole temp. (°F) _____
Describe access port Well Cap

Well test:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)	Pump	Bailer	Air	Flowing artesian
40'	45 GPM	60 min.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Water quality test or comments: Iron .8, PH 7.9, Hardness 18

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	N
10"	0'	2'	Topsoil		X
10"	2'	30'	Brown Clay		X
10"	30'	43'	Cemented Gravel		X
6"	43'	56'	Pea Gravel		X
6"	56'	61'	Gravel		X
6"	61'	74'	Brown Clay		X
6"	74'	90'	Silty Brown Clay		X
6"	90'	112'	Sand Stone	X	
6"	112'	123'	Tan Clay		X
6"	123'	133'	Sand	X	
6"	133'	159'	Tan Clay		X
6"	159'	163'	Tan Clay w/Sand Streaks	X	
6"	163'	175'	Sand	X	

RECEIVED

MAR 27 2015

WATER RESOURCES
WESTERN REGION

Completed Depth (Measurable): 175'

Date Started: Mar 17, 2015

Date Completed: Mar 20, 2015

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 Adamson Pump & Drilling Co. No. 457

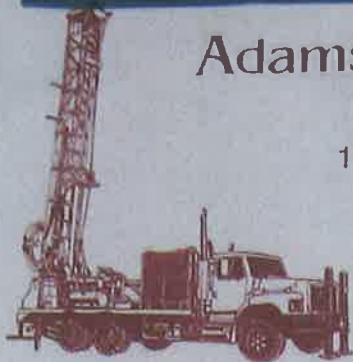
*Principal Driller David Adamson Date Mar 24, 2015

*Driller Sam Navarro Date Mar 24, 2015

*Operator II _____ Date _____

Operator I Josh Young Date Mar 24, 2015

* Signature of Principal Driller and rig operator are required.



Adamson Pump & Drilling, Inc.

Pumps • *Dave Adamson* • Wells

1320 Smith Avenue • Nampa, ID 83651

208-466-6439 • Fax 208-466-0008

Date: 7/16/13

Name: **Matt Reed** Address: **Corner of 1st Ln. East/Locker Rd. - Parma**
 Phone: **206-229-6590** Cell: Email: **matt@mattreed.info**
 Legal Description: **T: R: S: 1/4 1/4** Fax:

Water Well:

Feet 175 @ \$ 30.00

Drive Shoe

Stainless Steel Screen: 5'

Well Cap

Bentonite Surface Seal

Drill Permit

Misc. Supplies

Total Water Well

Estimated

\$	5,250.00
\$	75.00
\$	1,000.00
\$	55.00
\$	1,250.00
\$	100.00
\$	150.00
Total Water Well:	\$ 7,880.00

Pump: 10 SDQP 1.5 HP

Fire Suppression: None

Motor: Franklin

Controller: Variable Speed

G.P.M. 10 GPM

H.P. 1.5

Warranty: 5 Years - Pump/Motor

3 Years - Controls

Underwater Splice

Drop Pipe

Water Line

Pump Cable

Underground Cable

Well Seal

Pitless Adaptor

Pressure Tank

Fittings

Bury Hydrant

Casing Size: 6"

Well Depth: 175'

Static Water: 100'

140 \$ 1.70 1-1/4" Schedule 120 PVC

100 \$ 1.00 1-1/4" #160 Poly

150 \$ 1.70 #10-3 w/ground

120 \$ 1.65 #10-3 w/ground

1-1/4" Brass

102

With Sprinkler Hook-up - Add \$150

\$	1,978.00
\$	75.00
\$	12.50
\$	238.00
\$	100.00
\$	255.00
\$	198.00
\$	75.00
\$	135.00
\$	250.00
\$	95.00

Notes:

Estimate good for 30 days. Thank-you for your business!

Parts (taxable)

Labor

Winch Truck

Mileage

Plumbing Permit

Electrical Permit

Misc. Supplies

\$	3,411.50
\$	750.00
\$	45.00
\$	45.00
\$	65.00
\$	65.00
\$	200.00

Total Pump System: \$ 4,581.50

Well & Pump Total: \$ 12,461.50

Please Note: Well depth and material quantities are estimated. Billing will reflect actual quantities installed.



Figure 1. Well tag for Adamson pump.



Figure 2. Well tag number D0068894.



Figure 3. Well head and frost free faucet, landscape is irrigated by garden hoses.



Figure 4. North side of property, showing lawn and trees outside the fenceline.



Figure 5. Hoses irrigating trees on south side and west side of property.



Figure 6. Irrigation of lawn and landscaping on south lawn.



Figure 7.
Irrigation of fruit
trees on east side
of property.



Figure 8.
Irrigation of fruit
trees and raised
garden beds on
east side of house.



Figure 9.
Irrigation of lawn
behind garage.



Figure 10. Well
GPS location.



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region • 2735 W Airport Way • Boise ID 83705-5082

Phone: (208) 334-2190 • Fax: (208) 334-2348

Website: idwr.idaho.gov • Email: westerninfo@idwr.idaho.gov

BRAD LITTLE
Governor

GARY SPACKMAN
Director

August 27, 2020

DONALD E REED
PO BOX 1194
PARMA, ID 83660

RE: Scheduling Field Exam for Water Permit No. 63-33567

Dear Mr. Reed:

We are planning to conduct water right examinations in the vicinity of the above-referenced permit **this season**. An examination is needed to verify the water use in order to issue a water right license.

The above-referenced permit authorizes **0.44 CFS of GROUND WATER for DOMESTIC use and IRRIGATION of up to 20 acres**. I have enclosed a water permit report and map depicting the permit place of use and point of diversion for your reference.

The current water right permit owners of record are MATTHEW REED. We have been unable to contact the permit holder to schedule a field examination. County tax lot information indicates you may own the place of use property associated with this permit. A water right permit is personal property of the permit owner but the Department will work with the property owner if the beneficial use was developed. If a beneficial use of water under the permit was not developed a license cannot be issued and the permit will be voided.

Please contact me within the next thirty (30) days at (208) 334-2190 to either schedule an examination or notify the department a beneficial use was not developed or was abandoned. If you do not respond to this letter, the department will void the permit. I appreciate your attention in this matter and I look forward to hearing from you.

Sincerely,

Allen Bradbury
Water Resource Agent, Sr.
IDWR Western Region

Enclosure(s): Proof Report and Map



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region • 2735 W Airport Way • Boise ID 83705-5082

Phone: (208) 334-2190 • Fax: (208) 334-2348

Website: idwr.idaho.gov • Email: westerninfo@idwr.idaho.gov

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JUL 17 2020

WATER RESOURCES
WESTERN REGION

BRAD LITTLE
Governor

GARY SPACKMAN
Director

June 30, 2020

MATTHEW REED
PO BOX 9351
NAMPA, ID 83652

RE: Scheduling Field Exam for Water Permit No. 63-33567

Dear Permit Holder:

We are planning to conduct water right examinations in the vicinity of the above-referenced permit **this season**. An examination is needed to verify the water use in order to issue a water right license.

The above-referenced permit authorizes **0.04 CFS of GROUND WATER for IRRIGATION and DOMESTIC use**. **If you have developed a beneficial use and still own the place of use property, please contact me at your earliest convenience to schedule an examination.**

If you did not develop a beneficial use of water under the permit during the beneficial use period, a license cannot be issued and the permit should be relinquished. If that use was developed, but have ceased using the water and you currently carry no interest in it, please relinquish the permit by submitting the enclosed Relinquishment of Permit form (no fee required).

If you did develop a beneficial use of water under the permit, but you no longer own the place of use property identified in the permit, please submit the enclosed Assignment of Permit form with the applicable \$25 processing fee.

Please contact me within the next thirty **(30) days** at (208) 334-2190 to either schedule an examination or submit a relinquishment or assignment form. If you no longer own the place of use property and/or do not respond to this letter, the department will work with the current property owner to issue a license or void the permit.

Sincerely,

Allen Bradbury
Water Resource Agent, Sr.
IDWR Western Region

Enclosure: Relinquishment of Permit Form
Assignment of Permit Form
Proof Report and Map

Cc: