

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 67-15156

Exam Date:

1. Current Owner:
WILLIAM WORTHY PO BOX 155 PAYETTE ID 83661
JACKI WORTHY PO BOX 155 PAYETTE ID 83661-0155

AND/OR

2. Accompanied by: OWNER

3. **SOURCE:**
GROUND WATER

Method of Determination: Permitted for groundwater diversion pulled from an existing well drilled in 2016

B. OVERLAP REVIEW

No POD or POU overlap considered

C. DIVERSION AND DELIVERY SYSTEM

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

(2) GROUND WATER L3 (NE ¼ SW ¼), Sec. 22, Twp 09N, Rge 05W, B.M. PAYETTE County

Method of Determination: Legal description in permit validated by field exam inspection

PLACE OF USE: IRRIGATION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
09N	05W	22									9.5 L3					0.5			10.0

Total Acres: 10.0

Method of Determination: Legal description in permit validated by field exam inspection and satellite imagery.

- 3.
- Y Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- Y Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
- Y Aerial Photo Attached (required for irrigation of 10+ acres).
- Y 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
D0073089	No info available	5	No info available		
D0073088		3			

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Calib. Date
Flow Meter	Transducer (GE)	TransPort	PT878	10087	March 2019

2. Measurements:

- Diameter = 4.5 in
- Wall = 0.13 in
- Average Pumping Rate = 194.4 GPM

E. FLOW CALCULATIONSY Additional Computation Sheets Attached

Measured Method: Flow measurements taken from flowmeter for 11 minutes in 1 min. intervals

Relevant Conversions Units:

- 9 GPM = 0.02 cfs

Well Diversion Rate (as measured during filed exam):

$$194 \text{ GPM} \left(\frac{0.02 \text{ cfs}}{9 \text{ GPM}} \right) = \boxed{0.43 \text{ cfs}}$$

Well Diversion Rate (Department standard):

$$0.02 \text{ cfs per acre} \times 10 \text{ acres} = \boxed{0.2 \text{ cfs}}$$

F. VOLUME CALCULATIONS

Measured Method: Flow measurements taken from flowmeter for 11 minutes in 1 min. intervals

Relevant Conversions Units:

- 1 CFS = 448.83 GPM
- 1 CFS = 723.94 AFA
- 448.83 GPM = 723.94 AFA

Well Diversion Rate (as measured during filed exam):

$$194 \text{ GPM} \left(\frac{723.94 \text{ AFA}}{448.83 \text{ GPM}} \right) = \boxed{313.0 \text{ AFA}}$$

Well Diversion Rate (Department standard):

$$4.5 \text{ AFA per acre} \times 10 \text{ acres} = \boxed{45.0 \text{ AFA}}$$

G. NARRATIVE/REMARKS/COMMENTSPOD & Water Deliver System

The Department permitted 67-15156 for two ground water PODs. Upon completion of the field exam, the applicant demonstrated both wells are used as permitted. The physical locations of the wells match the legal descriptions listed on the well logs and on permit no. 67-15156. Well 1 (D0073088) is in the far northwest corner of the applicant's property. Well 2 (D0073089) is located approximately 320 feet south and 165 feet east of Well 1. Groundwater pumped from Well 1 is pumped approximately 400 feet through an underground pipe to the sprinkler system connection point near Well 1.

Both wells connect to the sprinkler system through a Y-shaped connection made from PVC pipe. Both wells had lockable devices near the point of connection to the PVC connector.

POU & Sprinkler System:

The Department permitted 67-15156 for a 10-acre POU. Aerial imagery and field exam data show the application utilizes all 10 acres for irrigation purposes as described on permit no. 67-15156. Water is dispersed around the 10-acre irrigated plot through a hand move pipe sprinkler system.

Flow Rate & Volume:

The Department permitted 0.2 cfs for irrigation. Flow measurements taken during the field exam show the applicant can pump at a maximum average of 0.43 cfs. Therefore, the Department can license 67-15156 for the maximum 0.2 cfs permitted.

The Department's headgate volume for 10 acres of irrigation is 45.0 AFA. Flow measurements taken during the field exam show the applicant can pump at a maximum average of 313.0 AFA. Therefore, the department can license 67-15156 for the maximum 45.0 AFA Department standard.

Licensing Conditions:

- Condition 046 was removed from the permit per Department conditioning standards.
- Condition 121 was replaced with condition 131 per Department conditioning standards.
- Condition 26A has been deemed obsolete by the Department since the permitting of 67-15156 and has therefore been removed for licensing purposes.

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>
IRRIGATION	03/01 to 11/15	0.20 CFS	45.0 AF

Totals:

0.20 CFS

45.0 AF

2. Recommended Amendments

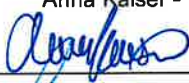
☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

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

I. AUTHENTICATION

Anna Kaiser -

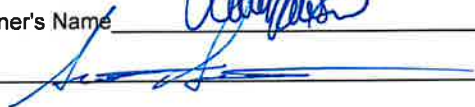
Field Examiner's Name



Date

4/22/2021

Reviewer



Date

11/23/2021



State of Idaho
Department of Water Resources

07-15156

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



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

0 0.04 0.08 0.16 Miles



IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

de
67

1. WELL TAG NO. D 0073089

Drilling Permit No. _____
Water right or injection well # 67-15156

2. OWNER:

Name William and Jacki Worthy
Address PO Box 155
City Payette State ID Zip 83661

3. WELL LOCATION:

Twp. 09 North ☒ or South ☐ Rge. 05 East ☐ or West ☒
Sec. 22 1/4 NE 1/4 SW 1/4

Gov't Lot _____ County Payette
Lat. 44 ° 6.004 (Deg. and Decimal minutes)
Long. 116 ° 55.656 (Deg. and Decimal minutes)
Address of Well Site 10660 N River Rd

City Payette

(Use at least name of road + distance to road or landmark)

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 Mud

7. SEALING PROCEDURES:

Seal material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method/procedure
Bentonite chip	0	18	1550#	temp casing

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing	Liner	Threaded	Welded
12	+2	38	.250	steel	☐	☐	☐	☒

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 38

9. PERFORATIONS/SCREENS:

Perforations ☒ Y ☐ N Method plasma single cut

Manufactured screen ☐ Y ☐ N Type _____

Method of installation lower into overbore

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
22	37	1/8-8	6	12	steel	.250

Length of Headpipe _____ Length of Tailpipe _____

Packer ☐ Y ☒ N Type _____

10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method
3/8-pea	18	38	1200#	pour in overbore
gravel				

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) 13 Static water level (ft) 13
Water temp. (°F) cold Bottom hole temp. (°F) cold

Describe access port steel plate cap

Well test:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)
33	190	2hrs

Test method:

Pump	Bailer	Air	Flowing artesian
☒	☐	☐	☐

Water quality test or comments: _____

13. LITHOLOGIC LOG and/or repairs or abandonment:

Bore Dia. (in)	From (ft)	To (ft)	Remarks, lithology or description of repairs or abandonment, water temp.	Water	
				Y	N
16	0	2	topsoil		X
16	2	5	hardpan		X
16	5	13	tan clay		X
16	13	37	gravel	X	
16	37	38	blue clay		X

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FEB 13 2017

WATER RESOURCES
WESTERN REGION

Completed Depth (Measurable): 38

Date Started: 2-1-17

Date Completed: 2-10-17

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 Bens Well Drilling and Repair Co. No. 753

*Principal Driller Ben/11 Ben Date 2-11-17

*Driller _____ Date _____

*Operator II _____ Date _____

Operator I _____ Date _____

* Signature of Principal Driller and rig operator are required.

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

1. WELL TAG NO. D 0073088

Drilling Permit No 97N520-880577
Water right or injection well # 67-15156

2. OWNER:

Name William and Jacki Worthy
Address P.O. Box 155
City Payette State ID Zip 83661

3. WELL LOCATION:

Twp. 09 North ☒ or South ☐ Rge. 05 East ☐ or West ☒
Sec. 22 1/4 NE 1/4 SW 1/4

Gov't Lot _____ County Payette
Lat. 44 ° 6.058 (Deg. and Decimal minutes)
Long. 116 ° 55.710 (Deg. and Decimal minutes)
Address of Well Site 10660 N. River Rd.
City Payette

(Give at least name of road - Distance to Road or Landmark)
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
bentonite	0	19	1950lbs	temp casing

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing	Liner	Threaded	Welded
10	+1.5	25	.250	steel	☒	☐	☐	☒

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 25

9. PERFORATIONS/SCREENS:

Perforations ☐ Y ☒ N Method _____

Manufactured screen ☒ Y ☐ N Type Johnson 8" pipe size

Method of installation pull back

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
25.5	35.5	20	NA	8	stainless	.250

Length of Headpipe 5ft Length of Tailpipe 3.5

Packer ☒ Y ☐ N Type 3lip 8X10

10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method
NO				

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) 20 Static water level (ft) 20

Water temp. (°F) cold Bottom hole temp. (°F) cold

Describe access port steel plate

Well test:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)
35	75GPM	6hrs

Test method:

Pump	Bailer	Air	Flowing artesian
☒	☐	☐	☐

Water quality test or comments: _____

13. LITHOLOGIC LOG and/or repairs or abandonment:

Bore Dia. (in)	From (ft)	To (ft)	Remarks, lithology or description of repairs or abandonment, water temp.	Water	
				Y	N
16	0	2	top soil		X
16	2	5	hardpan		X
16	5	10	sandy clay		X
16	10	19	gravel		X
10	19	28	sandy gravel	X	
10	28	35	fine sand with very little gravel	X	
10	35	39	blue clay		X

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OCT 26 2016

WATER RESOURCES
WESTERN REGION

Completed Depth (Measurable): 39

Date Started: Oct 12 2016

Date Completed: Oct 17 2016

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 Bens Well Drilling and Repair Co. No. 753

*Principal Driller Bert McLean Date Oct 24 2016

*Driller _____ Date _____

*Operator II _____ Date _____

Operator I _____ Date _____

* Signature of Principal Driller and rig operator are required.

BENEFICIAL USE FIELD EXAM ATTACHMENT I: FLOW MEASUREMENTS

MEASURE TIME		Volume (Gal/Min)
1	11:20	202.1
2	11:21	205.7
3	11:22	178.2
4	11:23	186.3
5	11:24	174.9
6	11:25	206.8
7	11:26	195.4
8	11:27	192.3
9	11:28	207.1
10	11:29	195.6
11	11:30	194.1
AVERAGE		<i>194.4090909</i>

BENEFICIAL USE FIELD EXAM ATTACHMENT II: EXAM PHOTOS







