

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-10749

Exam Date: 6/9/2017

1. Current Owner:
JOHN WHEELER PO BOX 454 ATHOL ID 83801 (208) 683-5626

2. Accompanied by: John Wheeler

3. **SOURCE:**
GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: Recommendation 95-11827 (Domestic)
2. Other water rights with the same point-of-diversion: None

C. DIVERSION AND DELIVERY SYSTEM1. **LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER NW¼SE¼ Sec. 11, Twp 53N, Rge 03W, B.M. KOOTENAI County

Method of Determination: Maps and GPS. POD location at 116° 39.905, 47° 57.242 (D0033431) given IDWR tag A0015427

2.

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
53N	03W	11									0.1					4.1			4.2

Total Acres: 4.2

Method of Determination: Google Earth, Arcmap, Sentinel, and Landsat

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.

X Indicate weir size/pipe as applicable.X 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
D0033431	FRANKLIN	5			

*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
5 GALLON BUCKET						

2. Measurements: 5 GALLON BUCKET TEST

5 GALLONS FILLED IN 11 SECONDS

5 GAL / 11 SEC X 60 SEC = 27.3 GPM OR 0.06 CFS

E. FLOW CALCULATIONSMeasured Method: THEORETICAL PUMING EQUATION
ATTACHED.X Additional Computation Sheets Attached

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 4.2 \text{ AC} \times 3.0 \text{ AF} = 12.6 \text{ AF}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.06 \text{ CFS} \times 214 \times 1.9835 = 25.5 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 12.6 \text{ AF}$$

2. Volume Calculations for Other Uses: N/A

G. NARRATIVE/REMARKS/COMMENTS

Field exam with applicant, John Wheeler showed a well for the irrigation of 4.2 acres. Well had tag D0033431 and was given IDWR GPS tag A0015427. When shape was attached during licensing, the centroid well location was moved and attached to the water right POD. 5 gallon bucket test was performed and filled in 11 seconds which is equal to 27 gpm or 0.06 cfs. Theoretical pumping equation is also attached as conformation of 5 gallon bucket test.

Applicant had large area of grass, garden, and shrubs covered by automatic sprinklers. During licensing, the area was measured using Arcmap and determined to be 4.2 acres of irrigation. Applicant stated he 250 sprinklers and 21 stations. During the exam, the applicant stated he irrigated all 10 acres of his land. During license review, no evidence could be found of irrigation on the rest of the property. Arcmap, Google Earth, Sentinel, and Landsat were reviewed for any evidence of irrigation and could not be found. License will be issued for a diversion rate of 0.06 cfs with an annual volume of 12.6 af. During license review it was found the season of use on the permit was incorrect and changed to show proper season of use.

Overlap review found a domestic recommendation 95-11827 on the property from a separate well. Because adjudication recommendations do not have an irrigation limitation, condition X35 will be put on license limiting diversion rate to 0.10 cfs and the irrigation to 4.2 acre when combined. Condition X59 was put on to identify the point of diversion and place of use being in a subdivision. Condition R62 was changed to R66 because the irrigation was less than 5 acres. Conditions 174, 01R, and 175 were added to license because the well is located in the Rathdrum Prairie Aquifer.

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

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	04/01 to 10/31	0.06 CFS	12.6 AF
	<u>Totals:</u>	0.060 CFS	12.60 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

Field Examiner's Name Adam Fink Date 11/8/2017

Reviewer Douglas Jones P.E. No. Reg. Mgr. Date 11/24/17

THEORETICAL PUMPING EQUATION FOR WATER RIGHT 95-10749

Theoretical pumping equation attached as additional conformation of 5 gallon bucket test. Pump was set at 485 feet and running at 40 psi.

PUMP EQUATIONS WATER RIGHT No.						
				95- 10749		
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/H	5	577.517	0.8	485	40
Q =		0.061 cfs	27.4 gpm			

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:	:

1. WELL TAG NO. D0033431

Drilling Permit No: 810 894
Other IDWR No. _____

2. OWNER

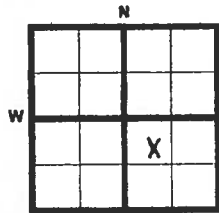
Name Wheeler Sr., John & Carol

Address PO Box 1288

City Hayden State ID Zip 8383

3. LOCATION OF WELL by legal description

sketch map location must agree with written location



Twp. 53 ☒ North or ☐ South
Rge. 3 ☐ East or ☒ West
Sec. 11 1/4 NW 1/4 SE 1/4

Gov't Lot _____ County KOOTENAI

Lat: : : Long: : :

Address of Well Site Scout Trail Rd off of R
City Athol

(Give at least name of road + Distance to Road or Landmark)

Lt. 5 Blk. _____ Sub. Name Bing Haven Est

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	550 lbs	Overbore

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	500	.250	Steel	☒	☐	☒	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

☐ Perforations Method _____
☐ Screens Screen Type _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

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

11. WELL TESTS:

☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
30	100	500 FEET	3HRS

Water Temp. COLD Bottom Hole Temp COLD

Water Quality test or comments: BROWNISH/LI

Depth first Water encountered 415

12. LITHOLOGIC LOG:(Describe repairs or abandonment)

Bore Diam	From	To	Remarks: Lithology, Water Quality, Temperature	Water	
				Y	N
8	0	3	TOP SOIL	☐	☒
8	3	115	SAND & GRAVEL 3/4 MINUS	☐	☒
8	115	124	COBBLE & BOULDER, GRAVEL	☐	☒
8	125	260	SAND & GRAVEL	☐	☒
8	260	400	SAND, GRAVEL W/COBBLES, AC	☐	☒
8	400	423	BOULDERS STACKED, SOME WA	☒	☐
8	423	465	CLAY GRAY	☐	☒
8	465	500	SAND & GRAVEL W/WATER APX	☒	☐

RECEIVED

MAR 17 2004

IDWR/North

Completed Depth 500 (Measurable)
Date: Started 2/25/04 Completed 2/27/04

13. DRILLER'S CERTIFICATION

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

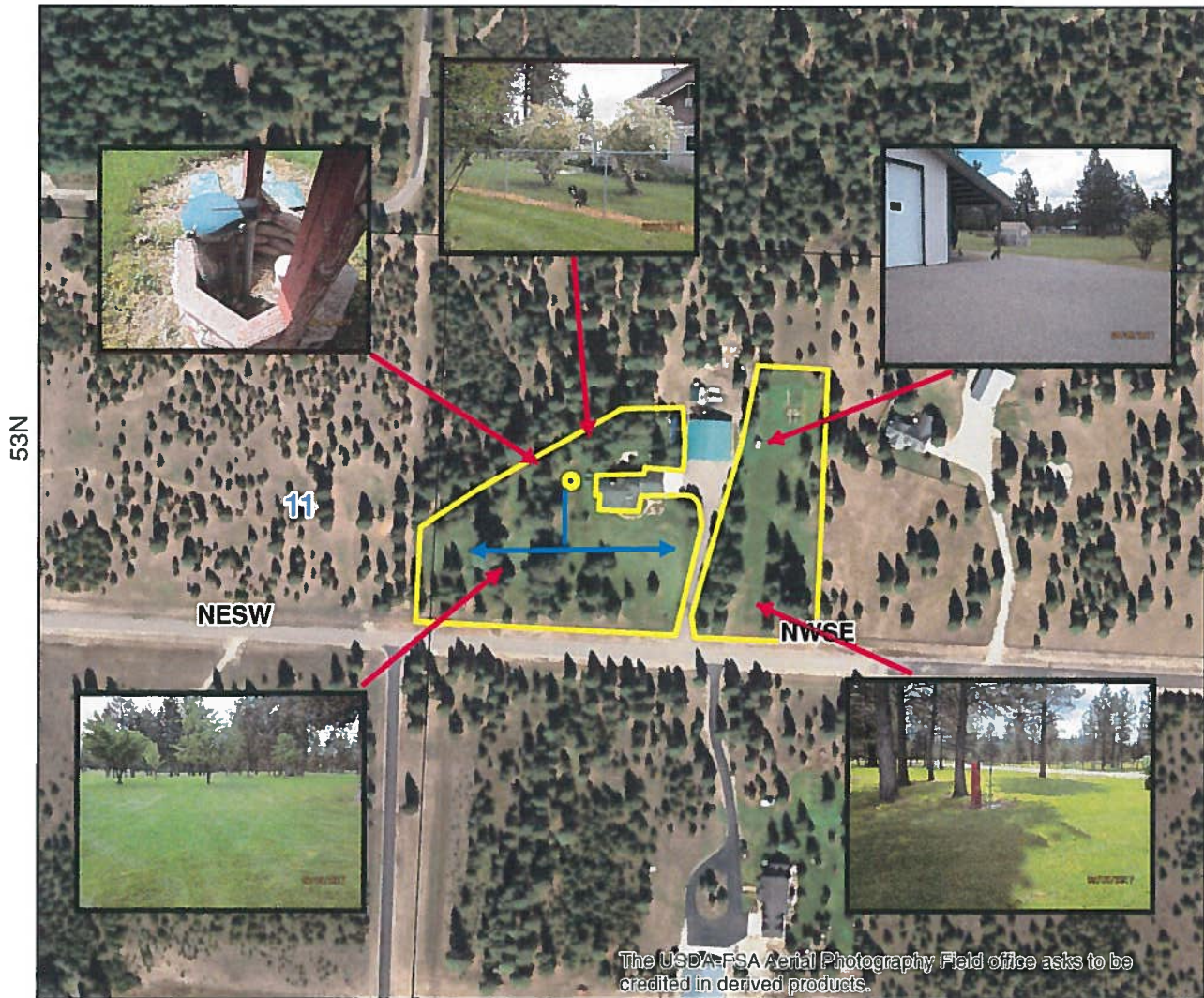
Firm Name H2O WellService, Inc. Firm No. 448
Firm Official [Signature] Date 03/02/04
and [Signature]
Supervisor or Operator [Signature] Date 03/01/04
Louie Hanner (Sign Once if Firm Official and Operator)

53N 3W 11

State of Idaho
Department of Water Resources
Attachment to Field Exam
95-10749

IRRIGATION / SYSTEM DIAGRAM

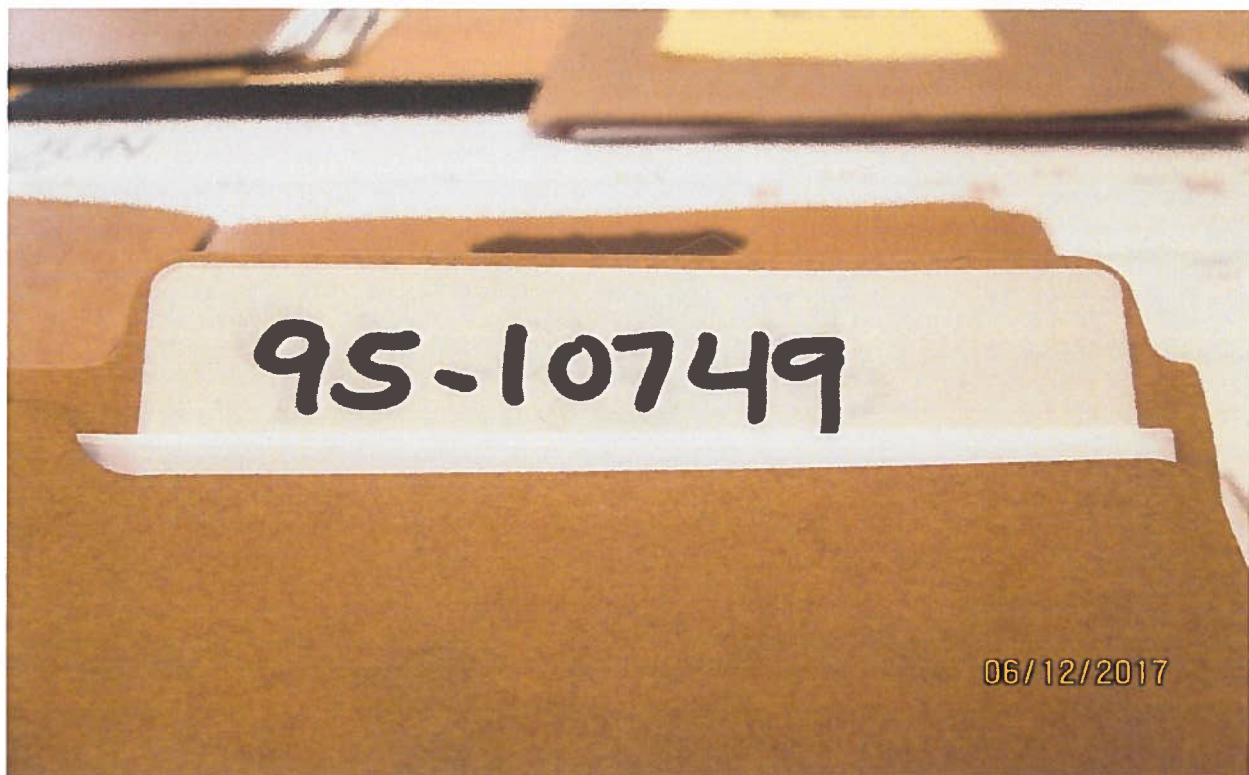
03W



0 0.035 0.07 0.14 Miles

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





POD, well tag D0033431 and given IDWR tag A0015427



Well ID tag D0033431.



5 gallon bucket test performed in 11 seconds which is equal to 27 gpm or 0.06 cfs.



Place of use.





Place of use.





Place of use.





Place of use.





Place of use.

