

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 67-15136

Exam Date: 6/8/20

1. Current Owner:

MIKE STANTON 11585 HWY 95 PAYETTE ID 83661

SABRINA STANTON 11585 HWY 95 PAYETTE ID 83661

SOURCE:

GROUND WATER

Method of Determination: Permit application and confirmed with well logs associated with property.**B. OVERLAP REVIEW**1. Other water rights with the same place of use: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
65-2923E	FALL CREEK	IRRIGATION	LICENSE

Comments: Overlap review depicts Lower Payette Ditch Company and Lake Reservoir Company as the irrigation companies that serve municipal and irrigation water rights within the same qq. Applied for and permitted as primary groundwater use.

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

Water Right No.	Source	Purpose of Use	Basis
N/A	N/A	N/A	N/A

Comments: No overlapping POD water rights.

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

GROUND WATER NE¼ SW¼, Sec. 11, Twp 09N, Rge 05W, B.M. PAYETTE County

GROUND WATER NE¼ SW¼, Sec. 11, Twp 09N, Rge 05W, B.M. PAYETTE County

Method of Determination: Permit application, suggested 2 wells drilled in 2002 and 2015. 2 well logs found with 11585 Hwy 95 addresses.

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	11									4.0								4.0

Total Acres: 5.0

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	
09N	05W	11									X								

Method of Determination: Permit application, ArcMap, aerial imagery, and USGS topography.

3.

☒ 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.

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

☐ 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
25573	N/A	1	N/A	GOULD	185B10412L
0069083	N/A				

D. FLOW MEASUREMENTS

Measurements: In office exam so flow measurements not applicable.

E. FLOW CALCULATIONS

$$Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$$

Domestic Theoretical Flow

Pump Horsepower 1
Pumping Level 50
Discharge Pressure 50
Rate of Flow (cfs) 0.04 cfs

Irrigation Theoretical Flow

Pump Horsepower 1.5
Pumping Level 20
Discharge Pressure 40
Rate of Flow (cfs) 0.10 cfs

Irrigation Permit: 0.12 cfs
Theoretical Rate 0.10 cfs
B.U. Standard Allowance: 0.03 cfs x 4.0 ac= 0.12 cfs

Irrigation Recommendation 0.10 cfs

Domestic Permit 0.04 cfs
Theoretical Rate 0.04 cfs
Admin Memo #22 Domestic Recommendation 0.04 cfs
B.U. Proof Fee: \$50 → 0.00 cfs to 0.20 cfs

Domestic Recommendation 0.04 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = (4 \text{ Acres}) \times (4.5 \text{ afa}) = 18 \text{ af}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = (0.10 \text{ cfs}) \times (260) \times 1.9835 = 51.8 \text{ af}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 18 \text{ af}$$

2. Volume for other uses

Admin memo #22 recommends 0.6 AF for in home use.

G. NARRATIVE/REMARKS/COMMENTS

The field exam was conducted in-office June 3, 2020 by Kate Huelse.

The permit was assigned to Mike and Sabrina Stanton on July 1, 2010. The proof of beneficial use was submitted May 20, 2020 by Mike Stanton. Current Payette county taxlot data represent Mike and Sabrina Stanton as the owners of the land pertinent to the place of use and point of diversion.

Overlap review found additional water rights for the POU with Lower Payette Ditch Company and Lake Reservoir Company, however the Stantons do not receive shares from either irrigation district. POD overlap found no other existing rights associated.

Per the water permit application, the Stantons had an existing domestic well and purposed to drill an irrigation well as they were unable to obtain any water from the irrigation district. Ground water for domestic purposes comes from a well drilled in 2002 with a 1 HP pump capable of 18 GPM. The irrigation well was drilled in 2015 by Dallas Drilling and Pump. The irrigation well has a 1.5 horsepower pump, as clarified by Mr. Stanton over the phone on June 8th, 2020. Theoretical flow calculations further prove the irrigation well is capable of producing 0.10 cfs.

The irrigation and domestic well log give the legal description and the GPS coordinates in Degrees-Minutes-Seconds, both of these methods place the well in Section 34, Township 09 North, Range 05 West, SW 1/4, NE 1/4. As stated in the application, the system diverts water using a 1 hp pump to the home and an irrigation sprinkler system and the irrigation well is to irrigate 4 acres of crop. The rate at which the domestic system is required to divert water is 0.04 cfs, the theoretical flow rate is calculated to be 0.04 cfs and the pump test recorded on well log suggests the system is capable of 50 gpm. The rate at which the irrigation pump is required to divert water to irrigate 4 acres is 0.12 cfs, the theoretical flow rate is calculated to be 0.10 cfs. The original permit allowed for the irrigation of 4 acres and a maximum diversion rate of 0.12 cfs, the total rate of diversion for which the proof was submitted was 0.12 cfs. The total diversion rate I have recommended for this license is 0.14 cfs, which seems reasonable as both systems are capable of producing up to 0.14 cfs.

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>
IRRIGATION	03/01 to 11/15	0.08 CFS	18.0 AF
DOMESTIC	01/01 to 12/31	0.04 CFS	0.6 AF

Totals: 0.12 CFS 18.6 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 Kate Hulse - Water Resource Agent

Field Examiner's Name Kate Hulse Date 6/18/20

Reviewer Paula Wiley Date 6-18-2020

State of Idaho
Department of Water Resources
Beneficial Use Exam Map
67-15136

This map depicts the DOMESTIC 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.

05W



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

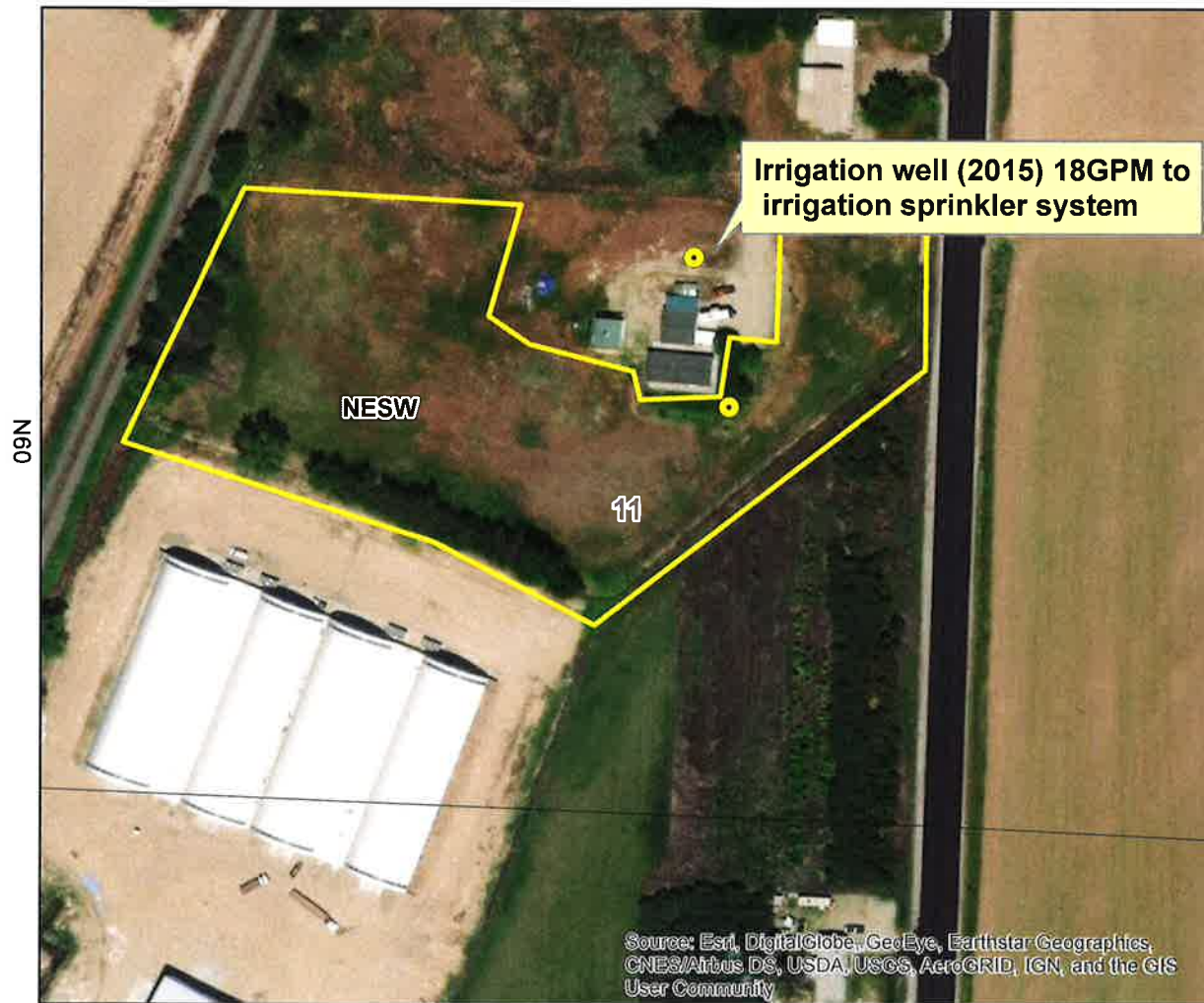
0 0.0075 0.015 0.03 Miles



State of Idaho
Department of Water Resources
Beneficial Use Exam Map
67-15136

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.

05W



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

0 0.0225 0.045 0.09 Miles



THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 67-15136
 Reviewer: Kate Huelse
 Date of Review: 6/2/2020

P/D No.:	Scenario 1	Scenario 2	Scenario 3
PUMP HORSEPOWER	1.5	1.5	1.5
BOOSTER HORSEPOWER	0	0	0
PUMPING LEVEL	20	20	20
DISCHARGE PRESSURE	30	40	50
RATE OF FLOW (cfs)	0.10	0.08	0.07 0.08

The above calculates the formula =
$$Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$$

Assumptions: %70 efficiency
 No Friction

Examiners Notes:

Lift was determined using well logs and speaking with Mr. Stanton. A range of discharge pressures were used under what we would expect to see from irrigation tanks (40-60 psi). Theoretical average flow rate is 0.09 cfs.

THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 67-15136
 Reviewer: Kate Huelse
 Date of Review: 6/2/2020

P/D No.:	Scenario 1	Scenario 2	Scenario 3
PUMP HORSEPOWER	1	1	1
BOOSTER HORSEPOWER	0	0	0
PUMPING LEVEL	50	50	50
DISCHARGE PRESSURE	40	50	60
RATE OF FLOW (cfs)	0.04	0.04	0.03 0.04

The above calculates the formula =
$$Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$$

Assumptions: %70 efficiency.
 No Friction

Examiners Notes:

A range of small hp pumps were assumed given this is for domestic use and the requested diversion rate is relatively small. Lift was measured using the DRG map. A range of discharge pressures were used under what we would expect to see from in home domestic tanks (40-60 psi). Theoretical average flow rate is 0.04 cfs.



IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

1. WELL TAG NO. D 25573
DRILLING PERMIT NO. _____
Other IDWR No. _____

2. OWNER: Jim White
Name 1585 Hwy 95
Address Payette State ID Zip 83664
City

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

N
W
E
S

Twp. 9 North ☒ or South ☐
Rge. 5 East ☐ or West ☒
Sec. 11
Gov't Lot _____ County Payette
Lat: _____ Long: _____
Address of Well Site same 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	18	450	Pour

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

Was drive shoe seal tested? ☒ Y ☐ N How? air

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6" +2	38	250		Steel	☒	☐	☒	☐
4 1/2	25	105		PVC	☐	☒	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

Perforations

Method

Screens

Screen Type PVC

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
105	125	.020		4 1/2	PVC	☐	☒

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

7 ft. below ground Artesian pressure _____ lb.
Depth flow encountered 115-125 ft. Describe access port or control devices: well cap

Office Use Only

Inspected by _____
Twp _____ Rge _____ Sec _____
1/4 _____ 1/4 _____ 1/4 _____
Lat: _____ Long: _____

11. WELL TESTS:

☐ Pump ☐ Bailor

☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
50	100	100	1 hr.

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encounter 16

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Water

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
10 0	4		Top Soil		
10 4	16		Brown clay		
10 16	18		Gravel		
6 18	25		Gravel		
6 25	115		Blue clay		
6 115	125		Blue clay w/ cracks		

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SEP 24 2002

WATER RESOURCES
WESTERN REGION

Completed _____ Depth 124' (Measurable)
Date: Started 9/10/02 Completed 9/12/02

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 George Post Well Drilling Firm No. 503

Firm Official [Signature] Date 9-13-02

and

Driller or Operator _____ Date _____

(Sign once if Firm Official & Operator)

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

1. WELL TAG NO. D 0069083

Drilling Permit No. 969076-875133

Water right or injection well # 67-14530

2. OWNER:

Name Mike and Sabrina Stanton

Address 11585 Hwy 95

City Payette State Id Zip 83661

3. WELL LOCATION:

Twp. 9 North ☒ or South ☐ Rge. 5 East ☐ or West ☒

Sec. 11 1/4 ne 1/4 SW 1/4

Gov't Lot _____ County Payette

Lat. 44 ° 07.797 (Deg. and Decimal minutes)

Long. 116 ° 54.251 (Deg. and Decimal minutes)

Address of Well Site 11585 Hwy 95 Payette

City _____

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	18	550	Temp Casing

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing Liner	Threaded	Welded
6	2	25	.250	Steel	☒	☐	☒

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

9. PERFORATIONS/SCREENS:

Perforations ☒ Y ☐ N Method Torch

Manufactured screen ☐ Y ☒ N Type _____

Method of installation _____

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
21	25	3/16	34	6	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
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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) 15 Static water level (ft) 7

Water temp. (°F) 60 Bottom hole temp. (°F) _____

Describe access port _____

Well test:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)
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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
10	0	7	Brown Clay		
10	7	15	Brown Silt		
10	15	18	Sand and Gravel	X	
6	18	25	Sand and Gravel	X	
6	25	33	Blue Clay		

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JUN 22 2015

WATER RESOURCES
WESTERN REGION

Completed Depth (Measurable): 28

Date Started: May 13, 2015

Date Completed: May 13, 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 Dallas Drilling & Pump

Co. No. 445

*Principal Driller [Signature]

Date May 28, 2015

*Driller _____

Date _____

*Operator II _____

Date _____

Operator I _____

Date _____

* Signature of Principal Driller and rig operator are required.

MEMORANDUM

TO: Water Right File No. 63-34605
FROM: Aaron Skinner – Water Resource Agent, Sr.
DATE: February 21, 2019
SUBJECT: Rate Calculations and Justifications

This memorandum documents permitting recommendations associated to the beneficial uses applied for by application no. 63-34605 – Paradise Home Owners Association, Inc. Ground water above Lucky Peak at any depth is tributary to the Boise River. Since the Boise River is fully appropriated, multiple domestic uses must be limited such that they do not exceed the exempt domestic use as defined in 42-111.

Domestic use is outlined for 70 homes/cabins. According to Administrator's Memorandum # 22, the standard use for 70 homes is 0.38 cfs. Also, $0.5 \text{ acres} \times 70 \text{ homes} = 35 \text{ acres} \times 0.02 \text{ cfs} = 0.7 \text{ cfs}$ for lawns + 0.38 cfs = 1.08 cfs could be justified as proposed. Unfortunately, there are two wells that supply the domestic use that have a capacity of 49.5 gpm. Therefore, an instantaneous rate for the domestic use will be limited to 0.11 cfs as there is no proposal to upgrade the system.

Commercial use is outlined for a lodge and pool area. The application suggested a rate of 0.06 cfs and 3,600 gallons per day, but will be limited to 0.04 cfs and 2,500 gallons per day as described in Title 42-111(b).

The domestic system (two wells) runs to a 48,000 gallon holding tank and is a component of the diversion system. Therefore, uses do not need to be described as storage.