

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
BENEFICIAL USE FIELD REPORT

**A. GENERAL INFORMATION**

Permit No: 63-33802  
Exam Date: 8/23/2019

1. Current Owner:  
MARK SKINNER 211 9TH AVE S NAMPA ID 83651

2. Accompanied by: Mark Skinner  
Phone No: (208)353-5840  
Address: 211 9<sup>th</sup> Ave S, Nampa, ID  
Relationship to permit Holder: Same

3. **SOURCE:**  
GROUND WATER

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

**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
63-31238	Groundwater	Irrigation	License
Boise-Kuna Irrigation District	Boise River	Irrigation	Decreed

Comments: 63-31238 was formerly a single 40 acre parcel of land under the ownership of Tony & Bonnie Hanson but has since been split into four separate parcels. 63-33802 received a permit in 2013 for supplemental groundwater. There is no record of a transfer or split in the water the original water right license though the permit was approved.

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: None

**C. DIVERSION AND DELIVERY SYSTEM**1. **LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER L2 ( SW $\frac{1}{4}$  NW $\frac{1}{4}$ ), Sec. 31, Twp 02N, Rge 01W, B.M. CANYON County

Method of Determination: Field examination, Garmin Handheld GPS, and ArcMap tools with aerial imagery.

**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	
02N	01W	31							17.5										17.5

Total Acres: 17.5

**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	
02N	01W	31							X										

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

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.  
 Y 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  
 Y 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
D0064613	Franklin 6" submersible	10		Franklin 180STS10D5A	180 GPM

**D. FLOW MEASUREMENTS**

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Ultrasonic Flow Meter	Clamp On	GE	PT878	GA1620004		4/1/2019

2. Measurements: Measurement taken at center of exposed 4" diameter stand pipe

**E. FLOW CALCULATIONS**

\_\_\_\_\_ Additional Computation Sheets Attached

Measured Method: Data collected from ultrasonic flow meter GE Panametrics PT878.

Pipe Diameter: 4"

Time	Q (gpm)	Q (ft <sup>3</sup> /s)	V (ft/s)
13:46	201.8	0.450	5.97

Theoretical calculation:

Open discharge from well into cylindrical CMP bubbler tank with 10 hp pump set estimated at 190 feet.

$$(8.8) \times (10 \text{ hp}) \times 0.70 / 190 = 0.320 \text{ cfs or } 145.5 \text{ gpm}$$

**F. VOLUME CALCULATIONS**

1. Volume Calculations for irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = (18 \text{ acres}) \times (4.5 \text{ af}) = 81 \text{ af}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = (0.45 \text{ cfs}) \times (260 \text{ days}) \times 1.9835 = 231.87 \text{ af}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 81 \text{ af}$$

## 2. Volume Calculations for Other Uses:

**G. NARRATIVE/REMARKS/COMMENTS**

A field exam was conducted by WRA Allen Bradbury and accompanied by Mark Skinner on August 23, 2019. Current Canyon County taxlot data represents that the permit holder, Mark J. Skinner, owns the land pertinent to the Place of Use (POU) and Point of Diversion (POD) in Lot 2 SWNW Sec. 31 T02N R01W.

The well was finished on July 28, 2013 with a completed depth of 212 feet by Can-Ada Well Drilling and Pump under drilling permit #963223-869282. The well tag# is D0064613. The pump was set at a depth of 190 to 200 feet by the landowner.

The system consists of a 10 hp Franklin 230v single phase motor pumping water from the well to the SE for 300 feet. Finally, a 4-inch pipe delivers open discharge water into a 5 foot diameter CMP bubbler screen. Surface water is delivered through a pipeline from the canal going along the southern boundary of the property. The permit holder state that he receives 18 inches (0.36 cfs) of surface water from the Boise-Kuna Irrigation District. When I arrived surface water was being pumped by a booster pump to two wheeline running 36 sprinkler heads with 9/64 inch nozzles. There are four wheelines consisting of two with 8 heads, one with 12 heads, and one with 24 heads. The sprinklers are on 40 foot spacing's with 60 foot moves. Currently, the entire 18 acres are utilized to grow a crop of alfalfa hay.

Domestic use is part of this permit. During the exam, it was noted that there are two pumps and two pitless adapters in the well. A working spigot was present near the well head and the steel frame of a building was constructed, stub outs for plumbing fixtures were visible inside the building.

Overlap review found surface water delivery for irrigation from Boise-Kuna Irrigation District that covers the extent of the property and therefore also cover the same 18 acres as water right permit 63-33802. Water right 63-33802 should hence remain conditioned as supplemental groundwater. Overlap analysis of the POD did not find any overlap.

After my arrival, the landowner turned off the surface water supply and turned on the well pump. A valve on the end of the stand pipe supplying water into the tank was fully opened. The GE Panametric PT878 Ultrasonic Flow Meter was attached near the bottom of the 4-inch stand pipe. The device registered a flow of 0.45 cfs or 201.8 gpm. As a result, and backed by the measured rate and theoretical rate calculated during the exam, I am recommending a license for the rate of 0.39 cfs including 0.35 cfs for irrigation and 0.04 cfs for domestic uses.

The POU was determined using aerial photography. The permit authorized the irrigation of 18 acres and proof of beneficial use was submitted on October 29, 2018. Aerial photography and field observation corroborated that the supplemental well water could be delivered to 18.0 acres. Review of 2013 through 2017 aerial imagery shows continual irrigation of the 18.0 acre POU during the beneficial use period and the amount of area irrigated has remained the same until present. It was noted during the exam that approximately 1.5 acres between the legal boundary of the property and the canal on the southern end of the property is also irrigated by the wheelines. This property was not included in the original POU for the supplemental groundwater, however is part of the Boise-Kuna surface water. During licensing the POU was modified to reflect the unirrigated driveway and building footprints in the SWNW of section 31. The 1.5 acres of land currently belongs to a neighbor, however as per phone conversation on 2/14/20, Mr. Skinner will no longer irrigate this parcel as the owner is planning to plant a different crop, therefore, I am recommending the a license for a 17.5 acre POU.

Conditions 046 and 26A were removed as per department licensing standards. Condition 121 was updated to 103. Condition WB7 was added to account for supplemental irrigation. Condition 943 replaced conditions 065 and 105.

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>	
IRRIGATION	03/01 to 11/15	0.35 CFS	
DOMESTIC	01/01 to 12/31	0.04 CFS	

**Totals:** 0.39 CFS

**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 12/30/19

Reviewer Patricia Wiley      Date 12-30-2019

**BENEFICIAL USE FIELD REPORT CALCULATIONS**

**Permit #:** 63-33802  
**Owner:** Mark Skinner

**Proof Due:** 11/1/2018  
**Priority Date:** 7/2/2013

**Proof Subm:** 10/29/2018  
**Exam Date:** 8/23/2019

**Flow Rate** 0.21 to 1.00  
**Fee Rate** 0.40  
**Exam Fee** \$100.00

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

**Drill Date** 7/28/2013 **Well Depth:** 212 ft  
Domestic

**Pump Set:** 200 ft  
*permit holder statement*

	cfs	gpm
<b>Application Rate</b>	0.40	179.53
<b>Permit Rate</b>	0.40	179.53
<b>Proof Report</b>	0.40	179.53
Irrig. Only	0.36	161.58
Stockwater		0.00
Domestic	0.04	17.95

<b>Acres Proposed:</b>	18.0
<b>Acres Permitted:</b>	18.0
<b>Acres Developed:</b>	18.0

**FLOW CALCULATIONS**

**Meter Type:** GE Panametric  
**Meter Reading** 201.80 gpm  
0.450 cfs

Nozzle Size	9/64
Input # heads:	36
Input gpm/head	3.74
<b>gpm/line</b>	134.6
<b>cfs/line</b>	0.30

**Theoretical Method**

Est. Pump Set	200 minus 10' =	190			
<b>HP =</b>	<b>E =</b>	<b>H =</b>	<b>PSI =</b>	<b>Q =</b>	<b>Q =</b>
10.0	70.0%	190	0	0.32	145.52
				cfs	gpm

TDH = [ (LIFT) + (PSI X 2.31) ]

<b>TDH =</b>	<b>Lift =</b>	<b>PSI =</b>	2.31
190.0	190	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 X 2.31) ]

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

Q = rate of flow in cubic feet per second,

<b>Consumptive Use</b>	4.5	<b>Headgate Requirement</b>	4.5		
<b>Season of Use</b>	3/1	11/15	=	260	days
					63-33802
Volume (VIR)	18.0	X	4.5	=	81.0 af
Volume (DR)	0.360	x	260	x	1.9835 = 185.66 af
BU Standard Rate	18.0	X	0.02	=	0.36 cfs
Rate/acre	0.360	/	18.0	=	0.020 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)

0.40 Permit Rate – the rate applied for

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

0.36 Beneficial Use (BU) standard = x.x ac \* 0.020 cfs/acre

0.45 Measured Value – the value measured in the field

0.32 Theoretical Rate - the rate calculated

Recommending a license for the beneficial use rate of 0.36 cfs for 18.0 acres.

Right No. 63-33802

## Beneficial Use Field Report

WRA Allen Bradbury

### System Design



### Legend

63-33802\_NewPOU

Contours

0 0.015 0.03 0.06 Miles

### Pumping Capacity

10 HP Franklin STS 180 gpm submersible turbine pump set @ 190 ft with open discharge into bubbler.

Pump Equation:  $(8.8) \times (10) \times (0.7) / (190 + (2.31 \times 0))$   
 $Q = 0.32 \text{ cfs or } 145.52 \text{ gpm.}$

Panametric Transport PT878 Flow meter measurement of 201.8 gpm or 0.45 cfs

BU Standard  $(18.0 \text{ acres} \times 0.02 \text{ cfs/acre}) = 0.36 \text{ cfs for irrigation}$



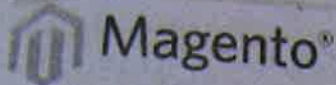
## 63-33802 Skinner Overlap Analysis

Process	Basin Sequence	Draft	Owner	Source	POD	Use	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	NWSW	SESW	NESW	SWSW	NWSW	SESW	NESW	SWSE	SESE	Total Acres
Water Permit	63-33802	N	SKINNER, MARK	GROUND WATER	POU	IRRIGATION							18										18
Water Right	63-136	N	BARKER ROSHOLT & SIMPSON LLP; BOISE PROJECT BOARD OF CONTROL; GIN	BOISE RIVER	POU	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Water Right	63-137B	N	BARKER ROSHOLT & SIMPSON LLP; BOISE PROJECT BOARD OF CONTROL; GIN	BOISE RIVER	POU	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Water Right	63-200A	N	BARKER ROSHOLT & SIMPSON LLP; BOISE PROJECT BOARD OF CONTROL; GIN	BOISE RIVER	POU	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Water Right	63-233K	N	AMERICAN DITCH CO; BARKER ROSHOLT & SIMPSON LLP; BOISE PROJECT BO	BOISE RIVER	POU	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Water Right	63-2388A	N	UNITED STATES OF AMERICA ACTING THROUGH	BOISE RIVER	POU	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Water Right	63-251A	N	UNITED STATES OF AMERICA ACTING THROUGH	BOISE RIVER	POU	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Water Right	63-26671	N	BARKER ROSHOLT & SIMPSON LLP; BOISE KUNA IRRIGATION DISTRICT; FRED	BOISE RIVER	POU	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Water Right	63-301A	N	UNITED STATES OF AMERICA ACTING THROUGH	BOISE RIVER	POU	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Water Right	63-302A	N	UNITED STATES OF AMERICA ACTING THROUGH	BOISE RIVER	POU	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Water Right	63-372	N	BARKER ROSHOLT & SIMPSON LLP; BOISE KUNA IRRIGATION DISTRICT; FRED	BOISE RIVER	POU	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Water Right	63-373A	N	UNITED STATES OF AMERICA ACTING THROUGH	BOISE RIVER	POU	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Water Right	63-2106	N	UNITED STATES OF AMERICA ACTING THROUGH	FIVEMILE CREEK	POU	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Water Right	63-33251	N	BOISE PROJECT BOARD OF CONTROL	INDIAN CREEK	POU	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Water Right	63-33253	N	BOISE PROJECT BOARD OF CONTROL	TENMILE CREEK	POU	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Water Right	63-2392F	N	BOISE PROJECT BOARD OF CONTROL	WASTE WATER	POU	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Water Right	63-11094	N	LOWE, DERALD W	GROUND WATER	POU	IRRIGATION																	
Water Right	63-11525	N	AMERICAN HARVEST LLC; D L EVANS BANK; WELCH, ERLENE; WELCH, L WAY	GROUND WATER	POU	IRRIGATION								31			29			25	27	23.3	
Water Right	63-11739	N	WILLIAM R BLATTNER FAMILY LTD PARTNERSHIP	GROUND WATER	POU	IRRIGATION	36	39	38	34												60	
Water Right	63-11940	N	BLATTNER, CHARLENE; BLATTNER, ROSS; THE WILLIAM & NORMA BLATTNER	GROUND WATER	POU	IRRIGATION										37			38		34	147	
Water Right	63-31238	N	HANSON, BONNIE; HANSON, TONY	GROUND WATER	POU	IRRIGATION					20											109	
Water Right	63-3280	N	THORNTON, LAVAR	GROUND WATER	POU	IRRIGATION											22.5					22.5	
Water Right	63-3368	N	THORNTON, LAVAR	GROUND WATER	POU	IRRIGATION											22.5					22.5	
Water Right	63-7933	N	THORNTON, LAVAR	GROUND WATER	POU	IRRIGATION											22.5					22.5	

Surface water overlapping water permit

9/19/2018

Print Order # 100000104



Order #100000104

Order Date: September 19, 2018

**Shipping Address**

Mark Skinner  
211 9th Ave S.  
Nampa, Idaho, 83651  
United States  
T: 208-353-5840

**Shipping Method**

United Parcel Service - Ground

**Billing Address**

Mark Skinner  
211 9th Ave S.  
Nampa, Idaho, 83651  
United States  
T: 208-353-5840

**Payment Method**

**Credit Card**

**Credit Card Type:** Visa

**Credit Card Number:** [REDACTED]

**Processed Amount:** \$3,143.63

**Items Ordered**

PRODUCT NAME	SKU	PRICE	QTY	SUBTOT
Franklin 2261128020 6" Submersible Sand Fighter Motor 10 HP 230V Single Phase	2261128020	\$1,360.04	Ordered: 1	\$1,360.04
Franklin 180STS10D5A-0564 #97050180105 180GPM Submersible Turbine Pump 10HP 6" Motor Required	97050180105	\$1,506.45	Ordered: 1	\$1,506.45
Subtotal				\$2,866.49
Shipping & Handling				\$277.14
<b>Grand Total</b>				<b>\$3,143.63</b>

08/23/2019 14:33

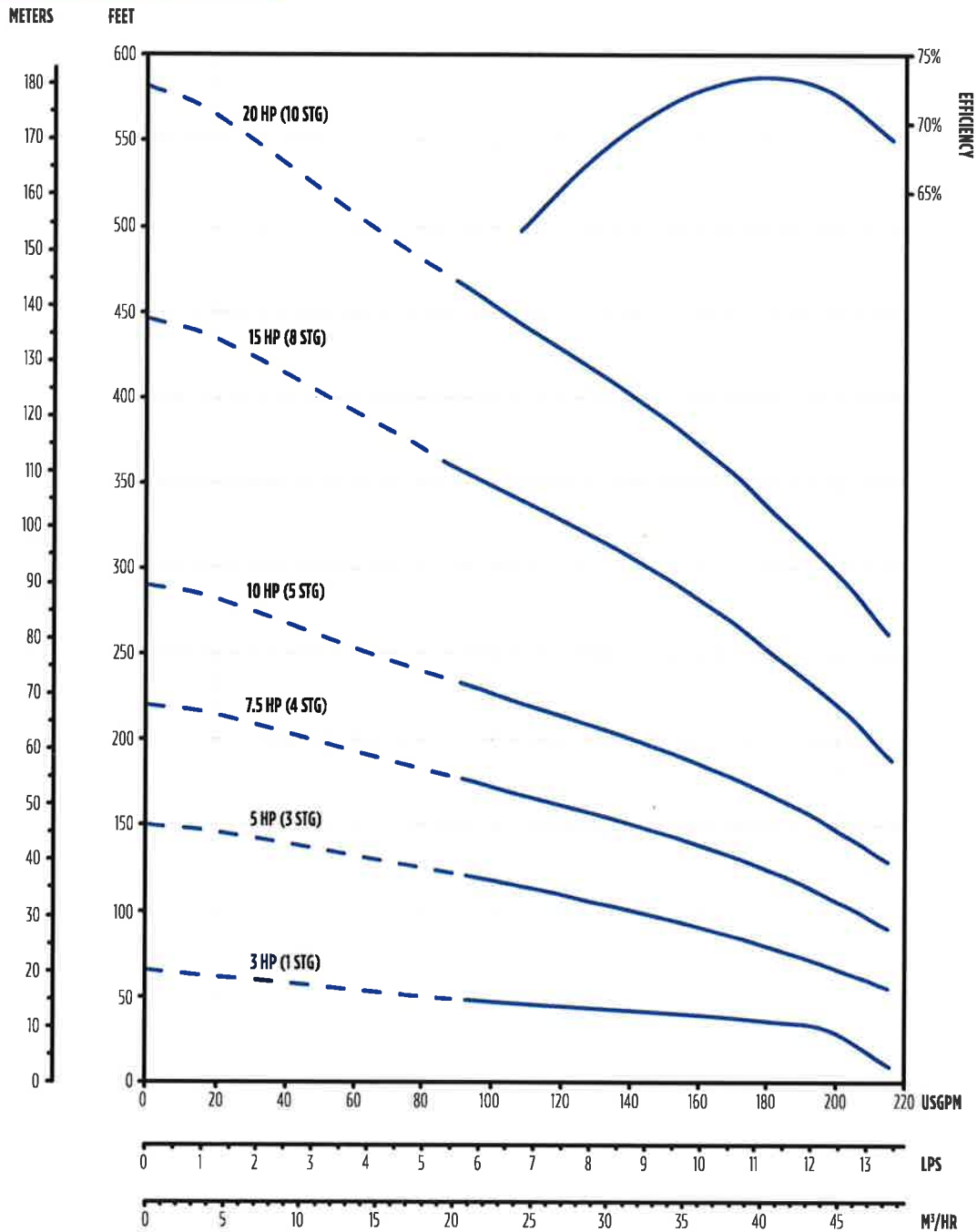


# SUBMERSIBLE TURBINE PUMPS

5" STS SERIES - 180 GPM



## PERFORMANCE



— RECOMMENDED OPERATING RANGE

NOTE: Performance based on 68 °F fresh water; 6" 5-40 hp motor at 3450 rpm



**Figure 1.** Well head with two sets of electrical wire going to irrigation pump and to domestic pump.



**Figure 2.** CMP bubbler, supply pipe from pump, control panel and booster pump from bubbler.

8/23/2019  
8/8/2018

Field Exam 63-33802

WRA Allen Bradbury

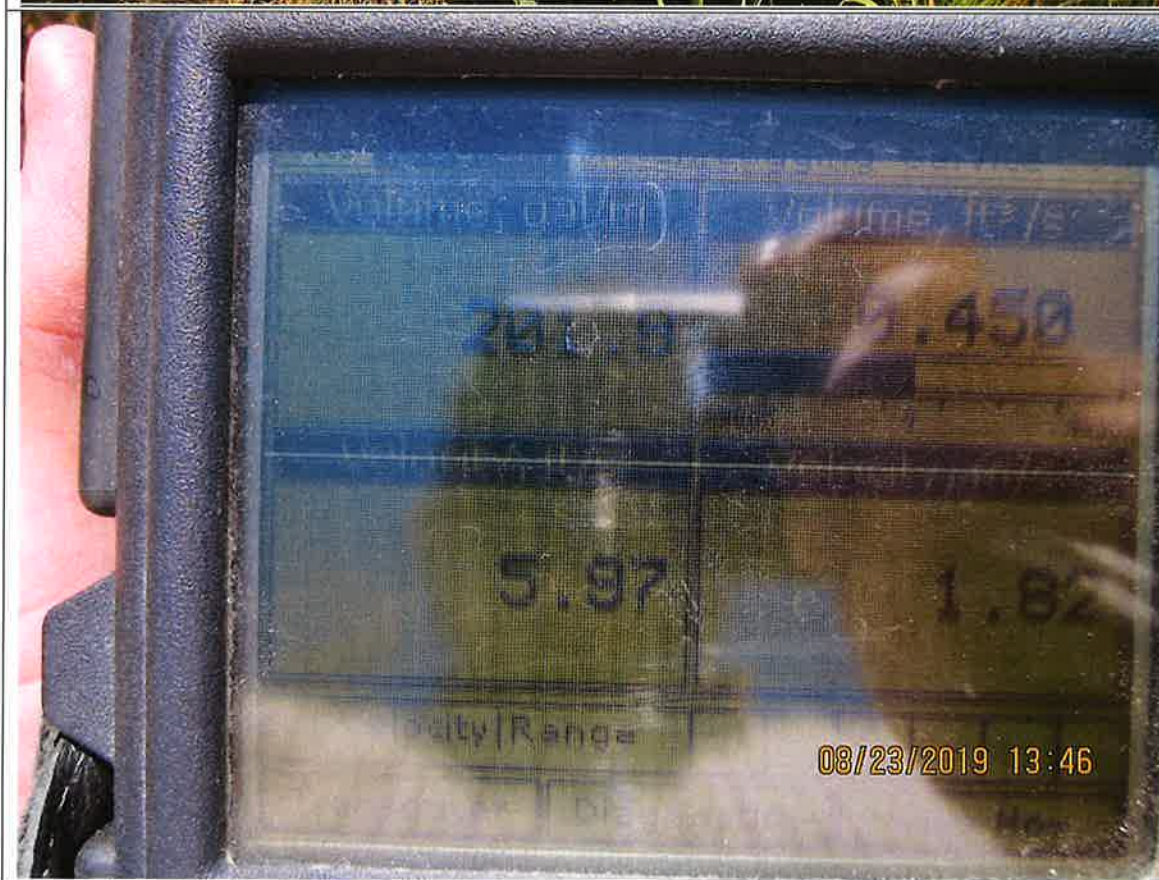








**Figure 5.** Bubbler receiving well water from source pipe with Panametrics transducers attached.



**Figure 6.** Panametric flow meter reading 201.8 gpm or 0.45 cfs.





**Figure 7.** Pressure gage after booster pump reading about 38 psi.



**Figure 8.** Looking south west at 18 acre of alfalfa hay irrigated by wheelines.

9/23/2019  
~~8/8/2018~~

Field Exam 63-33802

WRA Allen Bradbury





**Figure 9.** Looking west along aluminum mainline at attached wheeline running 24 heads.



**Figure 10.** Shop structure with plumbing in place for domestic water.



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: [www.idwr.idaho.gov](http://www.idwr.idaho.gov)

Brad Little  
Governor

Gary Spackman  
Director

December 5, 2019

MARK SKINNER  
211 9TH AVE S  
NAMPA ID 83651

RE: Water Right Permit No. 63-33802

Dear Permit Holder:

The Department of Water Resources is reviewing the permit referenced above prior to issuing water right license. By issuing a license, the Department confirms the extent of development that has been established in compliance with the terms of the permit.

The examiner who verified your water use reported that certain elements of the permit have been developed differently than described on your permit. Changes that do not increase the authorized use of water under the permit can be requested and approved in accordance with Idaho Code § 42-211. Before a license can be issued, your permit must be amended to depict your water use as it was actually developed. Based on the examiner's report, the **place of use** was developed differently than described on your permit.

The enclosed Application for Amendment form depicts the elements of the water right as they will appear on the license when issued. Please review the amendment form carefully. If you concur with the information presented, please sign and return the form with the filing fee of \$100.00 within **fourteen (14) days**.

If you have any questions, please call me at (208) 334-2190.

Sincerely,

Allen Bradbury  
Water Resource Agent, Senior

Enclosure: Application for Amendment



Form 238-7  
6/07

IDAHO DEPARTMENT OF WATER RESOURCES  
WELL DRILLER'S REPORT

1. WELL TAG NO. D 0064613

Drilling Permit No. 923223-819282  
Water right or injection well # \_\_\_\_\_

2. OWNER

Name Skinner, Mark  
Address 211 9th Ave. South  
City Nampa State ID Zip 83651

3. WELL LOCATION:

Twp. 2 North ☒ or South ☐ Rge. 1 East ☐ or West ☒  
Sec. 31 1/4 SW 1/4 NW 1/4

Gov't Lot 2 County Canyon  
Lat. 43 ° 28.170 (Deg. and Decimal minutes)  
Long 116 ° 30.580 (Deg. and Decimal minutes)  
Address of Well Site 625' E of S. Happy Valley Rd. Down Gravel Rd.

City Kuna  
(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 check all that apply (Replacement etc.)

☒ 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 <sup>3</sup> )	Placement method/procedure
Med Chips	0	58	1750 lbs.	Poured

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing	Liner	Threaded	Welded
8"	+2	58	.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) 58'

9. PERFORATIONS/SCREENS:

Perforations ☐ Y ☒ N Method \_\_\_\_\_

Manufactured screen ☐ Y ☒ N Type \_\_\_\_\_

Method of installation \_\_\_\_\_

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule

Length of Headpipe \_\_\_\_\_ Length of Tailpipe \_\_\_\_\_

Packer ☐ Y ☒ N Type \_\_\_\_\_

10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft <sup>3</sup> )	Placement method

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) 112' Static water level (ft) 112'  
Water temp (°F) no return Bottom hole temp. (°F) no return  
Describe access port Sanitary Well Cap

Well test:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)
No Return	No Return	60

Test method:

Pump ☐ Bailor ☐ 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
15	0	2	Top Soil		X
15	2	5	Hard Pan		X
15	5	15	Broken rock & Clay		X
12	15	50	Lava Rock		X
12	50	53	Broken Lava		X
12	53	58	Red Cinders		X
8	58	112	Lava		X
8	112	113	Crack	X	
8	113	118	Lava		X
8	118	125	Loose Lava	X	
8	125	160	Lava		X
8	160	162	Crack in Lava	X	
8	162	190	Lava		X
8	190	192	Crack in Lava	X	
8	192	212	Lava		X
8	212		Gravel	X	

RECEIVED

AUG 21 2013

WATER RESOURCES  
WESTERN REGION

Completed Depth (Measurable) 212"

Date Started 7/22/2013 Completed 7/28/2013

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 Can-Ada Well Drilling & Pump Co. No. 304

\*Principal Driller Earl Skinner Date 8/16/2013

\*Driller \_\_\_\_\_ Date \_\_\_\_\_

\*Operator II Brad Skinner Date 8/16/2013

Operator I \_\_\_\_\_ Date \_\_\_\_\_

\* Signature of Principal Driller and rig operator are required