

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-31589

Exam Date: 9/16/2013

1. Current Owner: HUNTER ACRES HOME OWNERS ASSOC
14466 BIGHORN DR
NAMPA ID 83651
2. Accompanied by: BLAKE SLATER
Phone No:
Address:
Relationship to Permit Holder: BOARD SECRETARY

3. SOURCE TRIBUTARY
GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: NONE
2. Other water rights with the same point of diversion: NONE

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

GROUND WATER L3 NW1/4SW1/4 Sec. 19, Twp 03N, Rge 02W, B.M.
CANYON County

Method of Determination: GARMIN 76 GPS N 43.58135, W -116.63242

2.

PLACE OF USE: DOMESTIC

TwpRge Sec	NE				NW				SW				SE				Totals
03N02W 19	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
									X								
									L 3								

Method of Determination:

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.

<u>Well or Diversion</u>					<u>Pump Serial No. or Discharge</u>
<u>ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No</u>	<u>Pump Make</u>	<u>Size</u>
Well	unknown	3 [domestic] 5 [irrigation]	unknown	unknown	

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

<u>Measurement</u>						
<u>Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>

2. Measurements: none taken

E. FLOW CALCULATIONS _____ Additional Computation Sheets Attached

[1] THEORETICAL CALCULATIONS:

DOMESTIC PUMP : 3 hp, 70% efficiency, assume 40 psi for domestic, Z = pump set at 60 feet – 15 = 45 feet

$$8.8 \times .7 \times 3 / 45 + [30 \times 2.31] = 18.48 / 114.3 = 0.16 \text{ cfs}$$

IRRIGATION PUMP: 5 hp, 70% efficiency, assume 50 psi for irrigation, Z = pump set at 80 feet – 15 = 65 feet

$$8.8 \times .7 \times 5 / 65 + [50 \times 2.31] = 30.8 / 180.5 = 0.17 \text{ cfs}$$

$$\text{TOTAL SYSTEM} = 0.16 + 0.17 = 0.33 \text{ CFS}$$

[2] FLOW BASED ON IDWR STANDARD: 9 homes, internal use = 0.14 cfs. Irrigation component of domestic is 9 homes x 0.5 acre per homes x 0.03 cfs per acre for irrigation < 5 acres = 0.135 cfs. TOTAL = 0.14 + 0.135 = 0.275 = 0.28 cfs

Measured Method:

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: not a separate use

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = .28 \times 365 \times 1.9835 = 202.7$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 10.8$$

2. Volume Calculations for Other Uses: Domestic. IDWR standard for home that includes up to 0.5 acres for irrigation is 1.2 af per year.

$$9 \text{ homes} \times 1.2 = 10.8 \text{ af}$$

G. NARRATIVE/REMARKS/COMMENTS

The permit was issued for 0.28 cfs for domestic use in 9 homes, including up to ^{0.5}~~0.05~~ acre for irrigation per household in the Hunters Acres Subdivision. The source is a well that is 12 inches in diameter, and fitted with 2 pumps, a 3 hp for the internal domestic use, and a 5 hp for the irrigation use. I was accompanied on the field exam by Blake Slater, the homeowners' association board secretary. The permit was issued in the name of the Hales, and an assignment of permit was recently processed. Mr. Slater provided information regarding the pumps and system that he obtained from the Adamsons, but he did not obtain pump and motor makes or serial numbers.

The well is located on property that was originally planned to be common area, but the property was purchased by the Slaters. There are 7 homes in the subdivision, and 2 bare lots. The utilities, including the water, are stubbed in on these lots. These undeveloped lots have not been irrigated. There are no common areas. There is a 2" steel pipe from the 3 hp pump to the internal domestic water system, and a 2" steel pipe from the 5 hp pump to the underground sprinkler system.

Theoretical calculations resulted in a diversion rate of 0.13 cfs from the domestic pump and 0.17 cfs from the irrigation pump for a total diversion rate of 0.33 cfs. The IDWR reference sheet, the domestic use curve indicates that the diversion rate needed for internal use in 9 homes is 0.14 cfs. IDWR standard for irrigation, 0.5 acres per household x 9 homes x 0.03 cfs = 0.135. Adding 0.135 + 0.14 = 0.278 = 0.28, the permitted quantity, and the quantity recommended for licensing. Volume recommended for licensing is 10.8, the lesser of the Vir and Vdr calculations, and the standard volume for 9 homes.

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

H. RECOMMENDATIONS

- 1) Permit amount 0.28 cfs
 2) Beneficial use limit 0.28 cfs
 3) System measurement 0.28 cfs
 4) Proof fee amount 1 cfs

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
DOMESTIC	01/01 to 12/31	0.280 CFS	10.80 AF
<u>Totals:</u>		0.280 CFS	10.80 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 ☐ Other

I. AUTHENTICATION

Field Examiner's Name Wing Umic Date 12-18-13
 Reviewer _____ Date _____



63-31589-- 2011 BING PHOTOGRAPHY -- Hunters Acres Subdivision. POU outlined in yellow. POD is the green point. Orange dotted lines are mainlines from the well for the irrigation and domestic systems.

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

Office Use Only

Well ID No. 7878.33

Inspected by _____

Twp _____ Rge _____ Sec _____

_____ 1/4 _____ 1/4 _____ 1/4

Lat: : : Long: : :

1. WELL TAG NO. D 0025869
 DRILLING PERMIT NO. 874174-787833
 Water Right or Injection Well No. _____

2. OWNER:
Name Gerald M + Sharon K Hale
Address 805 W Blaine
City Nampa State ID Zip 83651

3. LOCATION OF WELL by legal description:

You must provide address or Lot, Blk, Sub. or Directions to well.

Twp. 3 North ☒ or South ☐
Rge. 2 East ☐ or West ☒
Sec. 19 $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$
Gov't Lot _____
County Canyon $\frac{10}{100}$ acres $\frac{40}{100}$ acres $\frac{60}{100}$ acres
Lat. : : Long. : :
Address of Well Site Midway + Smi-

Address of Well Site Midway + Smith
 _____ City Nampa
 (Give at least name of road + Distance to Road or Landmark)
 Lt. _____ Blk. _____ Sub. Name Hunters Acres Sub

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 Material	From	To	Weight / Volume	Seal Placement Method
Dry brown 3/8" Bead	0	60	3200 lb	Pull 12" Castin + Tag Bottom

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 80"
Was drive shoe seal tested? ☐ Y ☒ N How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
8	12	80	32	Steel	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe 7 Length of Tailpipe 0
Packer ☒ Y ☐ N Type Figure 4 Double

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method _____
Screen Type & Method of Installation Pull Back

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
80	100	14		5"	SS	Screen	
						☐	☐
						☐	☐

10. FILTER PACK

Filler Material	From	To	Weight / Volume	Placement Method

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

10 ft. below ground Artesian pressure _____ lb.
Depth flow encountered _____ ft. Describe access port or control devices: well
Part on side of casing

12. WELL TESTS:

☐ Pump ☐ Baller ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
400	N/A	60	1/2 hr

Water Temp. 59° Bottom hole temp. N/A

Water Quality test or comments: Clear

Depth first Water Encounter 45

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Water

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
12	0	5	Heavy Clay Spil		X
12	5	17	Sandy Brn Clay		X
12	17	30	Brn Sticky Clay		X
12	30	41	Sandy Brn Clay		X
12	41	43	Hard Brn Clay		X
12	43	45	Sandy Brn Clay		X
12	45	46	Coarse Whit Sand	X	
12	46	50	Sandy Brn Clay		X
12	50	60	Sandy Brn Clay + Gravel		X
8	60	64	Coarse Sand	X	
8	64	100	Gravel	X	

RECEIVED

APR 25 2003

~~WATER RESOURCES~~
~~WESTERN REGION~~

Completed Depth 100 (Measurable)

Date: Started 3/17/03 Completed 3/21/03

14. DRILLER'S CERTIFICATION

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

Company Name DOMESTIC PUMP + DRILL Part No. 483

Principal Driller _____ Date _____
and
Driller or Operator in Charge _____ Date 4/1/03

Operator | _____ Date _____

Principal Driller and Rig Operator *Required*.
Operator I must have signature of Driller/Operator II.

information provided by Blake Slater,
MDA Secretary, during field exam.

Permit # 0029869

Drilled - 2003

Adams Pump & Drill

466-6439

Well - 12"

Depth - 100'

Static Water - 10'

Pumps - 400 gal/min

Pumps -

Size - 5 Horse - Houses

- 3 Horse - Irr.

Pumps set at

5 Horse - 80'

3 Horse - 60'

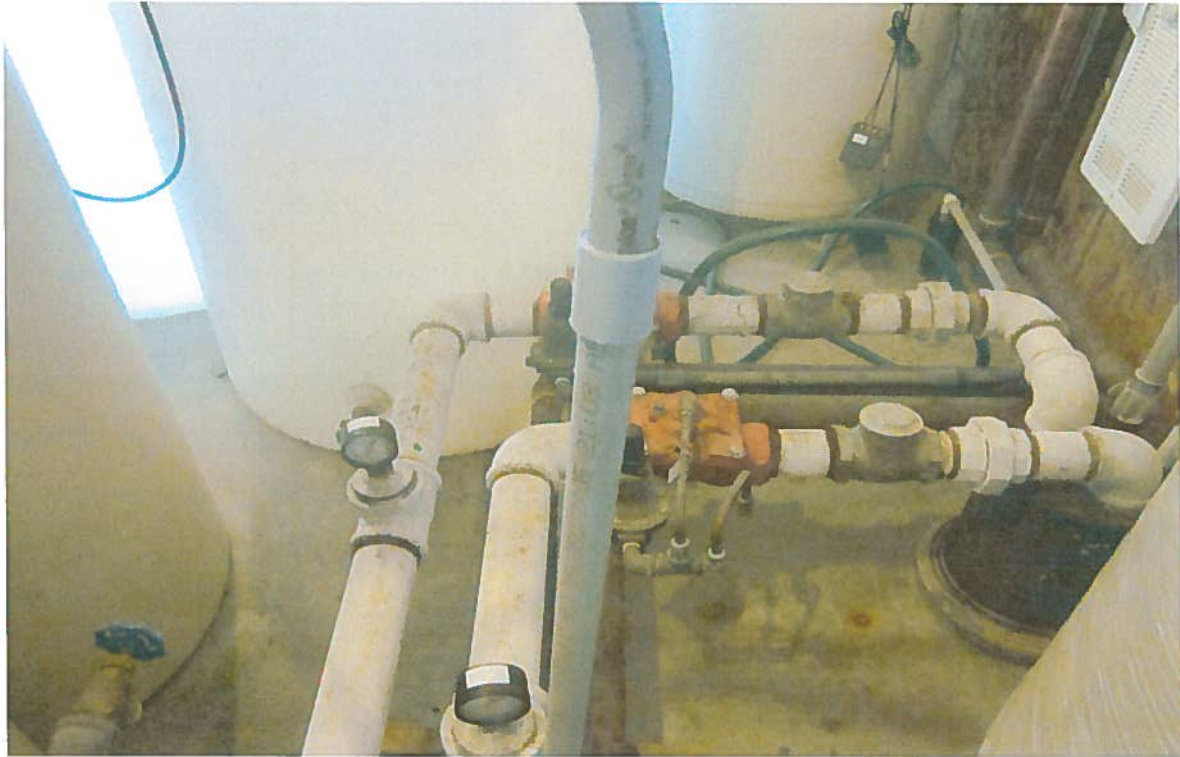
63-31589 – Hunters Acres subdivision field exam photographs



Pump house on Lot 1, Block 1.



Well, that is the POD, located inside of the pump house.



Well seen in right center.



Piping in front plumbed to sprinkler irrigation system. Domestic system piping seen in background.



POU - picture of one of the 7 homes constructed in the subdivision.



POU – two undeveloped lots at left are stubbed in.



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region • 2735 Airport Way • Boise, Idaho 83705-5082

Phone: (208) 334-2190 • Fax: (208) 334-2348 • Website: www.idwr.idaho.gov

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

August 27, 2013

SHARON and/or GERALD HALE
14466 BIGHORN DR
NAMPA, ID 83641

Re Permit To Appropriate Water No. 63-31589

Dear Sharon or Gerald Hale:

The permit referenced above was issued for domestic use in the Hunters Acres Subdivision from ground water. This letter is to request that you call me to schedule the field exam for this permit. A field exam is required by Idaho law before a license can be issued, at which time it becomes a water right. The license is the end product needed for continued water use.

Additionally, please have available at the exam someone familiar with the system and its construction, as well as the following documentation:

- 1 – pump and motor specs;
- 2 - the depth at which the pump is set; and,
- 3 – a pump curve.

Please call me as soon as possible at 208.334.2190, to set an appointment for the exam. Failure to respond to this letter request **by September 27, 2013**, may result in the permit being voided or a license issued for less than the permitted amount. Thank you.

Sincerely,

A handwritten signature in black ink, appearing to read 'Vicky Music'.

Vicky Music
Sr. Water Resource Agent



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Phone: (208) 334-2190 • Fax: (208) 334-2348 • Website: www.idwr.idaho.gov

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

October 22, 2013

BLAKE SLATER
14378 BIGHORN DR
NAMPA, ID 83641

Re Permit To Appropriate Water No. 63-31589

Dear Mr. Slater:

This letter is to follow up on the field exam of September 16, 2013. We discussed the need to change to ownership of the permit from the Hales to the homeowners' association. Enclosed is an assignment of permit form. Please submit it and the \$25 fee. This is the easiest way to change the ownership. The alternative is a change of water right ownership, after the license is issued, at which time the use becomes a water right. That process cost the same but required more paperwork.

Also, although the information you provided from the pump company was helpful, it was not complete. In my letter to the Hales, I requested pump curves and pump and motor specs. Please have the Adamson provide these to me directly. They can fax or email them to me. My email address is vicky.music@idwr.idaho.gov, and the fax number is provided above.

Please provide the requested information by November 5, 2013. Failure to provide the requested information may result in the permit being voided or a license issued for less than the permitted amount. Thank you.

Sincerely,

Vicky Music
Sr. Water Resource Agent

Enclosure: Assignment of Permit form