

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 47-8283
Exam Date: 5/10/2019

1. Current Owner:
KRISTEN A HOLT
AND/OR
RICH HOLT
33851 BLUE LANTERN ST
DANA POINT CA 92629
2. Accompanied by: Jamie Martin, property caretaker
Phone No: 208-539-0503
Address:
Relationship to permit Holder:

3. **SOURCE:**
GROUND WATER

Method of Determination: Site visit and ArcMap aerial imagery

B. OVERLAP REVIEW

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

Water Right No.	Source	Purpose of Use	Basis
37-4112 and 37-21595	Malad River	Irrigation	Decree
Shares of King Hill Irrigation District water			

Comments: Surface water shares in the King Hill Irrigation District

2. Other water rights with the same point-of-diversion: None

Water Right No.	Source	Purpose of Use	Basis

Comments: _____

C. DIVERSION AND DELIVERY SYSTEM

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

GROUND WATER NE¼ SW¼, Sec. 20, Twp 06S, Rge 13E, B.M. TWIN FALLS County

Method of Determination: Site visit, ArcMap 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	
06S	13E	20			7.1 L9					14.0	3.1					4.6 L6			28.8

Total Acres: 28.8

PLACE OF USE: RECREATION STORAGE

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
06S	13E	20			X L9					X									

Method of Determination: ArcMap aerial imagery and site visit

3.

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

X 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

X 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
A0009920 (IDWR site tag)(existing)		5	Flow is artesian, so pump is only used occasionally		2"

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Calculation	Result	Model No.	Serial No.	Size	Calib. Date
Bucket/stopwatch for cold portion	5 x 60/12.97	0.05 cfs				
Theoretical for warm portion	8.8 x 5 x 0.70/ 30 + (45 x 2.31)	0.23 cfs				

2. Measurements: A theoretical calculation was done for the warm water portion, as the representative of the permit holder said it had been pumped in the past. He gave the following parameters for the pumping: 5 HP pump, 2" inlet pipe set 30' down in the well. He noted that the sprinkler system normally ran at 45-50 psi. The theoretical calculation gave a flow from the warm portion of the well at 0.23 cfs (see attached sheet). The bucket and stopwatch test on the cold portion of the well yielded a flow of 0.05 cfs for a combined flow rate from the well of **0.28 cfs**.

X Additional Computation Sheets Attached

E. FLOW CALCULATIONS

Measured Method: See attached ground water theoretical analysis sheet for warm water flow. Formula for bucket test is:
 $\text{gpm} = 5 \times 60 / \text{seconds to fill 5 gallons}$. $5 \times 60 / 12.97 = 23.13 \text{ gpm} = 0.05 \text{ cfs}$

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 28.8 \times 4.0 = 115.2 \text{ AF}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.28 \times 246 \times 1.9835 = 136.6 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = \mathbf{115.2 \text{ AF}}$$

2. Volume Calculations for Other Uses: Pond volume was calculated from a surface area of 1.00 acre and the average depth of the ponds at approximately 2.0 feet for a volume of 2.00 AF = **2.0 AF**.

G. NARRATIVE/REMARKS/COMMENTS

The field exam for permit 47-8283 was completed on May 10, 2019 with property caretaker Jamie Martin representing the permit holders. Both warm and cold water flow from separate aquifers from a single well located approximately 350 feet southwest of the Holt residence. At the time of the exam, which was 27 years after Proof of Beneficial Use was filed, it appeared that artesian flow from the well had declined significantly, so the flow rate is being calculated using the ground water theoretical analysis. According to Jamie Martin, who oversees the property for the Holts, a pump had been used in the warm water portion of the well in the past. He indicated that the pump was a 5 HP unit, with the inlet set at a depth of 30 feet. He said that the pressure in the irrigation system usually ran at about 45-50 psi. This yields a theoretical flow of 0.23 cfs. A bucket and stopwatch test was performed on the cold water portion, which has never been pumped. That test showed a flow rate of 0.05 cfs for a total flow rate of 0.28 cfs.

The water is used for maintaining the reservoir levels, irrigating, or a combination of the two. Most of the irrigation on the property appears to be hand lines, but other methods, including flood, are used. Most of the waste water from the property sinks into the ground, but can occasionally make its way to the Snake River, which fronts the property. The majority of irrigation on the property is accomplished with water from the King Hill Irrigation District pipeline via gravity flow from the pipeline which runs above the property.

The permit will need to be amended as the well was drilled in the NESW of Section 20, T06S, R13E instead of the permitted SENW. In addition, the place of use will be amended as the NESW was not listed as part of the place of use, but is being irrigated. The place of use for the Recreation Storage was not shown on the permit, but was clearly intended from the application for permit, and it is listed as a use on the permit, so it is being restored on the water right license, though the Recreation Storage will be dropped from the NWSE (Lot 6) as no reservoir was developed in that QQ. Another change which is being made at licensing is a change to the irrigation season of use from the permitted season of use of 4/1 to 11/1 to the current season of use recognized by IDWR of 3/15 to 11/15.

Volume calculations for the irrigation portion of the license were calculated at 115.2 AF while the recreation storage portion is 2.0 acre feet for a total recommendation of 117.2 AF. A total flow rate of 0.28 cfs is recommended.

Have conditions of permit approval been met? X 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>
DIVERSION TO STORAGE	1/01 to 12/31	0.10 CFS	
IRRIGATION	3/15 to 11/15	0.28 CFS	115.2 AF
RECREATION STORAGE	1/01 to 12/31		2.0 AF
Totals:		0.28 CFS	117.2 AF

2. Recommended Amendments

 X Change P.D. as reflected above Add P.D. as reflected above None

 X Change P.U. as reflected above Add P.U. as reflected above None

I. AUTHENTICATION

Field Examiner's Name U. B. Singh Date 5/10/2019

Reviewer _____ Date _____



Point of diversion and associated plumbing inside well house.

Upper pond with Snake River in background.





Lower pond with Snake River behind.

Irrigated landscaping on Holt property.



47-8283 Holt



Irrigated landscaping and pasture on the Holt property.





Irrigated land on Holt property.



47-8283 Holt

Aerial Photo, System Diagram, and Water Right Map



Legend

- Township/Range
- Sections
- QQ

- Recreation Storage POU
- Irrigation POU



0 0.03 0.06 0.12 Miles

GROUNDWATER THEORETICAL ANALYSIS

FILE: Permit 47-8283, Holt

DATE: 5/13/19

BY: _____

THEORETICAL RATE OF FLOW: $Q = \frac{(8.8 \times (HP) \times (EFF.))}{TDH}$

Q = CFS

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)]

LIFT = Depth to water in FEET from land surface to pumping water level

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

(8.8) X (5.0) X (0.70) 30.800

[(30.0) + (45.0 X 2.31)] 133.950

Q = 0.230

LIFT FROM:

PSI FROM:

NOTES ON PUMP:

Measurement ☐

Owner ☒

Area estimate ☐

Well Logs ☐

Booster Y ☐ N ☒

Measurement ☐

Owner ☒

Estimate ☐

Owner Gage ☐

Motor Make, Serial or ID

Pump Make, Serial or ID, rating

REMARKS: _____

47-8283 HOLT

pg 1 of 3

RECEIVED

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

DEC 9 1992
USE TYPEWRITER OR
POINT PEN

WELL DRILLER'S REPORT

Department of Water Resources

State law requires that this report be filed with the Director, Department of Water Resources
within 30 days after the completion or abandonment of the well.

1. WELL OWNER Name <u>Snake River Farms</u> Address <u>P.O. Box 311 F. Ketchum</u> Drilling Permit No. <u>47-91-S-006</u> Water Right Permit No. <u>000003</u>	7. WATER LEVEL Static water level <u>0</u> feet below land surface. Flowing? ☒ Yes ☐ No G.P.M. flow <u>113</u> Artesian closed-in pressure <u>08-44</u> p.s.i. Controlled by: ☒ Valve ☐ Cap ☐ Plug Temperature <u>72.8</u>°F. Quality <u>Good</u> Describe artesian or temperature zones below.																																																																																																																																																																																																																																		
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Well diameter increase ☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)	8. WELL TEST DATA ☐ Pump ☐ Baller ☐ Air ☐ Other <u>stop watch to 6 gal/beat</u> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Discharge G.P.M.</th> <th>Pumping Level</th> <th>Hours Pumped</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	Discharge G.P.M.	Pumping Level	Hours Pumped																																																																																																																																																																																																																															
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3. PROPOSED USE ☐ Domestic ☒ Irrigation ☐ Test ☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection ☐ Other _____ (specify type)	9. LITHOLOGIC LOG <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Bore Diam.</th> <th colspan="2">Depth</th> <th rowspan="2">Material</th> <th colspan="2">Water</th> </tr> <tr> <th>From</th> <th>To</th> <th>Yes</th> <th>No</th> </tr> </thead> <tbody> <tr><td>16</td><td>0</td><td>68</td><td>Clay</td><td> </td><td> </td></tr> <tr><td> </td><td>68</td><td>70</td><td>Red Sand</td><td> </td><td> </td></tr> <tr><td> </td><td>70</td><td>80</td><td>Blk lava</td><td> </td><td> </td></tr> <tr><td> </td><td>80</td><td>136</td><td>Clay</td><td> </td><td> </td></tr> <tr><td> </td><td>136</td><td>144</td><td>Broken Blk lava / w Clay</td><td>X</td><td> </td></tr> <tr><td> </td><td>144</td><td>158</td><td>Blk lava</td><td> </td><td> </td></tr> <tr><td> </td><td>158</td><td>168</td><td>Cinders</td><td>X</td><td> </td></tr> <tr><td> </td><td>168</td><td>181</td><td>Blk lava</td><td> </td><td> </td></tr> <tr><td> </td><td>181</td><td>194</td><td>Clay</td><td> </td><td> </td></tr> <tr><td> </td><td>194</td><td>221</td><td>Blk lava w/ Tan Talc</td><td> </td><td> </td></tr> <tr><td> </td><td>221</td><td>236</td><td>Blk lava</td><td> </td><td> </td></tr> <tr><td>10</td><td>236</td><td>279</td><td>Blk lava / Tan Talc</td><td> </td><td> </td></tr> <tr><td> </td><td>279</td><td>302</td><td>Blk lava</td><td> </td><td> </td></tr> <tr><td> </td><td>302</td><td>309</td><td>Clay</td><td> </td><td> </td></tr> <tr><td> </td><td>309</td><td>338</td><td>Blk lava</td><td> </td><td> </td></tr> <tr><td> </td><td>338</td><td>360</td><td>Clay Blue</td><td> </td><td> </td></tr> <tr><td> </td><td>360</td><td>372</td><td>Blk lava w/ Grn Talc</td><td>X</td><td> </td></tr> <tr><td> </td><td>372</td><td>400</td><td>Blue Clay</td><td> </td><td> </td></tr> <tr><td> </td><td>400</td><td>420</td><td>Blue Clay w/ Brown lava</td><td> </td><td> </td></tr> <tr><td> </td><td>420</td><td>460</td><td>Blk lava</td><td> </td><td> </td></tr> <tr><td> </td><td>460</td><td>471</td><td>Porous Blk lava</td><td> </td><td> </td></tr> <tr><td> </td><td>471</td><td>490</td><td>Blk lava</td><td> </td><td> </td></tr> <tr><td> </td><td>490</td><td>520</td><td>Blue Shale</td><td> </td><td> </td></tr> <tr><td>8</td><td>520</td><td>560</td><td>Blk lava</td><td> </td><td> </td></tr> <tr><td> </td><td>560</td><td>620</td><td>Blk lava w/ Small Brks</td><td> </td><td> </td></tr> <tr><td> </td><td>620</td><td>630</td><td>Blue Clay</td><td> </td><td> </td></tr> <tr><td> </td><td>630</td><td>684</td><td>Brown Rock Hard</td><td> </td><td> </td></tr> <tr><td> </td><td>684</td><td>700</td><td>Brown Rock Soft</td><td> </td><td> </td></tr> <tr><td> </td><td>700</td><td>718</td><td>Blue Clay</td><td> </td><td> </td></tr> <tr><td> </td><td>718</td><td>720</td><td>Blk loose Rock</td><td> </td><td> </td></tr> <tr><td> </td><td>720</td><td>728</td><td>Blk Sand</td><td> </td><td> </td></tr> <tr><td> </td><td>728</td><td>740</td><td>Blk lava</td><td> </td><td> </td></tr> <tr><td> </td><td>740</td><td>761</td><td>Tan Clay</td><td> </td><td> </td></tr> <tr><td> </td><td>761</td><td>778</td><td>Blk lava</td><td> </td><td> </td></tr> <tr><td> </td><td>778</td><td>815</td><td>Blk lava w/ Sand & Clay</td><td> </td><td> </td></tr> <tr><td> </td><td>815</td><td>825</td><td>Blue Clay</td><td> </td><td> </td></tr> </tbody> </table>	Bore Diam.	Depth		Material	Water		From	To	Yes	No	16	0	68	Clay				68	70	Red Sand				70	80	Blk lava				80	136	Clay				136	144	Broken Blk lava / w Clay	X			144	158	Blk lava				158	168	Cinders	X			168	181	Blk lava				181	194	Clay				194	221	Blk lava w/ Tan Talc				221	236	Blk lava			10	236	279	Blk lava / Tan Talc				279	302	Blk lava				302	309	Clay				309	338	Blk lava				338	360	Clay Blue				360	372	Blk lava w/ Grn Talc	X			372	400	Blue Clay				400	420	Blue Clay w/ Brown lava				420	460	Blk lava				460	471	Porous Blk lava				471	490	Blk lava				490	520	Blue Shale			8	520	560	Blk lava				560	620	Blk lava w/ Small Brks				620	630	Blue Clay				630	684	Brown Rock Hard				684	700	Brown Rock Soft				700	718	Blue Clay				718	720	Blk loose Rock				720	728	Blk Sand				728	740	Blk lava				740	761	Tan Clay				761	778	Blk lava				778	815	Blk lava w/ Sand & Clay				815	825	Blue Clay		
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4. METHOD DRILLED ☒ Rotary ☒ Air ☐ Hydraulic ☐ Reverse rotary ☐ Cable ☐ Dug ☐ Other _____	10. Work started <u>Jan 6/92</u> finished <u>Oct. 7, 92</u>																																																																																																																																																																																																																																		
5. WELL CONSTRUCTION Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____ <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Thickness</th> <th>Diameter</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>250 inches</td> <td>16 inches</td> <td>0 feet</td> <td>70 feet</td> </tr> <tr> <td>250 inches</td> <td>10 inches</td> <td>2 feet</td> <td>180 feet</td> </tr> <tr> <td>250 inches</td> <td>6 inches</td> <td>4 feet</td> <td>501 feet</td> </tr> </tbody> </table> Was casing drive shoe used? ☒ Yes ☐ No <u>10"</u> Was a packer or seal used? ☐ Yes ☐ No Perforated? ☐ Yes ☒ No How perforated? ☐ Factory ☐ Knife ☐ Torch ☐ Gun Size of perforation _____ inches by _____ inches <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Number</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table> Well screen installed? ☐ Yes ☒ No Manufacturer's name _____ Type _____ Model No. _____ Diameter _____ Slot size _____ Set from _____ feet to _____ feet Diameter _____ Slot size _____ Set from _____ feet to _____ feet Gravel packed? ☐ Yes ☒ No ☐ Size of gravel _____ Placed from _____ feet to _____ feet Surface seal depth <u>180</u> Material used in seal: ☒ Cement grout ☐ Bentonite ☐ Pudding clay ☐ _____ Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing ☐ Overbore to seal depth Method of joining casing: ☐ Threaded ☒ Welded ☐ Solvent Weld ☐ Cemented between strata Describe access port <u>1 1/2" Pipe on Each Well Cap</u> <u>Welded Flanges used for Caps</u>	Thickness	Diameter	From	To	250 inches	16 inches	0 feet	70 feet	250 inches	10 inches	2 feet	180 feet	250 inches	6 inches	4 feet	501 feet	Number	From	To										11. DRILLERS CERTIFICATION I/We certify that all minimum well construction standards were complied with at the time the rig was removed. Firm Name <u>Eaton Drilling</u> Firm No. <u>26</u> Address <u>Wendell</u> Date <u>Nov. 4, 92</u> Signed by (Firm Official) <u>Larry Hinkley</u> and <u>Paul Carpenter</u> (Operator)																																																																																																																																																																																																						
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STATE OF IDAHO
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