



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

September 25, 2013

IVAN HOLTON
19611 NORTHSIDE BLVD
NAMPA, ID 83687

Re: Water Right Permit No. 63-11632

Dear Mr. Holton:

The permit referenced above was issued to your father, Harvey Holton, for ground water to supplement his surface water shares on approximately 144 acres. The property is now owned by Archie Yamamoto. I believe you spoke to water Resource Agent Kelly Christensen regarding this last year.

The most efficient way to correct the ownership is for the permittee, Harvey Holton, to execute an assignment of permit to Mr. Yamamoto, however, I understand that your father is in an assisted living facility, and you have power of attorney. In that case, will you please sign the enclosed assignment form, and have it notarized, and give it to Mr. Yamamoto, along with your power of attorney? Mr. Yamamoto has agreed to pay the \$25 assignment fee.

Please call me at 208.334.2190 if you have questions. Thank you for your attention to this matter.

Sincerely,



Vicky Music
Sr. Water Resource Agent

Enclosure: Assignment of Permit form

cc (without enclosure): Archie Yamamoto

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-11632

Exam Date: 9/19/2013

1. Current Owner: ARCHIE YAMAMOTO
8434 HWY 20-26
NAMPA ID 83651
(208)466-7192
2. Accompanied by: Archie Yamamoto
Phone No:
Address:
Relationship to Permit Holder: same

3. SOURCE TRIBUTARY
GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: Pioneer Irrigation District shares
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 NW1/4SW1/4 Sec. 27, Twp 04N, Rge 02W, B.M.
CANYON County

Method of Determination: Garmin 76 GPS: N 43.65392, W -116.56861

2.

PLACE OF USE: IRRIGATION

TwpRge Sec	NE				NW				SW				SE				Totals
	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
04N02W 27					2.0	34.0			37.0								73.0
04N02W 28	25.0			35.0													60.0

Total Acres: 133

Method of Determination: aerials

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>ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge</u> <u>Size</u>
Well	John Deere		T04039D351319	PTO – Rockford.	SN 836968
			OR	Hollowshaft geardrive rated at 90 hp.	SN is illegible
			4039DF001		

*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>
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2. Measurements: none taken

E. FLOW CALCULATIONS _____ Additional Computation Sheets Attached

[1] THEORETICAL CALCULATION : open discharge so 10 psi, 90 hp, Z = 75 feet assuming 25' static water level per the well log and 50' drawdown [estimate is arbitrary], 70% efficiency

$$8.8 \times 90 \times 0.7 / 75 + [2.31 \times 10 \text{ psi}] = 554.4 / 98.1 = 5.65 \text{ cfs}$$

[2] IDWR reference sheet "Expected flows for pipe diameters", flow through a 12" pipe is 3.93 cfs

[3] Using IDWR standard of 0.02 cfs per acre = 133 acres x 0.02 cfs = 2.66 cfs

Measured Method:

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 133 \text{ acres} \times 5.4 = 598.5 \text{ af}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 2.66 \text{ cfs} \times 260 \text{ days} \times 1.9835 = 1371.18 \text{ af}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 598.5 \text{ af}$$

2. Volume Calculations for Other Uses: NOT APPLICABLE

G. NARRATIVE/REMARKS/COMMENTS

The permit was originally in the name of Harvey Holton. An assignment of permit was processed, and the new permittee, Archie Yamamoto, accompanied me on the field exam. Mr. Yamamoto has farmed the property for many years and is very familiar with the system. The permit was issued for 144 acres and 2.88 cfs of ground water supplemental to Pioneer Irrigation District shares.

The POD is a 16" diameter well, 260 feet deep. No well tag was seen but the Department has the well log on file. Water is pumped from the well by a John Deere diesel driven power take off [PTO] and right angle drive

through a 12" pipe to a concrete ditch system that is also the ditch for the surface water. From the ditch system, the water irrigated the field via siphon tubes. Onions, corn and hay are grown on the property. Most of the crops had been harvested. The last of the onions were being harvested when the exam was being conducted. Mr. Yamamoto said that the well is used nearly every year to supplement surface water.

The permit authorized the development of 144 acres. However, after removing roads, houses, etc., I found that 133 acres were being irrigated and so I recommend 133 acres be licensed.

I calculated the diversion rate 3 ways. The theoretical resulted in a rate of 5.65 cfs; however, the pumping level and drawdown are unknown. The flow estimate using the IDWR reference sheet for pipe flows is 3.93 cfs for a 12" pipe. Calculating the diversion rate using the IDWR standard of 0.02 cfs/ acre yields a rate of 2.66 cfs. This is the lowest rate of the three calculations, and the rate I recommend for licensing.

I recommend an annual volume of 598.5 af, the lesser of the Vir and Vdr calculations.

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

Omit conditions 3 and 4 and add 01M.

H. RECOMMENDATIONS

- | | |
|-------------------------|-----------------|
| 1) Permit amount | <u>2.88</u> cfs |
| 2) Beneficial use limit | <u>2.66</u> cfs |
| 3) System measurement | <u>2.66</u> cfs |
| 4) Proof fee amount | <u>3</u> cfs |

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	03/01 to 11/15	2.660 CFS	598.50 AF
<u>Totals:</u>		2.660 CFS	598.50 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 Cusic Date 11-21-13

Reviewer _____ Date _____



STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

USE TYPEWRITER OR
BALLPOINT PEN

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>HARVEY HOLTON</u> Address <u>19595 NORTHSIDE BL. D Nampa 83687</u> Drilling Permit No. <u>63-92-W-120</u> Water Right Permit No. <u>63-11632</u>	7. WATER LEVEL Static water level <u>25</u> feet below land surface. Flowing? ☐ Yes ☐ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature _____ of. Quality _____ Describe artesian or temperature zones below																																																																																																																													
2. NATURE OF WORK <u>NEW WELL</u> ☐ New well ☐ Deepened ☐ Replacement ☐ Well diameter increase ☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)	8. WELL TEST DATA <u>NOT AVAILABLE</u> ☐ Pump ☐ Bailer ☐ Air ☐ Other _____ <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 <u>IRRIGATION</u> ☐ 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>Bore Diam.</th> <th>Depth from</th> <th>To</th> <th>Material</th> <th>Water Yes No</th> </tr> </thead> <tbody> <tr><td>28</td><td>0</td><td>7</td><td>topsoil</td><td>X</td></tr> <tr><td>1</td><td>11</td><td>13</td><td>FINE TO CRSE SAND</td><td>X</td></tr> <tr><td>11</td><td>13</td><td>16</td><td>HARDPAN W/ SAND STREAKS</td><td>X</td></tr> <tr><td>13</td><td>16</td><td>25</td><td>LITE BRN CLAY</td><td>X</td></tr> <tr><td>16</td><td>25</td><td>29</td><td>SAND GRAVEL ROCK</td><td>X</td></tr> <tr><td>25</td><td>29</td><td>35</td><td>FINE TO CRSE SAND</td><td>X</td></tr> <tr><td>29</td><td>35</td><td>38</td><td>SAND GRAVEL ROCK</td><td>X</td></tr> <tr><td>35</td><td>38</td><td>43</td><td>BRN CLAY</td><td>X</td></tr> <tr><td>38</td><td>43</td><td>48</td><td>FINE SAND</td><td>X</td></tr> <tr><td>43</td><td>48</td><td>52</td><td>BRN CLAY W/ SAND</td><td>X</td></tr> <tr><td>48</td><td>52</td><td>65</td><td>FINE TO CRSE SAND</td><td>X</td></tr> <tr><td>52</td><td>65</td><td>83</td><td>LITE BRN SANDY CLAY</td><td>X</td></tr> <tr><td>65</td><td>83</td><td>119</td><td>FINE TO MED SAND</td><td>X</td></tr> <tr><td>83</td><td>119</td><td>132</td><td>LITE BRN CLAY</td><td>X</td></tr> <tr><td>119</td><td>132</td><td>143</td><td>FINE TO CRSE SAND</td><td>X</td></tr> <tr><td>132</td><td>143</td><td>173</td><td>BRN CLAY</td><td>X</td></tr> <tr><td>143</td><td>173</td><td>177</td><td>FINE TO CRSE SAND</td><td>X</td></tr> <tr><td>173</td><td>177</td><td>192</td><td>BRN CLAY</td><td>X</td></tr> <tr><td>177</td><td>192</td><td>194</td><td>FINE TO CRSE SAND</td><td>X</td></tr> <tr><td>192</td><td>194</td><td>217</td><td>BRN CLAY</td><td>X</td></tr> <tr><td>194</td><td>217</td><td>223</td><td>FINE TO CRSE SAND</td><td>X</td></tr> <tr><td>217</td><td>223</td><td>249</td><td>BRN CLAY</td><td>X</td></tr> <tr><td>223</td><td>249</td><td>260</td><td>FINE TO CRSE SAND W/ MED GRAVEL</td><td>X</td></tr> <tr><td>249</td><td>260</td><td> </td><td>BRN CLAY</td><td>X</td></tr> </tbody> </table>	Bore Diam.	Depth from	To	Material	Water Yes No	28	0	7	topsoil	X	1	11	13	FINE TO CRSE SAND	X	11	13	16	HARDPAN W/ SAND STREAKS	X	13	16	25	LITE BRN CLAY	X	16	25	29	SAND GRAVEL ROCK	X	25	29	35	FINE TO CRSE SAND	X	29	35	38	SAND GRAVEL ROCK	X	35	38	43	BRN CLAY	X	38	43	48	FINE SAND	X	43	48	52	BRN CLAY W/ SAND	X	48	52	65	FINE TO CRSE SAND	X	52	65	83	LITE BRN SANDY CLAY	X	65	83	119	FINE TO MED SAND	X	83	119	132	LITE BRN CLAY	X	119	132	143	FINE TO CRSE SAND	X	132	143	173	BRN CLAY	X	143	173	177	FINE TO CRSE SAND	X	173	177	192	BRN CLAY	X	177	192	194	FINE TO CRSE SAND	X	192	194	217	BRN CLAY	X	194	217	223	FINE TO CRSE SAND	X	217	223	249	BRN CLAY	X	223	249	260	FINE TO CRSE SAND W/ MED GRAVEL	X	249	260		BRN CLAY	X
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4. METHOD DRILLED <u>REVERSE ROTARY</u> ☐ Rotary ☐ Air ☐ Hydraulic ☐ Reverse rotary ☐ Cable ☐ Dug ☐ Other _____	5. WELL CONSTRUCTION <u>SEE ATTACHED</u> Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____ Thickness _____ Diameter _____ From _____ To _____ _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet Was casing drive shoe used? ☐ Yes ☒ No Was a packer or seal used? ☐ Yes ☒ No Perforated? ☐ Yes ☒ No How perforated? ☐ Factory ☐ Knife ☐ Torch ☐ Gun Size of perforation _____ inches by _____ inches Number _____ From _____ To _____ _____ perforations _____ feet _____ feet _____ perforations _____ feet _____ feet _____ perforations _____ feet _____ feet Well screen installed? ☒ Yes ☐ No Manufacturer's name <u>RUSCOE MUSS</u> Type <u>CONTINUOUS WIRE</u> Model No. <u>HEAVY</u> Diameter _____ Slot size _____ Set from _____ feet to _____ feet Diameter _____ Slot size _____ Set from _____ feet to _____ feet Travel packed? ☒ Yes ☐ No ☐ Size of gravel <u>3/8</u> Placed from <u>40</u> feet to <u>60</u> Surface seal depth <u>40</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>2" PIPE W/CAP</u>																																																																																																																													
6. LOCATION OF WELL Sketch map location <u>must</u> agree with written location. N W X E S County <u>CHANYON</u> Subdivision Name _____ Lot No. _____ Block No. _____ NW 1/4 SW 1/4 Sec. <u>27</u> T. <u>4N</u> R. <u>5W</u>	10. Work started <u>3/23/92</u> finished <u>3/25/92</u> 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>PETE COPE DRILLING</u> Firm No. <u>213</u> Address <u>6505 W CHINDEN</u> Date <u>3/26/92</u> Signed by (Firm Official) <u>Joseph Jones</u> and (Operator) <u>Kevin Chastain</u>																																																																																																																													

HARVEY HOLTON
19595 NORTHSIDE BLVD
NAMPA ID 83687
Permit# 63-92-W-120

"16" casing record .250 wall welded			
1.5	-	120	121.5
130	-	145	15
165	-	180	15
210	-	220	10
250	-	258	8

169.5 total casing

16" Screen record .40 slot Roscoe Moss Continous wire.			
120	-	130	10
145	-	165	20
180	-	210	30
220	-	250	30

90 total screen

259.5 total screen+casing

63-11632

DROUGHT Well
Inventory

8-27-96

By Cindy Hodges



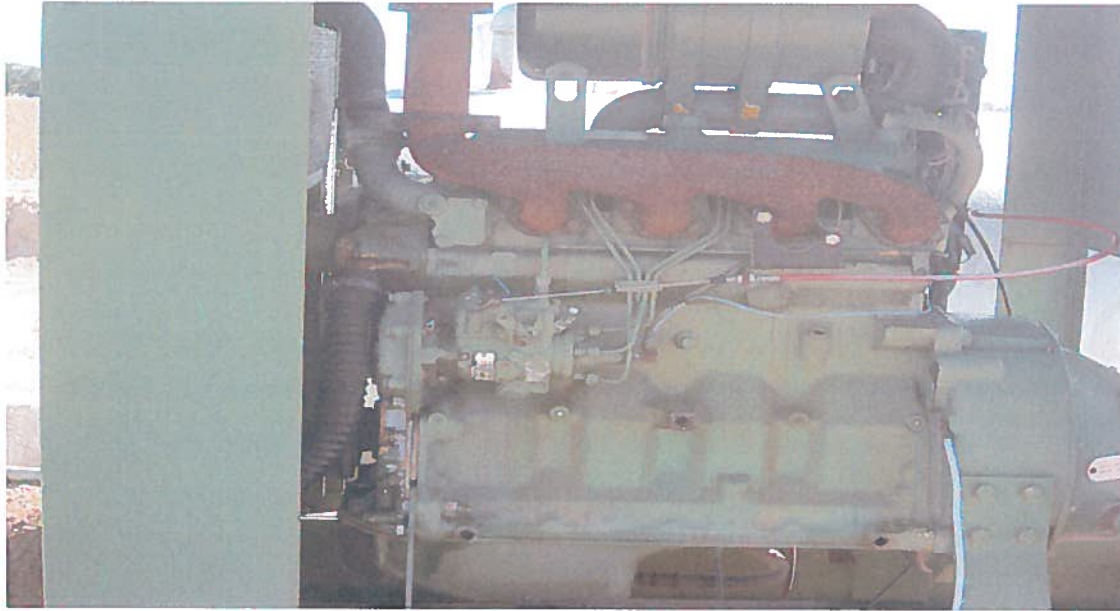
63-11632 – Field exam photographs



Well that is the point of diversion. White pipe is the PTO gear drive from the motor. The steel pipe, left bottom, is the 12" pipe that diverts water to the ditch.



Pipe from the well that diverts water into the ditch. Pipe seen in background diverts water from the Pioneer Irrigation District ditch to the permittee's ditch where the waters are comingled.



The diesel motor.



View is of the ditch system common to both the surface water and the ground water irrigation system.



View is one of the fields in the place of use. All crops had been harvested except for the last of the onions.