

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-12165

Exam Date:
7/9/2013

1. Current Owner: ASPEN COVE LAKE ASSN INC
2143 ASPEN COVE DR
MERIDIAN ID 83642
(208)888-6145
2. Accompanied by: Glen Hickey
Phone No: same as above
Address: same as above
Relationship to Permit Holder: homeowners' association board member

3. SOURCE**TRIBUTARY**

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 63-12164 [irrigation and irrigation storage], 63-11964 [aesethic storage and diversion to storage], and 63-12273 [aesethic storage and diversion to storage]
2. Other water rights with the same point of diversion: 63-12164, 63-11964 and 63-12273

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

GROUND WATER

NW1/4SE1/4

Sec. 23, Twp 03N, Rge 01W, B.M.

ADA County

Method of Determination: Garmin 76 GPS: N 43.58083, W -116.42091

2.

PLACE OF USE: IRRIGATION

TwprgeSec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N01W23															3.5		3.5

Total Acres: 3.5

DIVERSION TO STORAGE same as IRRIGATION
IRRIGATION FROM STORAGE same as IRRIGATION
IRRIGATION STORAGE same as IRRIGATION

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>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge Size</u>
Well	unknown	3	unknown		2"

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

D. FLOW MEASUREMENTS

1.

<u>Measurement 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: no measurements taken

E. FLOW CALCULATIONS ☐ Additional Computation Sheets Attached

Measured Method:

measured during a prior field exam at 60 gpm

60 gpm/448.8 gpm per cfs = 0.13 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: irrigation is from storage

$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 3.5 \times 4.5 = 15.75 = 15.8 \text{ af}$

$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.11 \text{ cfs} \times 260 \text{ days} \times 1.9835 = 56.73 \text{ af}$

$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 15.8$

2. Volume Calculations for Other Uses:

storage volume determined to be 1.7 ac during prior field exams

G. NARRATIVE/REMARKS/COMMENTS

The place of use is 6 lots in the Aspen Cove Lake Subdivision. The permit is for diversion to storage, irrigation storage and irrigation from storage for 2 ponds. The source is ground water from a well. Glen Hickey, who is on the homeowners' association board, and very familiar with the subdivision water rights, accompanied me on the field exam.

There have been no system changes since the system was installed. Field exams for the overlapping rights have been conducted and extensive information and site drawings can be found in these backfiles. Overlapping POU and POD rights are: 63-12164 for irrigation storage and irrigation of 3 acres; 63-11964 for diversion to storage and aesthetic storage in 2 ponds; and, 63-12273 for aesthetic storage and diversion to storage in 2 ponds.

The well is fitted with a 3 hp submersible pump. From the well, water is pumped through 2 inch pipes to both Aspen Lake [the large pond] and to the small pond. The small pond is south of the large pond, on the lot owned by the Hickeys. There is also piping from the Hickey pond to Aspen Lake for overflow. Each lot owners has their own pump in the lake.

Water is diverted from the large pond for irrigation to the 6 lots that abut the lake. There are about 6.5 irrigable acres for the 6 lots that are irrigated from the pond. Irrigation for 3 acres is covered by 63-12164, so I recommend for licensing 3.5 acres at the Department standard of 0.03 cfs per acres for a recommended quantity of 0.11 cfs. The volume of both ponds has been established previously during field exams for the overlaps to be 1.7 af, so this is the storage volume to be recommended. That does not include refill or evaporation, which is accounted for in other overlapping rights.

Volume for irrigation is 15.8, smaller of the Vir and Vdr calculations. Total volume is 17.5 af.

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

Permit Condition 3 should be amended to: This right, when combined with 63-11964, 63-12164, and 63-12273 shall not exceed 0.13 cfs pumping capacity and 1.7 af storage capacity.

F06 should be added: The following rights are diverted through point(s) of diversion described above: 63-11964, 63-12164, 63-12165 and 63-12273.

The following condition should be added: Irrigation storage is for two ponds.

H. RECOMMENDATIONS

1) Permit amount	<u>0.13</u> cfs &	<u>1.7</u> af storage
2) Beneficial use limit	<u>0.11</u> cfs &/or	<u>n/a</u> af storage
3) System measurement	<u>0.13</u> cfs &	<u>1.7</u> af storage
4) Proof fee amount	<u>0.2</u> cfs &/or	<u>20</u> af storage

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
DIVERSION TO STORAGE	01/01 to 12/31	0.110 CFS	
IRRIGATION FROM STORAGE	03/01 to 11/15		1.70 AF
IRRIGATION	03/01 to 11/15	0.110 CFS	15.80 AF
IRRIGATION STORAGE	01/01 to 12/31		1.70 AF
	<u>Totals:</u>	0.110 CFS	17.50 AF

2. Recommended Amendments

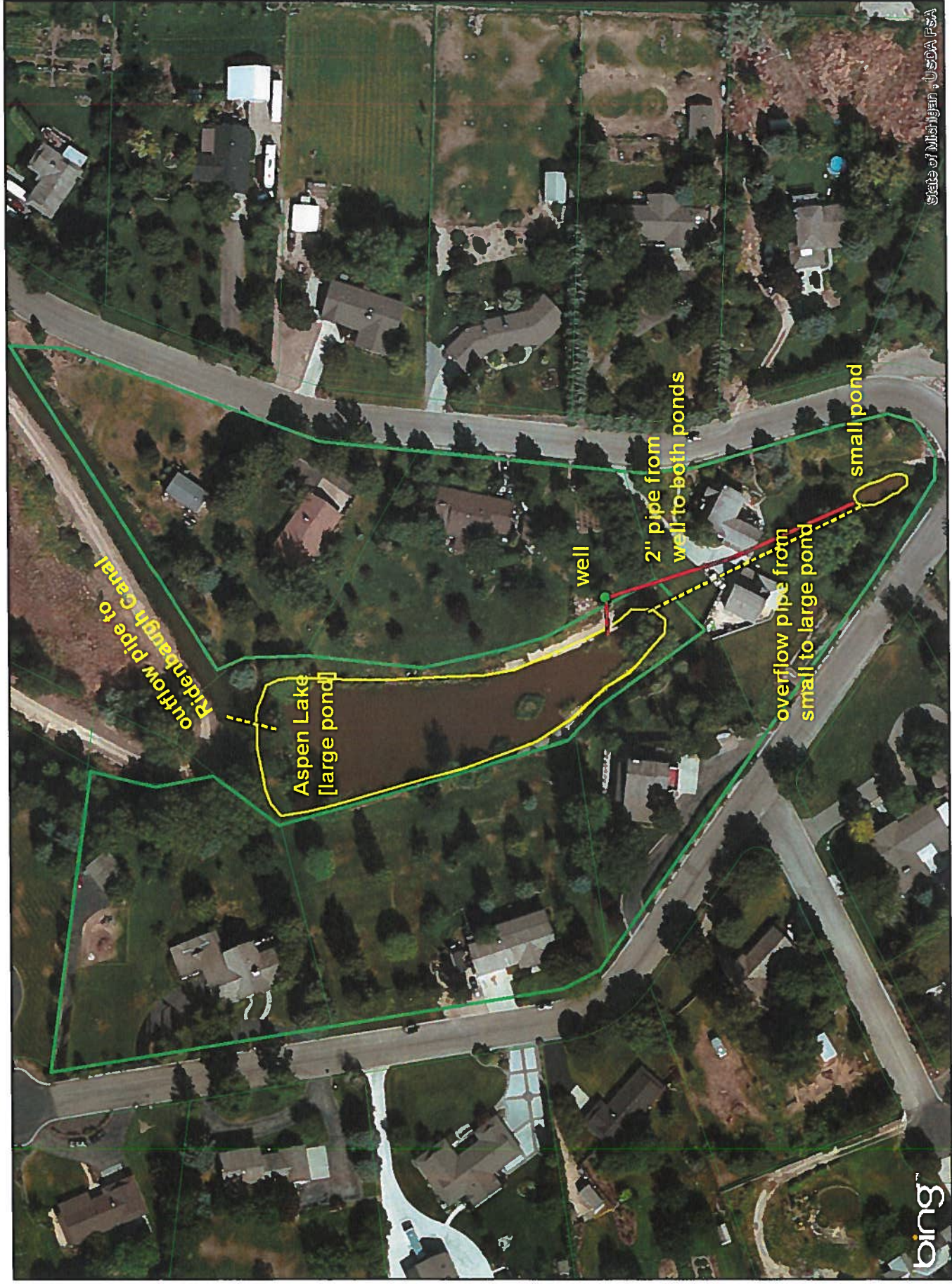
___ Change P.D. as reflected above ___ Add P.D. as reflected above ___x___ None

___ Change P.U. as reflected above ___ Add P.U. as reflected above ___ Other

I. AUTHENTICATION

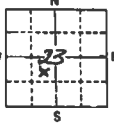
Field Examiner's Name Wick Chalk Date 1-15-14

Reviewer _____ Date _____



63-12165 - Six taxlots [green] comprise the place of use which is outlined in blue. Ponds outlined in yellow. Two inch pipe from well to both ponds shown as orange line. Overflow pipe from small to large pond, and then to Ridenbaugh, shown in yellow. 2011 Bing aerial photograph.

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORTUSE TYPEWRITER OR
BALLPOINT PENState 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>Glen & Peggy Hickey</u> Address <u>2143 Aspen Cove Dr. Meridian,</u> Drilling Permit No. <u>63-92-W-0702-000</u> Water Right Permit No. <u>63-12164</u>	7. WATER LEVEL Static water level <u>21</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 <u>53</u> °F. Quality <u>Iron 10+/PH7.5/Gr10</u> Describe artesian or temperature zones below.																																																																																																																												
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Well diameter increase ☐ Modification ☐ Abandoned (describe abandonment or modification procedures such as liners, screen, materials, plug depths, etc. in lithologic log, section 9.)	8. WELL TEST DATA ☐ Pump ☐ Baller ☒ Air ☐ Other _____ <table border="1"><thead><tr><th>Discharge G.P.M.</th><th>Pumping Level</th><th>Hours Pumped</th></tr></thead><tbody><tr><td>150</td><td></td><td>1</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	150		1																																																																																																																						
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3. PROPOSED USE ☒ Domestic ☐ Irrigation ☐ Monitor ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection ☐ Other _____ (specify type)	9. LITHOLOGIC LOG 082120 <table border="1"><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>6"</td><td>0</td><td>2</td><td>Top Soil</td><td></td><td></td></tr><tr><td>"</td><td>2</td><td>6</td><td>Hard Pan</td><td></td><td></td></tr><tr><td>"</td><td>6</td><td>9</td><td>Tan Clay</td><td></td><td></td></tr><tr><td>"</td><td>9</td><td>13</td><td>Sand</td><td></td><td></td></tr><tr><td>"</td><td>13</td><td>60</td><td>Hard Clay</td><td></td><td></td></tr><tr><td>"</td><td>60</td><td>75</td><td>Sandy Clay</td><td></td><td></td></tr><tr><td>"</td><td>75</td><td>102</td><td>Sand</td><td></td><td></td></tr><tr><td>"</td><td>102</td><td>105</td><td>Clay</td><td></td><td></td></tr><tr><td>"</td><td>105</td><td>109</td><td>Sand</td><td></td><td>X</td></tr><tr><td>"</td><td>109</td><td>113</td><td>Clay</td><td></td><td></td></tr><tr><td>"</td><td>113</td><td>115</td><td>Sand</td><td></td><td>X</td></tr><tr><td>"</td><td>115</td><td>118</td><td>Clay</td><td></td><td></td></tr><tr><td>"</td><td>118</td><td>122</td><td>Sand v. lit.</td><td>X</td><td></td></tr><tr><td>"</td><td>122</td><td>124</td><td>Clay</td><td></td><td></td></tr><tr><td>"</td><td>124</td><td>134</td><td>Sand</td><td></td><td>X</td></tr><tr><td>"</td><td>134</td><td>135</td><td>Clay</td><td></td><td></td></tr><tr><td>"</td><td>135</td><td>155</td><td>Sand</td><td></td><td></td></tr><tr><td>"</td><td>155</td><td>160</td><td>Clay</td><td></td><td></td></tr><tr><td>"</td><td>160</td><td>-</td><td>Sand</td><td></td><td>X</td></tr></tbody></table>	Bore Diam.	Depth		Material	Water		From	To	Yes	No	6"	0	2	Top Soil			"	2	6	Hard Pan			"	6	9	Tan Clay			"	9	13	Sand			"	13	60	Hard Clay			"	60	75	Sandy Clay			"	75	102	Sand			"	102	105	Clay			"	105	109	Sand		X	"	109	113	Clay			"	113	115	Sand		X	"	115	118	Clay			"	118	122	Sand v. lit.	X		"	122	124	Clay			"	124	134	Sand		X	"	134	135	Clay			"	135	155	Sand			"	155	160	Clay			"	160	-	Sand		X
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4. METHOD DRILLED ☒ Rotary ☒ Air ☐ Auger ☐ Reverse rotary ☐ Cable ☐ Mud ☐ Other _____ (backhoe, hydraulic, etc.)																																																																																																																													
5. WELL CONSTRUCTION Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____ <table border="1"><thead><tr><th>Thickness</th><th>Diameter</th><th>From</th><th>To</th></tr></thead><tbody><tr><td>.250</td><td>6</td><td>2</td><td>156</td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr></tbody></table> 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 <table border="1"><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 _____ Type _____ Top Packer or Headpipe _____ Bottom of Tailpipe _____ 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>20</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>Top of well</u>	Thickness	Diameter	From	To	.250	6	2	156													Number	From	To																																																																																																						
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6. LOCATION OF WELL Sketch map location must agree with written location.  Subdivision Name <u>Aspen Cove Sub</u> Lot No. <u>2</u> Block No. <u>5</u> County <u>ADA</u> Address of Well Site <u>2143 ASPEN COVE MERIDIAN</u> (give at least name of road) T. <u>3</u> N ☒ or S ☐ R. <u>1</u> E ☐ or W ☒ NE 1/4 SW 1/4 Sec. <u>23</u> , R. <u>1</u>	11. DRILLER'S CERTIFICATION I/We certify that all minimum well construction standards were complied with at the time the rig was removed. Firm Name <u>Adamson Pump & Drilling</u> Firm No. <u>457</u> Address <u>Nampa, ID</u> Date <u>9/8/92</u> Signed by Drilling Supervisor <u>Don Adamson</u> and (Operator) <u>John Post</u> (If different than the Drilling Supervisor)																																																																																																																												

USE ADDITIONAL SHEETS IF NECESSARY — FORWARD THE WHITE COPY TO THE DEPARTMENT

63-12164 – Aspen Cove Subdivision. Field exam photographs



Well, 6" diameter, 3 hp submersible pump.



Looking south. Well seen left center. 2" pipe from well to pond seen center.



From northeast end of large pond, looking south at large pond.



Lot owners have individual pump to irrigate from the large pond. This is one of them.



Outflow from large pond into the Ridenbaugh Canal.