

FIELD EXAM CHECKLIST

PERMIT # 63-33510 STAFF CP DATE 10/16/16

PREPARE LICENSING FILE (Left side)

- ☒ Copy of permit approval & proof report (place on top)
☒ Copy of original application for permit
☒ Copy of Proof of Beneficial Use Exam fee required \$ 0 Exam fee paid \$ 0
☒ Copies of any Amendments/Assignments/Ownership Docs

EXAM PREPERATION (Right side)

- ☐ Blank Beneficial Use Field Report form
☐ Aerial photo (system diagram map to be completed with permit owner)
☐ Well log (attach to field exam)
 Conditions: Measuring device requirements? _____ Installed? _____
 Other (supplemental conditions, limits, etc.)? _____
 Overlap: POD? _____
 POU? _____

Ownership

Taxlot / ID SOS match?

If new owner, collect Assignment of Permit form / Ownership Change form in field.

EXAM APPOINTMENT owner or rep phone #? _____

Owner or rep will be present at exam (someone familiar with system)¹?

Exam date/time/place?

If cannot get from web or other references: directions to site? approx driving time from office?

System on/operating normally during exam (not always required)?

SYSTEM INFOPump Diversion

Approx HP?

Owner can provide pump curve?

Pump set or lift?

Approx operating psi?

Approx mainline pipe diameter?

Approx # sprinklers? Nozzle size?

Gravity Flow

Ditch capacity?

Weirs or Flumes installed?

Special Remarks:**POST FIELD EXAM**

- ☒ Exam date data entered
☒ Ad Hoc data entry & license shapes
☒ Exam file prepared – see N:\WR Field Exams\LicenseFileOrganization
~~none~~ ☐ Licensing amendments required _____ If so, received?
☒ Draft license & WR Layout maps **OR** _____ Void permit

¹ OK to do exam w/o anyone present if owner agrees in advance, provides info so you can find p/d, how system works, how recognize p/u etc. Usually limited to small systems – spring/creek/well for cabins, few acres irrigation, minor stockwater/wildlife/recreation etc.

10/21/2016

IN-OFFICE BENEFICIAL USE FIELD REPORT

Permit No: 63-33510

Examiner: CP

REVIEWED: AL 12/9/16

Date: 11/16/16

In-office qualification (IDAPA 035.01.r): ☒ Irrigation ≤ 5 acres
☐ Stockwater storage ≤ 14.6 af
☐ Total diversion rate ≤ 0.24 cfs and not irrigation or storage

Current Owner Name: Alan Herzfeld And/Or Patricia Herzfeld

Address: 9409 Burnett Dr. Boise, ID 83709

Beneficial Use Fee Paid: \$0

Receipt: NA

Source: Groundwater

Source change? ☒ N ☐ Y Change clarifies originally intended source.
If not – void permit.

Point of Diversion			NE				NW				SW				SE			
Twp	Rge	Sec	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE
03N	01E	26		X														

Method of Determination: From the well log filed for the previous owner, Gary Mayne

POD change? ☒ N ☐ Y

Place of Use			NE				NW				SW				SE				Totals
Twp	Rge	Sec	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N	01E	26		0.4															0.4

Method of Determination: Aerial imagery of the property confirmed with digital PLS map

POU change? ☒ N ☐ Y

Purpose of Use: Irrigation

Purpose change? ☒ N ☐ Y

Method of Determination: Irrigation use apparent from aerial imagery

Standard Season of Use: 03/01 - 11/15

Update required on license? ☒ N ☐ Y**Overlap Review**POD overlap? ☐ N ☒ Y WR's: 63-15848

Analysis Attached ☒ Comments: The overlap here is for an existing 1.3-acre water right using the same groundwater well. The new water permit was issued for an additional acre of irrigation. Therefore, the POD has overlap.

POU overlap? ☐ N ☒ Y WR's: 63-15848

Comments: Existing WR is for 1.3 acres, Permit for 1 acre, 1.7 acres irrigable. All other irrigation WR's in this QQ are for different properties

Diversion Rate Permitted Rate: 0.03 cfs BU Standard Limit: 0.01 cfs
 BU Fee Limit: 0.04 cfs Theoretical (optional): cfs
Recommended Total Div Rate: 0.01cfs

Annual Volume

For Irrigation: 0.01 cfs x 1.9835 x 260 days = 5.2 af
 0.40 acres x 4.5 af/ac (FHR) = 1.8 af
 Smaller of two volumes = 1.8 af

For other uses: No other uses

IN-OFFICE BENEFICIAL USE FIELD REPORT

Recommended Amounts

Beneficial Use	Season of Use	Diversion Rate (cfs)	Annual Volume (af)
Irrigation	03/01 - 11/15	0.01	1.8

Totals

0.01 cfs

1.8 af

Amendments Required☐ Change P.D.☐ Add P.D☒ None☐ Change P.U.☐ Add P.U.☐ Other:

Conditions: Change condition 121 to 103 at licensing. Replace R69 with X31 per State Office guidance, add X59 to X60, remove 004.

Have conditions of permit been met? ☒ Y ☐ N**Narrative:**

Permit 65-23620 authorized the diversion of 0.03 CFS for the irrigation of 1 acre of land. This permit was authorized after an amendment of the original application, which called for irrigation of 2 acres. This permit has called for irrigation of <5 acres, qualifying it for an in-office field examination.

The legal description for the POD was taken from the well log, which was listed under the name of the original owner Gary Mayne. This well was linked to the property through the address. There is GPS data available for the well site, but it was previously found to locate the site of the well on neighboring property. Therefore, the Q-Q description was the finest resolution possible for this POD. The site of the POU was determined from aerial imagery, and the legal description was determined from digital PLS mapping.

A review of overlap showed that the permit POD overlaps an existing water right POD for this property. I correlated these two points in Arcmap to show that they are the same well. The existing water right, for 1.3 acres, was owned by the previous landowner, and had not been transferred to the current landowners' names initially, though it was later on. This permit application shows that the original request was to irrigate 2 acres of the 2-acre lot. However, after being advised by John Westra, the landowners filed an amendment to their application to reduce the requested acreage to 1 acre to take into account the existing water right. The total acreage from the existing water right and the permit adds up to 2.3 total acres of irrigation. From the aerial imagery, I can measure a maximum of 1.7 acres of land to be irrigated. Therefore, I recommend that the license be issued to irrigate 0.4 acres, bringing the total to 1.7.

I have determined that the diversion rate for this license should be 0.01 CFS based on the reduction of acres of irrigation. This comes from a maximum rate of 0.03 CFS/acre x 0.4 acres. The limiting annual volume of 1.8 af comes from the 4.5 af headgate requirement multiplied by the 0.4 acres.

Finally, because the well log found has the same street address as the permit, I correlated the well point to the location marked on the applicant's map. This POD can be seen on the attachment to the water right license.

Workflow

Exam Date Entered ☒
 POU/POD shapes ☒
 Combined Rights Entry ☐
 Wild & Scenic Entry ☐
 Draft License and Map ☒
 Other:

Supporting Documents

Aerial Photograph ☒ Well Log ☒
 Photographs ☐ Diagrams ☐
 LandSat ☐ Theoretical ☐
 Other:
 Site Visit ☐ Date:

State of Idaho
Department of Water Resources
Map of POU/POD
63-33510

This map depicts the IRRIGATION place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.



-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections

0 0.035 0.07 0.14 Miles



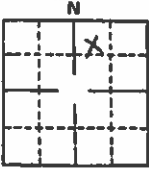
03N01E26

BasinSequence Owner Source

63-33510 HERZFELD, ALAN; HE GROUND WATER
 63-10823 KAYLOR, GLORIA J; K GROUND WATER
 63-11017 BOLEN, GILBERT J; B GROUND WATER
 63-15848 HANOLD, BRIAN L; H GROUND WATER
 63-18005 AFFLECK, CAROLYN; GROUND WATER
 63-33303 GALINDO, JAMES A; GROUND WATER
 63-33304 COLEMAN, GLORIA J GROUND WATER
 63-34062 REYNOLDS, BRIAN; R GROUND WATER
 63-4815 BURLEY, KENNETH E WASTE WATER
 63-4835 BARKIS, SUSAN; BELI GROUND WATER
 63-8037 BAIRD, TERRY L GROUND WATER
 63-8419 PRATT, ROBERT JAM GROUND WATER
 63-9287 INDEPENDENT SCHO GROUND WATER
 63-9387 RASMUSSEN, MARIC GROUND WATER

NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	TotalAcres
	1															1
													0.7			0.7
												0.5				0.5
	1.3															1.3
2																2
		1														1
		1														1
												0.7	0.1			0.8
	1															1
	1.7															1.7
										1						1
													1			1
											13					13
													1			1

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>Gary Mayne</u> Address <u>9409 Burnett Dr Boise, Id</u> Drilling Permit No. <u>63-91-W-489</u> Water Right Permit No. _____	7. WATER LEVEL Static water level <u>65</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 _____ °F, Quality _____ 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 ☐ Bailor ☒ 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>50</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	50		1																																																																																																																												
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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"><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>8</td><td>0</td><td>2</td><td>Top Soil</td><td></td><td>X</td></tr><tr><td></td><td>2</td><td>45</td><td>Gravel</td><td></td><td>X</td></tr><tr><td></td><td>45</td><td>55</td><td>SAND</td><td></td><td>X</td></tr><tr><td></td><td>55</td><td>76</td><td>SAND & Gravel</td><td></td><td>X</td></tr><tr><td></td><td>76</td><td>90</td><td>SAND & clay</td><td>X</td><td></td></tr><tr><td></td><td>90</td><td>110</td><td>SAND & clay</td><td>X</td><td></td></tr><tr><td></td><td>110</td><td>123</td><td>coarse SAND & clay</td><td>X</td><td></td></tr><tr><td></td><td>123</td><td>137</td><td>Brown SAND & Gravel</td><td>X</td><td></td></tr><tr><td></td><td>137</td><td>135</td><td>SANDY clay</td><td>X</td><td></td></tr><tr><td></td><td>139</td><td>153</td><td>clay</td><td></td><td>X</td></tr><tr><td></td><td>153</td><td>157</td><td>SAND</td><td>X</td><td></td></tr><tr><td></td><td>157</td><td>194</td><td>SAND clay / w sand streaks</td><td>X</td><td></td></tr><tr><td></td><td>194</td><td>196</td><td>coarse SAND & clay</td><td>X</td><td></td></tr><tr><td></td><td>196</td><td>200</td><td>coarse SAND</td><td>X</td><td></td></tr><tr><td></td><td>200</td><td>204</td><td>clay - SAND</td><td>X</td><td></td></tr><tr><td></td><td>204</td><td>207</td><td>coarse SAND</td><td>X</td><td></td></tr><tr><td></td><td>207</td><td>211</td><td>SANDY clay</td><td>X</td><td></td></tr><tr><td></td><td>211</td><td>215</td><td>SANDY clay & SAND</td><td>X</td><td></td></tr><tr><td></td><td>215</td><td>219</td><td>C. SAND & Gravel</td><td>X</td><td></td></tr><tr><td></td><td>219</td><td>222</td><td>clay</td><td></td><td>X</td></tr></tbody></table>	Bore Diam.	Depth		Material	Water		From	To	Yes	No	8	0	2	Top Soil		X		2	45	Gravel		X		45	55	SAND		X		55	76	SAND & Gravel		X		76	90	SAND & clay	X			90	110	SAND & clay	X			110	123	coarse SAND & clay	X			123	137	Brown SAND & Gravel	X			137	135	SANDY clay	X			139	153	clay		X		153	157	SAND	X			157	194	SAND clay / w sand streaks	X			194	196	coarse SAND & clay	X			196	200	coarse SAND	X			200	204	clay - SAND	X			204	207	coarse SAND	X			207	211	SANDY clay	X			211	215	SANDY clay & SAND	X			215	219	C. SAND & Gravel	X			219	222	clay		X
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4. METHOD DRILLED ☐ Rotary ☐ Air ☐ Hydraulic ☐ Reverse rotary ☒ Cable ☐ Dug ☐ Other _____																																																																																																																																			
5. WELL CONSTRUCTION Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____ Thickness _____ inches Diameter _____ inches + _____ feet To _____ 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>Houston</u> Type <u>304</u> Model No. _____ Diameter <u>6</u> Slot size <u>0.25</u> Set from <u>109</u> feet to <u>119</u> feet Diameter <u>6</u> Slot size <u>0.25</u> Set from <u>95</u> feet to <u>105</u> feet Gravel packed? ☐ Yes ☐ No ☐ Size of gravel _____ Placed from _____ feet to _____ feet Surface seal depth <u>18</u> Material used in seal: ☐ Cement grout ☒ Bentonite ☒ Puddling 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 _____																																																																																																																																			
6. LOCATION OF WELL Sketch map location must agree with written location.  Subdivision Name <u>APR 09 1992</u> Lot No. _____ Block No. _____ County <u>ADA</u> NW ¼ NE ¼ Sec. <u>26</u> T. <u>3N</u> S. <u>3</u> R. <u>1E</u> W. <u>0</u>	11. DRILLERS CERTIFICATION <u>all</u> I/We certify that all minimum well construction standards were complied with at the time the rig was removed. Firm Name <u>Denver Phipps</u> Firm No. <u>372</u> Address <u>Meridian Id</u> Date <u>11 Feb 92</u> Signed by (Firm Official) <u>[Signature]</u> and (Operator) <u>[Signature]</u>																																																																																																																																		