

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
IN-OFFICE REVIEW/FIELD REPORT

Permit No: 61-7751

Does this qualify for an in-office field exam (*IDAPA 035.02.r*)? Is the permit for:
multiple dwelling domestic

- Irrigation of 5 acres or less
- Storage of up to 14.6 AF for stockwater purposes only
- Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less

Verify that fees have been paid \$50.00, receipt #C074176

Fee Schedule:

<http://www.idwr.idaho.gov/RulesStatutesForms/WaterRights/PDFs/LicenseExamFees.pdf>

(A license examination fee is not required in connection with permit which use a ground water source and have a total rate of diversion of 0.04 cfs or less OR where the total volume stored is 4.0 AF per year or less)

A. CONTACT INFORMATION

Exam/Review Date: 04/16/2014

1. Is the Owner of record correct (y/n): yes

If NO: Owner: Power of attorney - Brad Bowen for Rick Holden

590-0207 - Brad Bowen

Is the Address of record correct (y/n): no

If NO: Address: unk

If available:

Phone No: _____
(Primary)

E-mail: _____

Phone No: _____
(Secondary)

E-mail: _____

Open Info Search, enter the permit number, and then use the ArcMap interface to bring up the POU/POD on ArcMap. Check the Taxlot information to see if it matches the permit or proof statement contact information.

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B. POINT OF DIVERSION

no Change in POD (y/n)?

If yes:

-Compare permit map with taxlot data. If it is domestic use from a well, the POD is generally close to the home.
 -For Wells, bring in the "well" layer to see if it is digitized.
 -if your overlap analysis found overlapping rights, you can use the data in those rights to verify the POD location.

Ident No.	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
			se	ne	33	3S	6E	Elmore	ArcMap/site visit/GPS

Method of Determination/Remarks: well log has incorrect legal - field visit and gps confirm well location in se ne of section 33 3s 6e.

no Amendment Required (y/n)?

no *X59: Point of diversion is located within <Lot 52, Muldoon Ranch Subdivision #2>.*

C. SOURCE:

1. no Change in Source (y/n)?

For springs and streams, we use the name of the source shown on the USGS quad maps.

If yes:

Source: _____ tributary to _____

2. Method of Determination/Remarks: _____

no Amendment Required (y/n)?

no *B01: Source is also known as _____.*

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D. PLACE OF USE:

1. **no**

Change in POU (y/n)?

If yes:

-Use Taxlot information in ArcMap, permit maps, overlapping rights.
-Check for government lots

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	

Or:

☒ See attached map (goto I.)

2. Method of Determination/Remarks: _____

no Amendment Required (y/n)?

no X60: Place of use is located within <Lot 52, Muldoon Ranch Subdivision #2>.

E. OVERLAP REVIEW

1. Place of Use (POU):

no (y/n): Other water rights with the same place of use(POU)?

Research Tools:

- ☒ InfoSearch - Query for other WR's with same POU
- ☒ POU Comparison Report - Query Tools
- ☒ Use ArcMap for overlapping POU

We are checking to see if any other water rights share the same POU or POD. The research tools on the left will help narrow down WR's with POU's and PODs in the same 40 acre tract, but that does not necessarily mean they share the same actual POD (same well, spring etc.) or the same POU (house, 3 acre pasture, etc).

Water Right No.	Source	Purpose of Use	Basis

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For irrigation rights only:

no (y/n)? E55: Right Nos. _____ and _____ are limited to the irrigation of a combined total of _____ acres in a single irrigation season.

2. Point of Diversion (POD) Overlap:

no (y/n) Other water rights with the same point of diversion (POD)? Research tools:



InfoSearch - Query for other water rights with the same POU



Use ArcMap for overlapping POU

Water Right No.	Source	Purpose of Use	Basis

F06: The following rights are diverted through point(s) of diversion described above: . _____

F. PURPOSE OF USE:

no Change in purpose of use (y/n):

If yes:

Use _____ From _____ To _____ Amount _____ CFS _____ AFA

Use _____ From _____ To _____ Amount _____ CFS _____ AFA

Use _____ From _____ To _____ Amount _____ CFS _____ AFA

Changes in purpose of use generally consist of things like "Recreation" really being "Recreation Storage", or multi-home domestic uses changing to "Municipal".

Method of Determination/Remarks: field visit

Non-irrigation uses:

Domestic # of homes 4

Stock # _____

Other: _____

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G. DIVERSION RATE:

Calculations:

Since we aren't taking a measurement, this is where we explain the recommended diversion rate. Ex. Internal and external domestic use standard is 0.04 cfs.

Per Admin memo #22, 4 homes = .10 CFS or 0.025 cfs per home. Permit limited to 0.075 cfs per protest resolution.

Per theoretical pump calculations = 0.06 cfs

Notes/Remarks: Recommend licensing for 0.06 cfs

H. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

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

$V_{\text{IR}} = (\text{ }) (\text{ }) = 0$

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

$V_{\text{DR}} = (\text{ }) (\text{ }) (1.9835) = 0$

$V = \text{Smaller of } V_{\text{IR}} \text{ and } V_{\text{DR}}.$

For uses that require a volume, this area can be used to show calculations and explain the recommended diversion volume. Ex: 3 acres at field headgate of 4.0 AF per acre = 12 AF.

2. Volume Calculations for Other Uses: _____

I. NARRATIVE/REMARKS/COMMENTS/CHECKLIST

yes Is there enough information to verify the water right in office (IDAPA 035.02.r)?

We need to be able to verify:

- ☒ Beneficial use
- ☒ Place of use
- ☒ Season of use
- ☒ Point of diversion

After reviewing the information available, is there enough information to verify beneficial use and issue a license?

At a minimum, you must be able to verify the 4 items to the left.

Checklist (you do not need all of these items):

- ☒ Property tax information
- ☒ Well driller report
- ☒ Receipts
- ☒ photographs
- ☒ Aerial photography (**Arcmap**)
- ☐ Other records of the permit holder

This checklist is meant to provide a list of items that can be used to verify beneficial use.

☒ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (**REQUIRED**). Scale must be 1:24,000 or greater.

(Use the WENET Layout application for this)

**Have conditions of permit approval been met? yes

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NARRATIVE/REMARKS/COMMENTS

Application submitted originally for 4 duplexes (8 homes) and 0.15 cfs. Application was protested which resulted in limiting the number of dwellings to 2 and the diversion rate from 0.15 to 0.075 and allowing only one well on the property. During licensing review it was determined that the applicant, Mr. Holden owns additional property and dwellings adjacent to those included in the water permit. A field exam identified one well serving the two duplexes but could not identify a separate well serving the other properties. Phone conversation with Brad Bowen (208-590-0207), representing Mr. Holden revealed that in addition to the allowed 2 duplexes Mr. Holden owns 4 homes on the adjacent two lots contiguous with and north of the property covered by water permit 61-7751 and is supplying them water from the well approved for the duplexes only.

J. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
<u>Domestic</u>	<u>1/01</u> to <u>12/31</u>	<u>0.06</u> CFS	<u> </u> AF
<u> </u>	<u> </u> to <u> </u>	<u> </u> CFS	<u> </u> AF
<u> </u>	<u> </u> to <u> </u>	<u> </u> CFS	<u> </u> AF
		<u>Totals:</u>	<u> </u> CFS <u> </u> 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 ☐ None

K. AUTHENTICATION

Field Examiner's Name Quentin Hershey Date 4-22-14
Reviewer Daniel A. Melan Date 4-23-14

THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 86-7373

Examiner: Chad

Date of Field Exam: 4/18/2014

P/D No.:	Option 1	OPTION 2	OPTION 3	
PUMP HORSEPOWER	5	5	5	
BOOSTER HORSEPOWER	0	0	0	
PUMPING LEVEL	443	443	443	
DISCHARGE PRESSURE	40	50	60	
FRICITION	0	0	0	
RATE OF FLOW (cfs)	0.06	0.06	0.05	AVE
(gpm)	25.8	24.8	23.8	0.06

The above calculates the formula =

$$Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$$

Assumptions: %70 efficiency.

Examiners Notes:

Lift was taken from well log. Hp was found during site visit. A standard psi for domestic use of 40 to 60 psi was used to estimate the pressure against the pump.

State of Idaho
Department of Water Resources
Water Right License
61-7751

Field exam map, Rick Holden

06E

03S



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

0 0.0175 0.035 0.07 Miles



Water Right 61-7751, Rick Holden, Mountain Home.



Pump control box



Pressure tank



Well head



Well head

[illegible]