

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

A. GENERAL INFORMATION

Permit No: 63-34039

Exam Date: 8/25/2016

1. Does this qualify for an in-office field exam (IDAPA 035.02.r)? ☒ Yes ☐ No
- a. Irrigation of 5 acres or less
- b. Storage of up to 14.6 AF for stockwater purposes only
- c. Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less
- d. Other < >

2. Current Owner: Name: Jim and Michele Connelly
- Owner-of-Record Correct? ☒ Yes ☐ No
- Address-of-Record Correct? ☒ Yes ☐ No
- If No: <Address>

3. Beneficial Use Fees have been paid: ☒ Yes ☐ No Receipt No: C102213

4. SOURCE TRIBUTARY

Ground water

N/A

Method of Determination: A map identifying the POD was submitted with application.

Change in Source: ☐ Yes ☒ No**B. OVERLAP REVIEW**

Refer to the attached overlap analysis spreadsheet

1. Other water rights with the same place of use: Overlap? ☐ Yes ☒ No

Water Right No.	Source	Purpose of Use	Basis

Comments: POUs are within the service territory of both the Pioneer Irrigation District and the City of Nampa. Water from those entities is not and will not be used

2. Other water rights with the same point of diversion: Overlap? ☐ Yes ☒ No

Water Right No.	Source	Purpose of Use	Basis

Comments: There are two wells located within this property. One is dedicated to domestic use and was drilled in 2013. The other is for the irrigation use authorized by this right and was drilled in 2015.

C. DIVERSION AND DELIVERY SYSTEM1. LOCATION OF POINT(S) OF DIVERSION:

Source	Govt. Lot	¼	¼	¼	Sec.	TWP	RGE		County
Ground water			SE	SW	18	3N	02W	B.M.	CANYON

Method of Determination: The legal description in the permit is validated by PLS data and aerial photography. I confirmed the approximate locations of both wells in a phone conversation with the permit holder.

Change in POD? ☐ Yes ☒ NoAmendment Required? ☐ Yes ☒ No

2. **LOCATION OF PLACE(S) OF USE:** Use: Irrigation

TWP	RGE	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N	02W	18												0.8					0.8

Method of Determination: The legal description in the permit is validated by PLS data. Irrigation was determined by aerial photography and satellite imagery.

Change in POU? ☐ Yes ☒ No Amendment Required? ☐ Yes ☒ No

3.

☐ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.

☒ Aerial Photo Attached (required for irrigation of 10+ acres).

☐ Photo of Diversion and System Attached

4. Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
		1		Unknown well pump	

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

D. FLOW MEASUREMENTS

1. Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements: In-office field exam. No measurements taken

E. FLOW CALCULATIONS

☒ Additional Computation Sheet Attached

	Irrigation	
Policy standard on actual acres	0.03 cfs x 0.8 ac = 0.02 cfs	
Permit allowed	0.09 cfs	
License recommendation	0.02 cfs	

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 0.8 \times 4.5 = 3.6 \text{ af}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.02 \times 260 \times 1.9835 = 12.4 \text{ af}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 3.6 \text{ af}$$

Volume Calculations for Other Uses: N/A

License recommendation – 3.6 af total.

G. PURPOSE OF USEIrrigation ☒ Yes ☐ No # Stock _____ Domestic # of Homes N/A

Other: < >

Change in Purpose of Use? ☐ Yes ☒ No

Method of Determination: Information in the water right file is consistent with aerial photography of the property.

If Yes: From Use _____ To Use _____ Amount _____ CFS _____ AFA _____

H. NARRATIVE/REMARKS/COMMENTS

Permit 63-34039 authorized a diversion from ground water of 0.09 cfs for irrigation purposes. Based on the small permitted diversion rate, this permit qualifies for an in-office field exam.

The legal description of the POU was used to locate the property. Available Canyon County taxlot information shows the owner of the property as the James E. Connelly and Michele Chase Trust. A map identifying the POU's was submitted with the application and the shapes outlined on that map match cultivated plots on the property.

I created the POU shapes based on aerial photography. In addition to IDWR's NAIP imagery, I referred to Google Earth, and ESA Sentinel satellite imagery. 2016 Google Earth imagery shows 4 new gardens/places of use. The ESA Sentinel imagery indicated that at least two of the gardens had been irrigated close to the date of the image. Lawn and garden areas directly adjacent to the house had been covered by an unrecorded domestic right. Those areas are now covered by this right.

Less irrigation had been developed than had been proposed in the application. The permit holder thought that having the distribution system in place and operational was all that was required to establish beneficial use. She had submitted proof before she had put water to the full intended use. I explained the water rights process in phone conversations and provided Michele Connelly the information that she would need in order to apply for an additional permit.

The POD shape is based on the permit's POD shape and spatial data point. The property contains more than one well. The irrigation well is described by the attached Well Driller's Report and identified as well tag #D0070146 and drilling permit #970456-876513.

Have conditions of permit approval been met? ☒ Yes ☐ No**I. RECOMMENDATIONS****1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
Irrigation	03/01-11/15	0.02 cfs	3.6 af
<u>Totals</u>		0.02 cfs	3.6 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 Michele Edl Date August 26, 2016

Reviewer _____ Date _____

Workflow

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

Supporting Documents

Historical Imagery ☒ Well Log ☒
 Photographs ☐ Diagrams ☐
 LandSat ☒ Theoretical ☒
 Other: _____

THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 63-34039
 Reviewer: Michele Edl
 Date of Review: 8/26/2016

P/D No.:	Senerio 1	Senerio 2	Senerio 3
PUMP HORSEPOWER	1	1	1
BOOSTER HORSEPOWER	0	0	0
PUMPING LEVEL	75.0	75.0	75.0
DISCHARGE PRESSURE	35	45	55
RATE OF FLOW (cfs)	0.04	0.03	0.03 0.03

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
 No Friction

Examiners Notes:

Horsepower was estimated by the applicant. Lift was estimated by the reviewer and is based on the water level in the well driller's report for this well. Discharge pressure ranges from 35-55 psi to account for expected system in use.

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IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

WR 63-34039

1. WELL TAG NO. D 0070146

Drilling Permit No. 9704518-876513
Water right or injection well # _____

2. OWNER:

Name Jim & Michele Connelly
Address 11690 Orchard Ave.
City Nampa State ID Zip 83651

3. WELL LOCATION:

Twp 3 North ☒ or South ☐ Rge 2 East ☐ or West ☒
Sec 18 1/4 SE 1/4 SW 1/4

Gov't Lot _____ County Canyon
Lat 43 35.455 (Deg and Decimal minutes)
Long 116 37.611 (Deg and Decimal minutes)
Address of Well Site 11690 Orchard Ave.
City Nampa

Lot _____ Blk _____ Sub Name _____

4. USE:

☐ Domestic ☐ Municipal ☐ Monitor ☒ Irrigation ☐ Thermal ☐ Injection
☐ Other _____

5. TYPE OF WORK:

☒ New well ☐ Replacement well ☐ Modify existing well
☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☒ Air Rotary ☐ Mud Rotary ☐ Cable ☐ Other _____

7. SEALING PROCEDURES:

Seal material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method/procedure
3/4 Bent.	0	40'	55 bags	16" Borehole

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing Liner	Threaded	Welded
10"	+2	78'	.250	Steel	☒	☐	☒

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 78'

9. PERFORATIONS/SCREENS:

Perforations ☐ Y ☒ N Method _____
Manufactured screen ☒ Y ☐ N Type Alloy
Method of installation Pullback

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
80'	100'	.020		8"	SS	N/A

Length of Headpipe 10' Length of Tailpipe _____

Packer ☒ Y ☐ N Type K-packer

10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method
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11. FLOWING ARTESIAN:

Flowing Artesian? ☐ Y ☒ N Artesian Pressure (PSIG) _____
Describe control device _____

12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) 30' Static water level (ft) 12'
Water temp (°F) 56° Bottom hole temp (°F) _____
Describe access port Well Cap

Well test:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)
68'	500-600	45 minutes

Test method:

Pump	Bailer	Air	Flowing artesian
☐	☐	☒	☐

Water quality test or comments: Iron 1, PH 7.5, Hardness 7

13. LITHOLOGIC LOG and/or repairs or abandonment:

Bore Dia. (in)	From (ft)	To (ft)	Remarks, lithology or description of repairs or abandonment, water temp.	Water	
				Y	N
16"	0'	3'	Topsoil		X
16"	3'	40'	Silty Clay		X
10"	40'	60'	Silty Clay		X
10"	60'	100'	Gravel	X	

RECEIVED

SEP 08 2015

WATER RESOURCE:
WESTERN REGION:

Completed Depth (Measurable) 80' 100'

Date Started Aug 28, 2015 Date Completed Sep 2, 2015

14. DRILLER'S CERTIFICATION:

I/We certify that all minimum well construction standards were complied with at the time the rig was removed

Company Name Adamson Pump & Drilling Co No 457

*Principal Driller Dan Adamson Date Sep 3, 2015

*Driller Jim Sutter Date Sep 3, 2015

*Operator II _____ Date _____

Operator I Carson Smith Date Sep 3, 2015

* Signature of Principal Driller and rig operator are required

		Overlap Analysis for License Review 63-34039 (Connelly)																								
TRS	Process	BasinSequence	Draft	Owner	Source	PODPOU	Use	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	TotalAcres		
03N02W18	Water Permit	63-34039	N	CONNELLY, JIM; CONNELLY, MICHELE	GROUND WATER	POD													X							
03N02W18	Water Right	63-11669	N	CARL F CHASE TRUST	GROUND WATER	POD																				
03N02W18	Water Right	63-20657	N	CARL F CHASE TRUST; JOYCE M CHASE TRUST	GROUND WATER	POD																	X			
03N02W18	Water Right	63-20658	N	CARL F CHASE TRUST; JOYCE M CHASE TRUST	GROUND WATER	POD													X							
				Chase Trust wells are all located east of the Stone Lateral. The family farmhouse no longer exists.																						
				No true overlaps																						
TRS	Process	BasinSequence	Draft	Owner	Source	PODPOU	Use	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	TotalAcres		
03N02W18	Water Permit	63-34039	N	CONNELLY, JIM; CONNELLY, MICHELE	GROUND WATER	POU	IRRIGATION													3				3		
03N02W18	Water Right	multiple 63-	N	CITY OF NAMPA; multiple WRs with the same POU	GROUND WATER	POU	MUNICIPAL	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	3		
03N02W18	Water Right	63-11669	N	CARL F CHASE TRUST	GROUND WATER	POU	IRRIGATION									35	2		X	4	15	38	30	18	142	
03N02W18	Water Right	63-20658	N	CARL F CHASE TRUST; JOYCE M CHASE TRUST	GROUND WATER	POU	DOMESTIC												X							
03N02W18	Water Right	63-20658	N	CARL F CHASE TRUST; JOYCE M CHASE TRUST	GROUND WATER	POU	STOCKWATER												X							
03N02W18	Water Right	multiple 63-	N	PIONEER IRRIGATION DISTRICT; multiple WRs with the same POU	BOISE R and GW	POU	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
					within the City of Nampa service territory but not using municipal water																					
					within Pioneer Irrigation District service territory but not using Pioneer's water																					
					Chase Trust water rights are used on the east side of the Stone Lateral																					
					No true overlaps																					

Edl, Michele

From: Edl, Michele
Sent: Thursday, August 25, 2016 4:45 PM
To: 'michele.connelly@hotmail.com'
Subject: permit 63-34039
Attachments: 63-34039 POU sat image June 2016.jpg; 63-34039 POU google 4_2016.jpg

Michele Connelly,

After this morning's phone conversation, I confirmed that the area of your property is still open for a new appropriation of ground water.

The process for obtaining an additional water right begins when you send us a completed Application for Permit. The type-enabled form can be found on our web site at <https://idwr.idaho.gov/files/water-rights/application-for-permit.pdf> and the instructions are located <https://idwr.idaho.gov/files/water-rights/application-for-permit-instructions.pdf>. If you have a copy of Permit 63-34039 handy, you can use it as a reference for legal addresses of the place-of-use and the point-of-diversion.

I reviewed the irrigation shapes for permit 63-34039 again this afternoon. I found that you had irrigated approximately 0.8 acres within the development period (June 22, 2015 to June 28, 2016) of the permit.

Although we don't have airplane based photography for 2016 yet, IDWR does have satellite imagery for 2016. I have attached a .jpg file of satellite imagery dated June 28, 2016 which does show irrigation on your property. The red color indicates recent or ongoing water use.

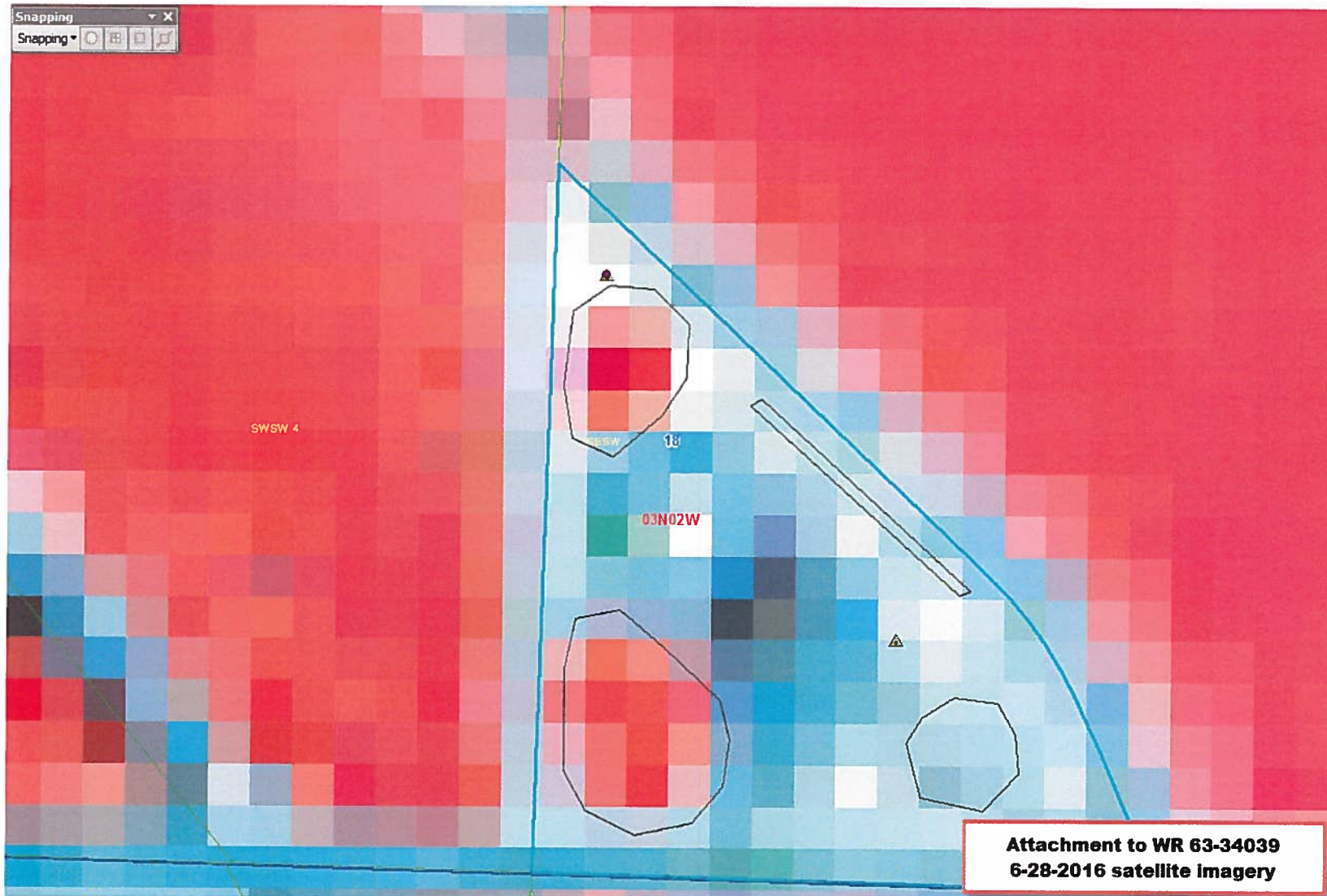
The black outlines are the shapes I created of your existing garden spaces. Those outlined shapes are based on a combination of Google Earth imagery, dated April 2016, and IDWR's aerial photography from 2015. For your reference I have also attached a .jpg of the Google Earth image that I used.

To summarize,

- 1) You did put water to use for irrigation during the development period of permit 63-34039 but it wasn't as much as you had originally intended.
- 2) You can get another permit for the additional water use you have planned.

I hope to complete the processing of water right 63-34039 from permit up to license status before the end of the month. If you have any additional questions about any of this, don't hesitate to call me (287-4946) or email me.

Sincerely,
Michele Edl



Identify from: Taxlots

Taxlots

CONNELLY JAMES E AND MICHELE CHASE TRU

Location: 2,287,910.705 1,380,033.299 Meters

Field	Value
ID	5892859
UPDATED	3/8/2016
PIN	R3144401000
OWNER	CONNELLY JAMES E AND MICHAEL CHASE TRU
ADDRESS1	11690 ORCHARD AVE
ADDRESS2	<null>
CITY	NAMPA
STATE	ID
ZIPCODE	83651
P_ADDRESS	11690 ORCHARD AVE
P_ZIPCODE	83651
SUB_NAME	
LEGAL1	18-3N-2W SW TX 13122 IN SWSW
LEGAL2	<null>
LEGAL3	<null>
LEGAL4	<null>
LEGAL5	<null>
LEGAL6	<null>
ACRES	3.7
COUNTY	Canyon
SOURCE	<null>
YEAR_BUILT	2013



**Attachment to WR 63-34039
4-1-2016 Imagery**

Google earth

11690 W Orchard Ave

Imagery Date: 4/1/2016

43°35'29.13" N 116°37'39.36" W elev: 2457 ft

Eye alt: 3393 ft

Block, Darla

From: Michele Connelly [michele.connelly@hotmail.com]
Sent: Tuesday, July 12, 2016 2:46 PM
To: Edl, Michele; Block, Darla
Subject: RE: permit 63-34039 request for extension

Hi Darla and Michele,

We would like to withdraw our proof statement and request an extension to the development period under this permit.

Thanks,

Michele and Jim

From: Michele.Edl@idwr.idaho.gov
To: michele.connelly@hotmail.com
CC: Darla.Block@idwr.idaho.gov
Subject: permit 63-34039 request for extension
Date: Tue, 12 Jul 2016 18:57:34 +0000

Hello again Michele,

Based on our phone conversation of earlier today, I understand that you would like to develop additional use of water under your permit 63-34039. That permit authorized 3 acres of irrigation but as I stated over the phone, my review of recent aerial photography shows less than 1 acre has been irrigated.

It appears that you submitted the Statement of Completion for Submitting Proof of Beneficial Use (aka Proof statement) a little prematurely. You have the option of withdrawing your Proof statement and requesting an extension to the development period under this permit.

To do those steps, you will need to connect with Darla Block and I have cc'd her with this message. You may contact her at 287-4945 or Darla.block@idwr.idaho.gov

Best wishes,
Michele Edl

Edl, Michele

From: Edl, Michele
Sent: Tuesday, July 12, 2016 12:58 PM
To: 'michele.connelly@hotmail.com'
Cc: Block, Darla
Subject: permit 63-34039 request for extension

Hello again Michele,

Based on our phone conversation of earlier today, I understand that you would like to develop additional use of water under your permit 63-34039. That permit authorized 3 acres of irrigation but as I stated over the phone, my review of recent aerial photography shows less than 1 acre has been irrigated.

It appears that you submitted the Statement of Completion for Submitting Proof of Beneficial Use (aka Proof statement) a little prematurely. You have the option of withdrawing your Proof statement and requesting an extension to the development period under this permit.

To do those steps, you will need to connect with Darla Block and I have cc'd her with this message. You may contact her at 287-4945 or Darla.block@idwr.idaho.gov

Best wishes,
Michele Edl

Edl, Michele

From: Edl, Michele
Sent: Monday, July 11, 2016 5:58 PM
To: 'michele.connelly@hotmail.com'
Subject: permit 63-34039

Michele Connelly,

I left a voice mail message earlier today. Because the mailbox didn't identify itself, I am not confident that I connected with you.

This email is intended as duplicate message.

I have been assigned to review the water right file for permit 63-34039 and if possible to complete the final processing steps. I have reviewed recent aerial photography and have found some evidence of irrigation use in the days before you submitted the Statement of Completion for Proof of Beneficial Use.

Although I can recommend some irrigation use be licensed, I have some questions about the wells on your property and the potential overlap of other water rights.

At your earliest convenience, please call me at 287-4946.

Sincerely
Michele Edl
IDWR
322 E Front St
Boise, ID 83720