

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

A. GENERAL INFORMATIONPermit No: 57-11681

Exam Date: 03-28-16

1. Does this qualify for an in-office field exam (IDAPA 035.02.r)? X Y Na. 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: Turner

Owner of Record Correct? X Y NAddress of Record Correct? X Y N

If No: Address:

3. Beneficial Use Fees have been paid: X Y N Receipt No: W043926**4. SOURCE****TRIBUTARY**

Spring

Snake River

Method of Determination: GIS Imagery

Change in Source:

 Y X N**B. OVERLAP REVIEW**1. Other water rights with the same place of use: NO Overlap

Water Right No.	Source	Purpose of Use	Basis
57-10229	Groundwater	Domestic/Stockwater	Decreed
2-7384	Snake River	Irrigation	Decreed
2-7095	Snake River	Irrigation	Decreed
2-2178	Snake River	Irrigation	Decreed
2-2276	Snake River	Irrigation	Decreed
2-64	Snake River	Irrigation	Decreed
2-65	Snake River	Irrigation	Decreed
2-10416	Snake River	Irrigation	Decreed

Comments: POU PIN: RP04N05W293020A 57-10229 for 34 head of stock, 13,000 gal/day restriction. 2-2178, 2-7095, & 2-7394 for a combined total acres of 300.

Gem Irrigation District: 2-2276, 2-64, 2-65, & 2-10416 are Gem Irrigation District Rights. There is water delivery to the POU as described in the conditions of overlapping rights 2-7384, 2-7095, & 2-7095.

See Memo in file dated 04/04/2016

2. Other water rights with the same point of diversion: X NO Overlap

Water Right No.	Source	Purpose of Use	Basis

Comments: 57-11681 – Groundwater 2-7095, 2-2178, 2-7384 – Snake River

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

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
Spring	3	SE	SW	SW	20	04N	05W	B.M.	Owyhee
								B.M.	

Method of Determination: GIS Imagery and application information.

Change in POD? ____Y__X__N Amendment Required? ____Y__X__N

2. **PLACE OF USE:** Use: Domestic

TWP	RGE	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
04N	05W	29						2.0											
		Lot #						8											
Total Acres =																			

Method of Determination: Home visible on GIS imagery. POU PIN: RP04N05W293020A

Use: Stockwater

TWP	RGE	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
04N	05W	29						X											
		Lot #						8											
Total Acres =																			

Method of Determination: Stockwater - GIS Imagery

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	
04N	05W	29						X											
		Lot #						8											
Total Acres =																			

Method of Determination: Irrigation- Per taxlot info, Acres of property is 3.4 acres. (PIN RP04N05W293020A)

Change in POU? ____Y__X__N Amendment Required? ____Y__X__N

___ 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

*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: < _____ >

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method:

Domestic:

Per Application Processing Memo #22, 0.04 cfs for domestic use, with yard. 0.02 cfs for domestic, no yard.
Yard excluding condition – 0.02 cfs

Stock:

Per App. Processing Memo #3, 51-100 livestock, 0.03 cfs

Per Dan N. - If cows are feeding on the nearby pivots with the trough located in the POU, then 100 head is possible.

Irrigation:

Per App. Processing Memo #17, up to 0.03 cfs/acre for irrigation up to 5 acres acceptable 2.0 acres(0.03 cfs) = 0.06 cfs

Permit allowed = 0.04 cfs domestic, 0.03 cfs stock, 0.10 cfs irrigation**License recommend for 0.02 cfs domestic, 0.03 cfs stock, 0.06 cfs irrigation.****F. VOLUME CALCULATIONS**

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 2.0 \times 4.5 = 9.0$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.06 \times 260 \times 1.9835 = 30.9$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 9.0$$

2. Volume Calculations for Other Uses:

Domestic:

Per Application Processing Memo #22, 1.2 afa for domestic use, with yard. 0.6 afa for domestic, no yard.
Condition indicating irrigation component covers all yard irrigation. Recommend 0.6 afa

Stock:

Per App. Processing Memo #3, 51-100 livestock, 1.4 afa

License recommend for N/A afa irrigation, 0.6 afa domestic, 1.4 afa stock. Irr. exempt IDAPA 37.03.02(j)(vii)**G. PURPOSE OF USE**

Irrigation ___Y___ # Stock___100___ Domestic # of Homes ___1___

Other:

Change in Purpose of Use? ___Y___X___N

Method of Determination: GIS Imagery and Application Information

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

H. NARRATIVE/REMARKS/COMMENTS

Season of Use: 03/1-11/15

Headgate: 4.5

Cons. Use: 3.5

Groundwater District: None

Water District: None

Wild and Scenic Watersheds:None

Conditions:

	Domestic Use when combined with 57-10229 is limited to 0.6 afa for internal use only.
	Stockwater Use when combined with 57-10229 is limited to 1.4 afa.
W01	Use of this right is combined with water from Gem Irrigation District.
K06	This right is limited to the irrigation of 2.0 acres within the place of use described above in a single irrigation season.
R69	This right when combined with all other rights shall provide no more than 0.03 cfs per acre nor more than 4.5 afa per acre at the field headgate for irrigation of the place of use.
132	Domestic use is for 1 home. Irrigation of lawn, garden and landscaping associated with the home is authorized under the irrigation component of this right.
103	When ordered by the Director, the right holder shall provide mitigation acceptable to the Director to offset depletion of lower Snake River flows needed for migrating anadromous fish. The amount of water required for mitigation which is to be released into the Snake River or a tributary for this purpose, will be determined by the Director based upon the reduction in flow caused by the use of water pursuant to this right. Any order of the Director issued in accordance with this paragraph shall be in conformance with applicable rules allowing the right holder due process as the need for mitigation and the amount of mitigation are determined.

See Memo in file dated 04/04/2016

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>
Domestic	01/01 to 12/31	0.02 CFS	0.6 AF
Stockwater	01/01 to 12/31	0.03 CFS	1.4 AF
Irrigation	03/01 to 11/15	0.06 CFS	N/A AF
Exempt IDAPA 37.03.02(j)(vii)			
<u>Totals:</u>		0.11 CFS	2.0 AF

2. Recommended Amendments

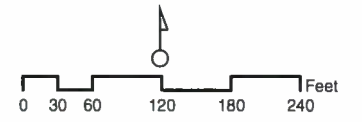
☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☒ None

Other:

J. AUTHENTICATION

Field Examiner's Name  Date 04/05/16Reviewer  Date 4-5-16

57-11681



2015 Imagery

03/31/2016

D. Favreau

SWSW 3

SWSW

SESW

20

04N05W

NWNW 8

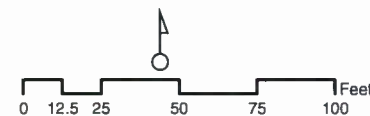
29

NENW

NENW 8



57-11681



ESRI Imagery

03/31/2016

D. Favreau

SWSW

20

SWSW 3

Spring Works

SES

04N05W

NEN

NWNW 8

29

NENW

Source: Esri, DigitalGlobe, GeoEye, I-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

MEMORANDUM

TO: FILE 57-11681
FROM: DANIELLE FAVREAU
SUBJECT: IN-OFFICE EXAM REVIEW – OVERLAP ANALYSIS
DATE: APRIL 4, 2016
CC:

Issue with Overlapping Rights:

Permit 57-11681 is for domestic use of 0.04 cfs, stockwater use of 0.03 cfs, and irrigation use for 0.10 cfs from Spring tributary to Snake River. 57-11681 is in the name of Dennis Turner.

Domestic/Stockwater Overlap

Water Right 57-10229 is for domestic use of 0.04 cfs and stockwater use of 0.04 cfs from Groundwater. 57-10229 is in the name of Dennis Turner & Debra Turner.

Domestic and Stockwater POU for both 57-11681 & 57-10229 is 04N05W29 NWNW.

There is only one home visible on GIS imagery in 04N05W29 NWNW. Therefore, Permit 57-11681 and Right 57-10229 are for the same home.

There is no evidence in the GIS Imagery that there is additional stock use besides that on the 3.4 acres taxlot where the home is located as the rest of the QQ is irrigated pivot. Therefore, Permit 57-11681 and Right 57-10229 are for the same stockwater use although 57-11681 is for an additional 66 head.

Although 57-10229 has a 13,000 gal/day limiting condition, 57-11681 does not.

Add Conditions:

Domestic Use when combined with 57-10229 is limited to 0.6 afa for internal use only.
Stockwater Use when combined with 57-10229 is limited to 1.4 afa.

Irrigation Overlap

Water Rights 2-2178, 2-7095, & 2-7384 are for irrigation use of a combined 300 acres from the Snake River. Water Rights 2-2178, 2-7095, & 2-7384 are in the name of Dennis Turner & Debra Turner.

Water Rights 2-2178, 2-7095, & 2-7384 all have some version of condition K06 limiting the irrigation of acres in the POU. Water Rights 2-2178, 2-7095, & 2-7384 also have the condition "The rights listed below are limited to the irrigation of a combined total of 300 acres in a single irrigation season. Combined Right Nos.: 2-2178, 2-7095, & 2-7384."

- The presence of these conditions indicate that Water Rights 2-2178, 2-7095, & 2-7384 are a permissible place of use.
- The PPU is also supported by the GIS shape for Water Rights 2-2178, 2-7095, & 2-7384 being the same but larger than the 300 acres.

Analysis of GIS Shape of Water Rights 2-2178, 2-7095, & 2-7384.

- The GIS Shape is 308.2 acres in size.
 - o 3 acres of which are along the north, south and west edges. These edge QQ are not listed in the water right as being part of the POU.

Township	Range	Section	Lot	QQ	WR AC	GIS AC
04N	05W	19		NESE	37	40
		19		NWSE	5	2
		19		SESE	40	40
		20	3	SWSW	26	25
**		29	8	NWNW (& NENW)	54	54
**		29	7	SENW (& SWNW)	56	56
		30		NENE	41	41
		30		SENE	41	41
				Total:	300	299
Additional GIS Acres						
04N	05W	20		SWSW		2
		29		NENW		4
		29		SENW		0.8
				Total:	N/A	6.8

** Lots 8 and Lots 7 were not appropriately described at the QQ level.

The total of 54 acres for Lot 8 includes the NWNW and part of the NENW.

The total of 56 acres for Lot 7 includes the SWNW and part of the SENW.

Upon review of GIS Shape over time, it appears that the 6.2 acres of land along the River are irrigated and were considered parts of their adjacent lots.

- 04N05W 20 SWSW – part of lot 3
- 04N05W 29 NENW – part of lot 8.
- 04N05W 29 SENW – part of lot 7.

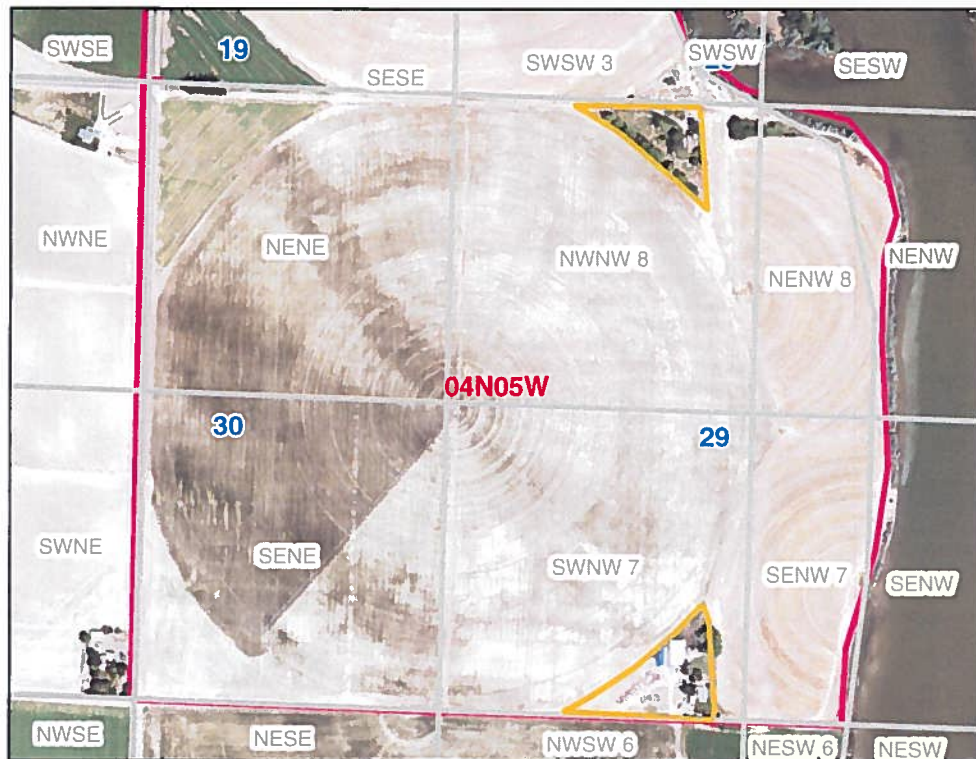
Conclusion regarding overlap with Water Rights 2-2178, 2-7095, & 2-7384

Upon review of GIS imagery over time, the 2 eastern corners associated with the same large pivot in the NWNW and SWNW of Sec. 29 Twp 04W Rng 05W are not historically irrigated with water from the Snake River. These corners are approximately a combined 5 acres. A more accurate shape for Water Rights 2-2178, 2-7095, & 2-7384 would have holes in it for these corners bringing the shape more in line with the total acres of the right.

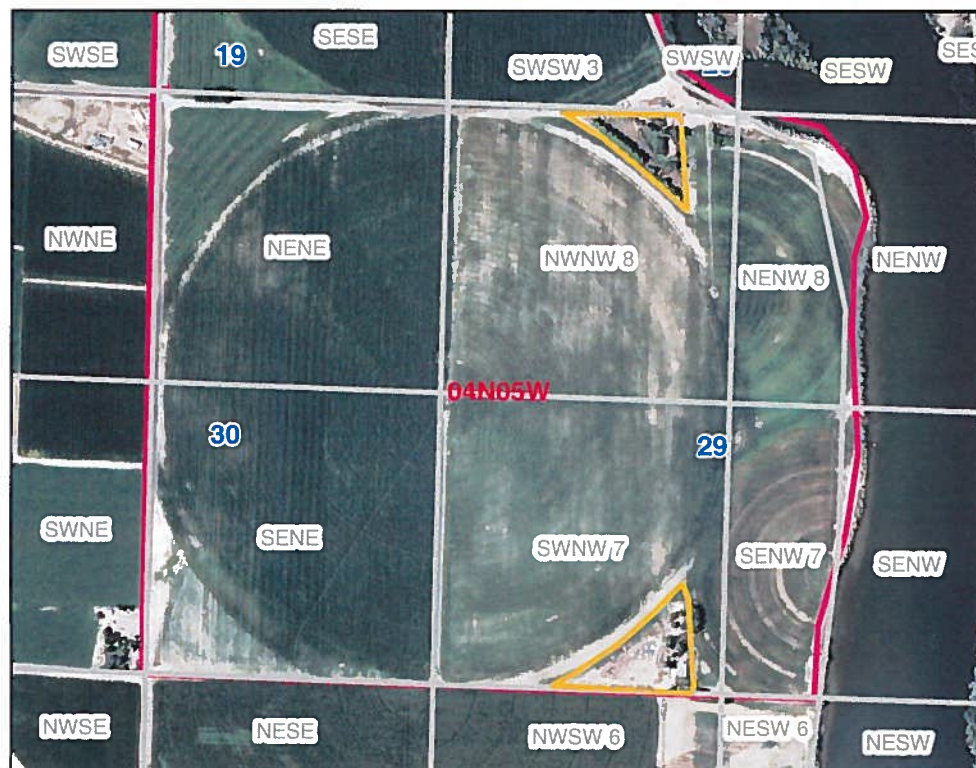
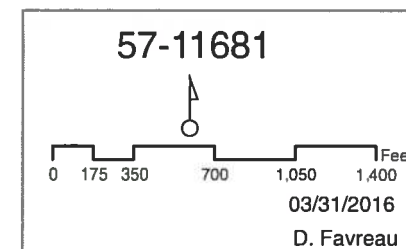
The irrigation component of 57-11681 is for the corner in the NWNW of Sec. 29 Twp 04W Rng 05W. It is not overlapped by Water Rights 2-2178, 2-7095, & 2-7384.

Overlap with Gem Irrigation District

Gem Irrigation District: 2-2276, 2-64, 2-65, & 2-10416 are Gem Irrigation District Rights. There is water delivery to the POU as described in the conditions of overlapping rights 2-7384, 2-7095, & 2-7095. There is no clear evidence that there is not water delivery from Gem Irrigation District. Add Condition W01.



2015 NAIP



2009 NAIP

Adjudication Imagery

