

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

Permit No: 73-12048Does this qualify for an in-office field exam (IDAPA 035.02.r)? X Y ___ N

Is the permit for:

- 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 X Y ___ N

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 INFORMATIONExam/Review Date: 8/13/12 In-house1. Is the Owner of record correct (y/n): YesIf **NO**: Owner: _____

Is the Address of record correct (y/n): YesIf **NO**: Address: _____

If available:

Phone No: Barry Dopp 208-879-4100 E-mail: bdopp@fs.fed.us
(Primary)Phone No: _____ E-mail: _____
(Secondary)

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

 YES 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.	Gov t. Lot	¼	¼	¼	Sec	Twp.	Rge.	County	Method of Determination/Remarks
		SW	NE	SW	36	14N	20E	Custer	GIS analysis with 2010 Bing Maps

Method of Determination/Remarks: Correlation of Forest Service map supplied with application for permit and cross referenced with GIS using Bing Maps and (2011) 1-meter imagery. Application POD is incorrect at NWNESW for spring location, should be SWNESW.

 YES Amendment Required (y/n)?

 X59: Point of diversion is located within <Lot 4, Blk. 3, Wilderness Subdivision>.

C. SOURCE:

 No Change in Source (y/n)?

If yes:

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

Source: Unnamed Spring tributary to Sinks

Method of Determination/Remarks: Green vegetation identified using GIS and Bing Maps and (2011) 1-meter imagery. The location correlates with map supplied with application for permit.

 B01: Source is also known as .

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D. PLACE OF USE:

Yes 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	
14N	20E	36													XX	XX			

Or:

See attached map (goto I.)

Method of Determination/Remarks: Troughs identified using GIS and Bing maps and (2011) 1-meter imagery. See attached maps for pictures. Trough in section 36 placed directly on the section line. Adjusting POU to reflect both QQ's.

Yes Amendment Required (y/n)?

X60: Place of use is located within <Lots 1-10, Blk. 3; Lot 1-10, Blk. 4; Lots 1-15, Blk. 5; and Lots 1-10, Blk. 6; Mountain Ridge Subdivision>.

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

X 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

For irrigation rights only:

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____(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:

X 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:

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

Use ____ From ____ To ____ Amount ____ CFS ____ AFA

Use ____ From ____ To ____ Amount ____ CFS ____ AFA

Use ____ From ____ To ____ Amount ____ CFS ____ AFA

Method of Determination/Remarks: **262 pair cattle as determined on application for permit.**

Non-irrigation uses:

Domestic # of homes _____

Stock # **262 pair cattle**

Other: _____

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.

Recommendation from Application Processing Memo #3 allows for .14cfs for 501-600 head. Permit requests 0.02 cfs which is less than recommended amount.

Recommend .02 cfs

Notes/Remarks: **Applicant requesting 0.02 cfs for stockwater from May 1 to October 31.**

H. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

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

I.R.

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

D.R.

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

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: **Stockwater**

$$262 \text{ pair cattle} \times 2 \text{ pair} \times 12 \text{ gal/day} \times 184 \text{ days} = 1,156,992 \text{ gal}$$

$$1,156,992 \div 325,850 = 3.5 \text{ AFA}$$

Recommendation from Application Processing Memo #3 allows for 8.1 AFA for 501-600 head. Recommend 3.5 AFA.

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:

- X Beneficial use
- X Place of use
- X Season of use
- X 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.

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

- ☒ Property tax information
☐ Well Driller Report
☐ Receipts
☐ Photographs
☒ Aerial photography (required for irrigation of 10+ acres)
☐ Other records of the permit holder
☒ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use
(REQUIRED). Scale must be 1:24,000 or greater.

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

(Use the WENET Layout application for this)

Map Output

Page Number
Page Orientation
Map Background
Map Output Type
☐ Create Editable Map
☒ Display POU Shape
☒ Display POD Shape
☐ Create Closeup Map of POU
☒ Print Attachment Page
☐ Is Amendment?
☐ Show Taxlots
☐ Show A Current Owner Name
Show Date On Map

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

NARRATIVE/REMARKS/COMMENTS

Reviewed conditions for compliance.

In-house exam for Forest Service stockwater permit 73-12048.

Using GIS with both Bing Maps and the 2011 1-meter imagery, I was able to identify the POD and both troughs. Their location correlates to the map supplied by Forest Service but the permit will need amended to correct both POD and one POU. The POD needs to be amended from T14N, R20E, Sec36, NW1/4NE1/4SW1/4 to SW1/4NE1/4SW1/4. The Trough #1 is located directly on the QQ line for T14N, R20E, Sec 36. This POU needs to be amended to include both the NESE and the NWSE of section 36. According to topographic maps, the spring elevation is roughly 7800 ft. The elevation of the first trough is 7400 ft and the second trough 7300 ft.

J. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
<u>Stockwater</u>	<u>5/1</u> to <u>10/31</u>	<u>.02</u> CFS	<u>3.5</u> AF

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Totals: _____ CFS _____ 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 ☐ None

K. AUTHENTICATION

Field Examiner's Name Glen Sandlin Date Aug 14, 2012

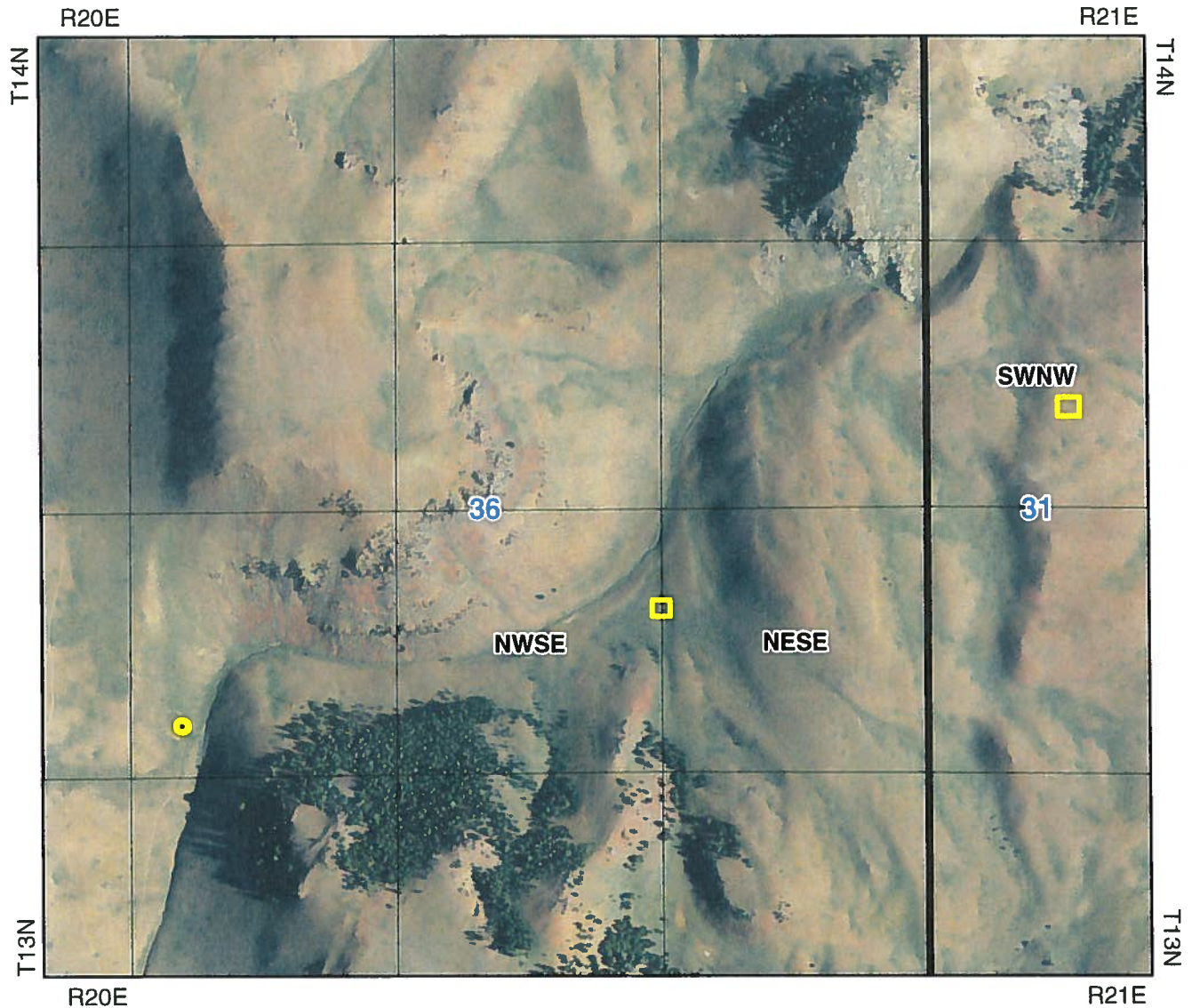
Reviewer _____ Date _____

State of Idaho
Department of Water Resources

Attachment For Amendment To Water Right License

73-12048

This map depicts the STOCKWATER 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.

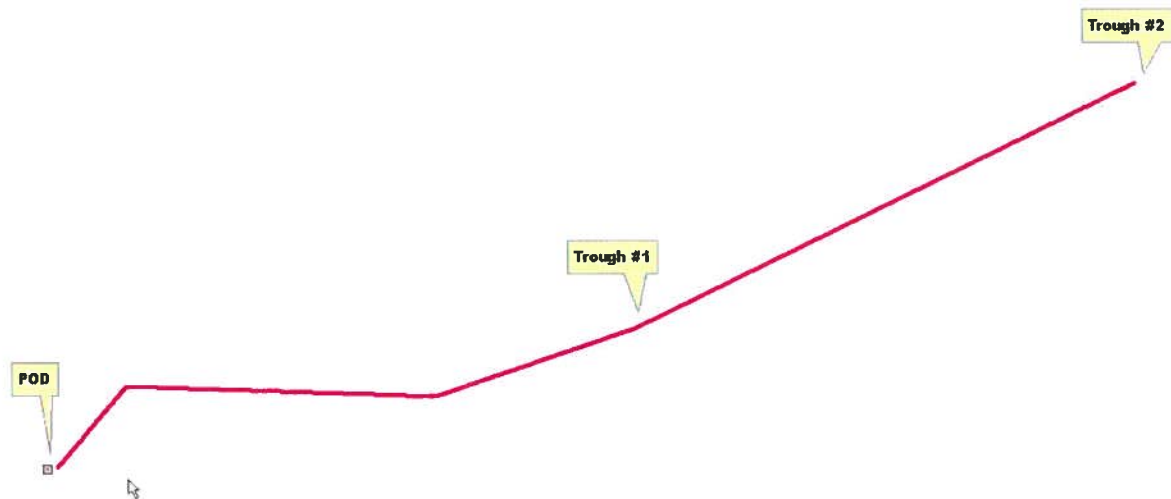


0 0.1 0.2 0.4 Miles

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



In-House Field Exam Map for 73-12048 System Diagram



Using GIS with both Bing Maps and the 2011 1-meter imagery, I was able to identify the POD and both troughs. (See pictures)

According to topographic maps, the spring elevation is roughly 7800 ft. The elevation of the first trough is 7400 ft and the second trough 7300 ft.

GIS photos using Bing Maps and 2011 Imagery
Glen Gardiner August 14, 2012
FILE NUMBER 73-12048



This photo shows the POD spring area.

GIS photos using Bing Maps and 2011 Imagery
Glen Gardiner August 14, 2012
FILE NUMBER 73-12048



This photo shows Trough #1.



This photo shows Trough #2.

Condition Review for WR # 73-12048

	Conditions listed on Permit	Comment
X02	~~Stockwater use is for 262 cow/calf pairs of range cattle.~~	Removed at licensing
R05	Use of water under this right will be regulated by a watermaster with responsibility for the distribution of water among appropriators within a water district. At the time of this approval, this water right is within State Water District No. 73.	OK
R37	This right, when considered with all other rights common to the same grazing allotment, is limited to the quantity of water beneficially used by the number of stock within the allotment.	OK
01P	Upon specific notification by the Department, the right holder shall install a lockable device of a type acceptable to the Department in a manner that will provide the watermaster suitable control of the diversion.	OK
26A	~~Project construction shall commence within one year from the date of permit issuance and shall proceed diligently to completion unless it can be shown to the satisfaction of the Director of the Department of Water Resources that delays were due to circumstances over which the permit holder had no control.~~	Removed at licensing
	Suggested Conditions	
01P	Upon specific notification by the Department, the right holder shall install a lockable device of a type acceptable to the Department in a manner that will provide the watermaster suitable control of the diversion.	Already listed
229	The system established for delivery of water to stock trough(s) under this right shall be fully enclosed and shall be equipped with an automatic shutoff valve or a mechanism for returning unused water to the source through an enclosed system. The water delivery system shall be designed to facilitate measurement of the rate of flow through the system.	Condition notes indicated added Oct 2010. Application dated Aug 2008. Condition not added.
184	~~The right holder shall report to IDWR when diversions commence under this right and from that time forward shall report by January 31 of each year all new municipal connections installed in the prior calendar year of a size greater than 4 inches in diameter. Each report shall include the size, capacity, and location of each connection required to be reported.~~	N/A
027	~~Use of water under this right shall be non-consumptive.~~	N/A
R02	~~A lockable device subject to the approval of the Department shall be maintained on the diverting works in a manner that will provide the watermaster suitable control of the diversion.~~	N/A, used 01P
R37	This right, when considered with all other rights common to the same grazing allotment, is limited to the quantity of water beneficially used by the number of stock within the allotment.	Already listed
R05	Use of water under this right will be regulated by a watermaster with responsibility for the distribution of water among appropriators within a water district. At the time of this approval, this water right is within State Water District No. &DISTRICT.	Already listed

029	~~Prior to the diversion and use of water under this approval, the right holder shall comply with all fish screening and/or fish passage requirements of the Idaho Department of Fish and Game.~~	N/A
115	~~Prior to the diversion and use of water under this right, the right holder shall install and maintain acceptable measuring device(s), including data logger(s), at the authorized point(s) of diversion, in accordance with Department specifications.~~	N/A
111	~~This right authorizes the watering of livestock directly from the stream without a diversion.~~	N/A
238	~~This right authorizes the diversion of water to a trough from the same spring that is the source of water for Water Right < —————>, which was established pursuant to Public Water Reserve 107 and decreed in the Snake River Basin Adjudication.~~	N/A

Overlap Review for 73-12048

Type	WR #	Owner	Source	TRS	NENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	Total
Permit	73 12048	US DEPT OF AGRICULTURE,	SPRING	14N20E36										X				0
Right	73 4072	USDA FOREST SERVICE,	SPRING	14N20E36					X									0
Right	73 11940	UNITED STATES OF AMERICA	SPRING	14N20E36									X					0
Permit	73 12048	US DEPT OF AGRICULTURE,	SPRING	14N21E31				X										0
Right	73 12174	UNITED STATES OF AMERICA	SPRING	14N21E31										X			X	0