

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

Permit No: **73-11973**Does 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: 21Aug2012 1. Is the Owner of record correct (y/n): Yes If **NO**: Owner: _____

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

If available: **Nathaniel Arave, Hydrologist for BLM, Challis office**Phone No: 208-879-6215 E-mail: nathaniel_arave@blm.gov
(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.	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
		SW	SW	SE	6	13N	21E	Custer	GIS analysis with 2010 Bing Maps

Method of Determination/Remarks: Correlation of BLM system map and GIS Imagery using Bing Maps and (2011) 1-meter. Application for POD is incorrect at NENESW Sec 6 for spring location, should be SWSWSE Sec 6.

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: Spring tributary to Sinks

Method of Determination/Remarks: This permit is extension of system covered by WR # 73-2209. The POD and POU for 73-2209 are incorrect and will need amended by BLM.

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	21E	32														X			
14N	21E	29																X	
14N	21E	28											X						

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 #1 in Sec 32 NESE actually installed at Sec 32, NWSE, adjusting POU to reflect correct location. Trough #2 in section 29 SESE located directly on section line, adding POU Sec 28 SWSW to reflect additional location. Trough #3 in Sec 28 NWSE is correct.**

☐ **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

☒ 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:

_____(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:

Yes (y/n) Other water rights with the same point of diversion (POD)?

Research tools:

____ InfoSearch - Query for other water rights with the same POU
X Use ArcMap for overlapping POU

Water Right No.	Source	Purpose of Use	Basis
73-2209	Spring	Stockwater & Wildlife	Decreed

WR # 73-2209 does not show up in the POD overlap because the POD is listed incorrectly at T14N, R21E, Sec 6, NESW. The BLM is aware of this error and intends to file an amendment on 73-2209.

____ 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: _____

Non-irrigation uses:

Domestic # of homes _____

Stock # 250 head cattle

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.

Recommendation from Application Processing Memo #3 allows for .07cfs for 201-300 head. Permit requests 0.02 cfs which is less than recommended amount.

Recommend .02 cfs

Notes/Remarks: Applicant requesting 0.02 cfs for stockwater and wildlife from Jan 1 to Dec 31 and .

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.

$V = \text{Smaller of } V \text{ and } V =$
I.R. 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 and Wildlife**

250 cattle x 12 gal/day x 365 days = 1,095,000 gal

1,095,000 ÷ 325,850 = 3.3 AFA

Recommendation from Application Processing Memo #3 allows for 4.1 AFA for 201-300 head.
Recommend 3.3 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.

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

In-office/Field Examination Report

☒ 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

Portrait ▼

Map Background

2009 NAIP (True Color) ▼

Map Output Type

PDF ▼

☐ 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

The in-house field exam was completed using GIS Imagery (Bing Maps and 2011 1-meter) and telephone and e-mail communications with Nathaniel Arave from the Challis BLM office. Nathan submitted a shape file for their system diagram. Using this shape file, I was able to identify the POD and POU locations for this permit. (See e-mail from Nathaniel Arave to Glen Gardiner dated Aug 20, 2012). Nathan also submitted two photos, one of the POD and one of the three POU stockwater troughs. (See attached photos). Nathan's e-mail indicates the photo of the trough is representative of all new troughs installed which includes floating stops and shutoff valves.

This system is an extension of BLM WR# 73-2209 which was licensed by Partial Decree in April 2000. The POD for 73-2209 is on Forest Service land just east of Opal Springs but is not Opal Springs. Permit 73-11973 added three additional troughs to the end of the 73-2209 system. The approximate elevation of the POD is 7800 ft.

The first trough is located at T14N, R21E, Sec32, NWSE. This POU is different from the permit which located the trough in NESE of the same section. The elevation of this trough is approximately 7000 ft.

The second trough is located on the section line and includes T14N, R21E, Sec. 29, SESE and Sec. 28 SWSW. This POU is different from the permit which listed only Section 29 SESE. The POU will be amended to include both QQ's. The elevation of this trough is approximately 6750 ft.

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The third trough is located at T14N, R21E, Sec28, NWSE which matches the permit. The elevation of this trough is approximately 6550 ft.

All three troughs are located on BLM land.

Overlap analysis – Both WR# 73-2209 and 73-11973 share the same POD but the POU overlap is incorrect. WR # 73-2209 is incorrect and needs to be amended to reflect the correct POD and POU. The BLM office is aware of this and intends to submit amendment once 73-11973 is completed per Nathaniel Arave's e-mail. (See Overlap Report spreadsheet).

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>1/1</u> to <u>12/31</u>	<u>.02</u> CFS	<u>3.3</u> AF
<u>Wildlife</u>	<u>1/1</u> to <u>12/31</u>	<u>.02</u> CFS	<u>3.3</u> AF
_____	_____ to _____	_____ CFS	_____ AF
		<u>Totals:</u> _____ CFS	_____ AF

2. Recommended Amendments

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

☒ X Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other ☐ None

K. AUTHENTICATION

Field Examiner's Name Glenn Gardner Date 22 Aug 2012

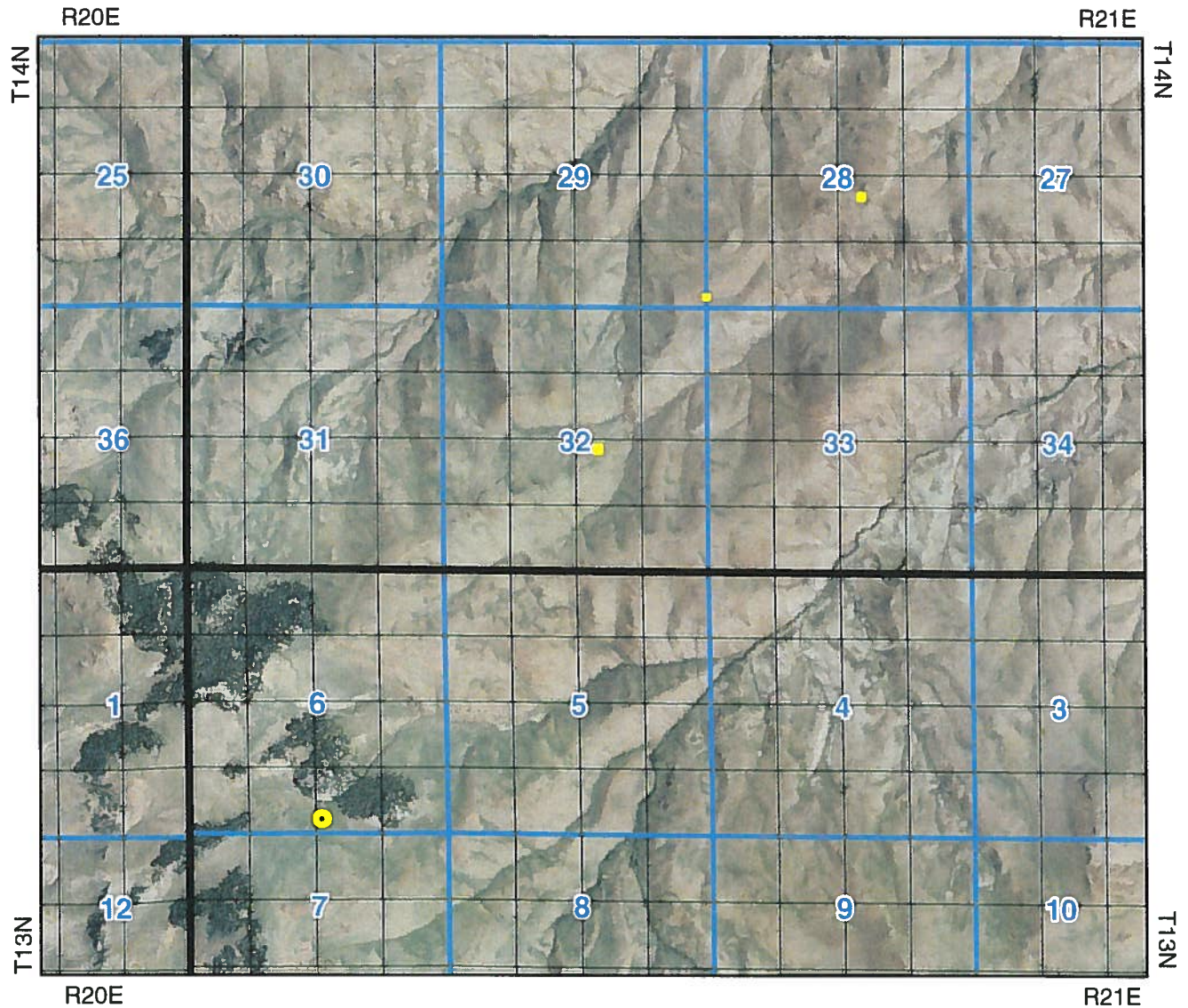
Reviewer _____ Date _____

State of Idaho
Department of Water Resources

Attachment For Amendment To Water Right License

73-11973

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 0.425 0.85 1.7 Miles

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

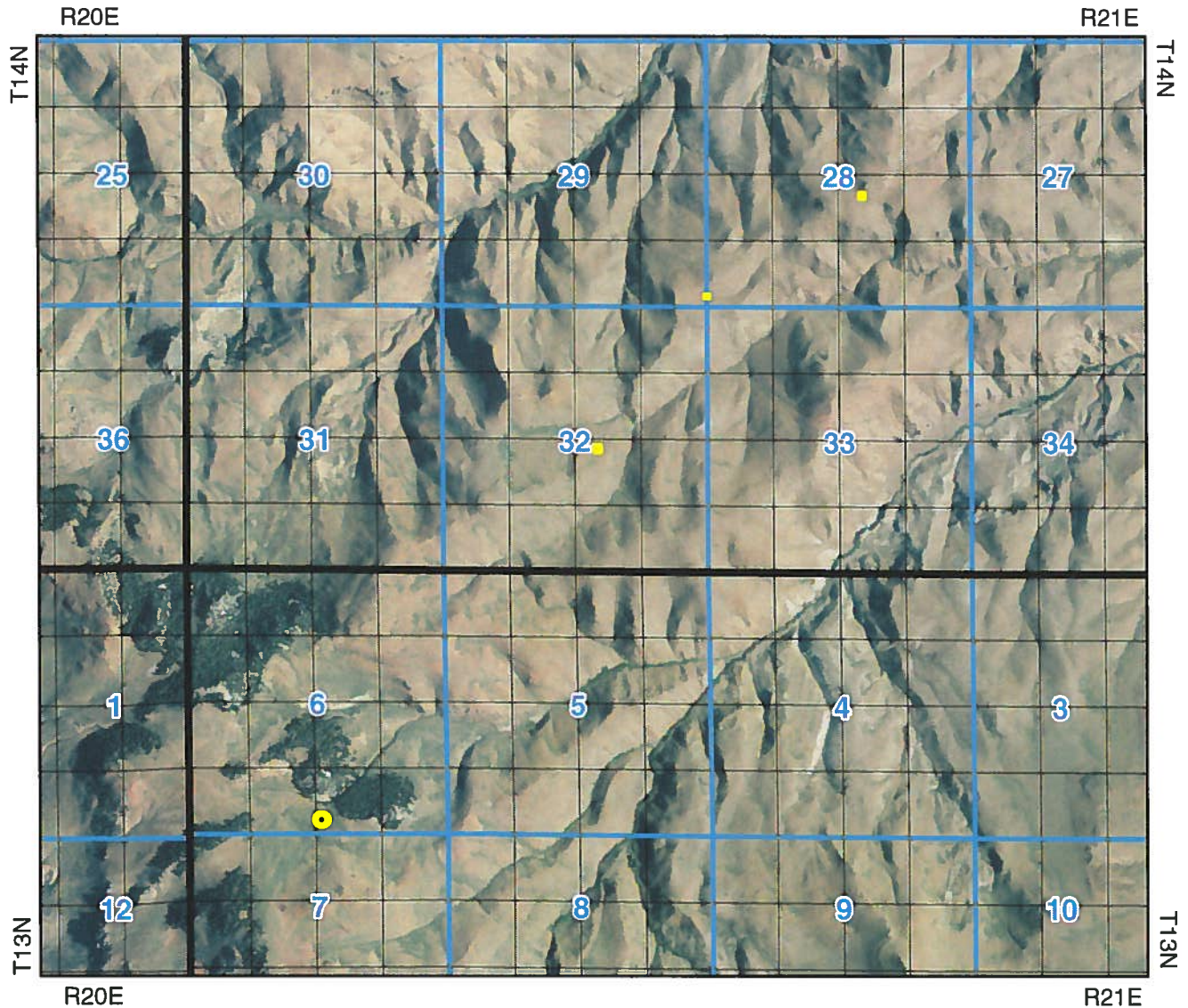


State of Idaho
Department of Water Resources

Attachment For Amendment To Water Right License

73-11973

This map depicts the WILDLIFE 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.



R20E

R21E

T14N

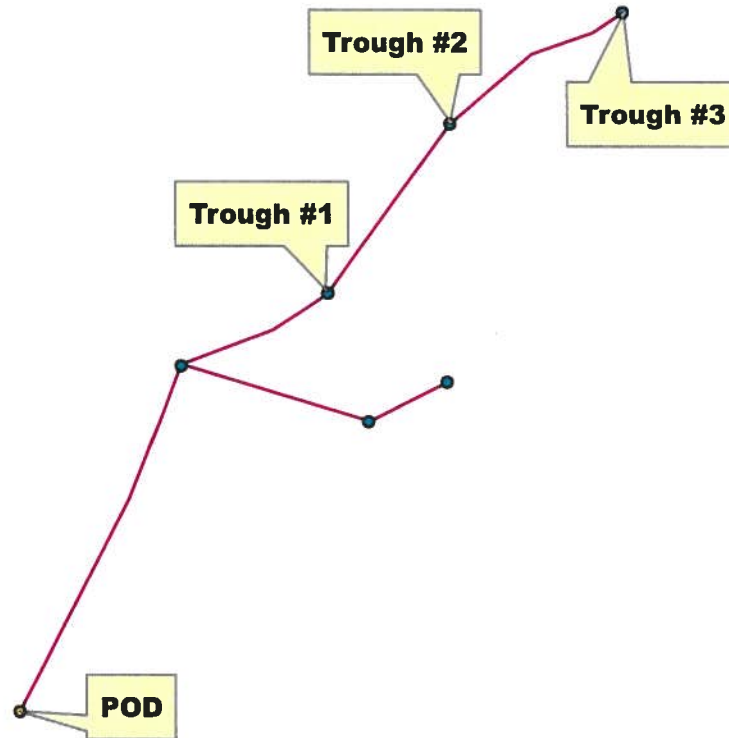
T13N

0 0.425 0.85 1.7 Miles

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



System Diagram for 73-11973



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All three troughs are located on BLM land.

