

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

A. GENERAL INFORMATIONPermit No: 94-9305

Exam Date: 08/04/2015

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

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: Junkin

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

3. Beneficial Use Fees have been paid:
- X
- Y
-
- N Receipt No: N031389

- 4.
- SOURCE**

North Fork CDA River

Method of Determination: GIS Imagery

Change in Source:

TRIBUTARY

CDA River

 Y X N**B. OVERLAP REVIEW**

1. Other water rights with the same place of use:
- X
- NO Overlap

Water Right No.	Source	Purpose of Use	Basis

Comments: POU: PIN: RP50N02E341400 2.1 Acres

94-9359 – for adjacent taxlot to north (PIN RP50N02E341405); 94-4044 – Adj. Claim by Smith (PIN RP50N02E341625), southeast of POU. Consistent with WR 94-4044 which is described in SWNE and NWSE.

94-7321, 94-7675, 94-8409, 94-8760, 94-9058, 94-9094 – domestic or domestic/stockwater uses.

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

Water Right No.	Source	Purpose of Use	Basis

Comments: Groundwater POD: 94-9359

C. DIVERSION AND DELIVERY SYSTEM

- 1.
- LOCATION OF POINT(S) OF DIVERSION:**

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
NF CDA River	5		SE	NW	34	50N	02E	B.M.	Shoshone

Method of Determination: GIS Imagery and application information.

Change in POD? Y X N Amendment Required? Y X N

2. PLACE OF USE:

Use: Irrigation

TW P	RGE	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
50N	02E	26			0.5					0.5									1.0
		Lot #			5					5									
Total Acres =																			1.0

Method of Determination: GIS imagery.

Use: Fire Protection

TW P	RGE	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
50N	02E	26			X					X									
		Lot #			5					5									
Total Acres =																			

Method of Determination: taxlot info.

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:

Per App. Processing Memo #17, up to 0.03 cfs/acre for irrigation up to 5 acres acceptable. 1.0 acres(0.03 cfs) = 0.03 cfs

No pump info. in file. Standard pump size of 1.0 HP sufficient for permitted cfs. See Theoretical Sheet

Permit allowed = 0.03 cfs

License recommend for 0.03 cfs. Irr. and fire protection

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.0 \times 3.0 = 3.0$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.03 \times 214 \times 1.9835 = 12.7$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 3.0$$

2. Volume Calculations for Other Uses:

No Volume required for Fire Protection Use.**No volume required:** Exempt: IDAPA 37.03.02(j) (viii)**G. PURPOSE OF USE**Irrigation ☒ Y ☐ N # Stock _____ Domestic # of Homes _____

Other: Fire Protection

Change in Purpose of Use? ☐ Y ☒ X ☐ N

Method of Determination: 1 building/trailer visible on 2013 GIS Imagery.

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

H. NARRATIVE/REMARKS/COMMENTS

Irrigation:

Headgate Requirement: 3.0, Consumptive Use: 2.0, Season of Use: 04/01 to 10/31

MSF 94-7341

Water District: None, Groundwater Management Area: None

Conditions:

Water shall not be diverted for fire protection use under this right except to fight or repel an existing fire

This right does not grant any right-of-way or easement across the land of another.

This right when combined with all other rights shall provide no more than 0.03 cfs per acre nor more than 3.0 afa per acre at the field headgate for irrigation of the place of use.

Water shall not be diverted under this right when flows in the Coeur d'Alene River are below minimum flow amounts as defined by Right 94-7341. The right holder shall be responsible for monitoring the daily flow of the Coeur d'Alene River using real-time data and shall cease diverting water when flows in the Coeur d'Alene River are below established minimum flow amounts. Unless otherwise specified by the Director of the Department of Water Resources, data from the U.S. Geological Survey Cataldo gauging station, No. 12413500, may be used for purposes of determining the daily flow amounts.

A fish screen of 0.25 inch or smaller mesh shall be installed and maintained at the point of diversion.

- Per email from D. Nelson dated 12/10/2014 – Not contacting owner regarding fish screen. Will carry condition onto license.

Have conditions of permit approval been met? ☒ X 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	04/01 to 10/31	0.03 CFS	N/A - IDAPA 37.03.02(j) (viii)
Fire Protection	01/01 to 12/31	0.03 CFS	N/A
<u>Totals:</u>		0.03 CFS	N/A

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

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

Other:

J. AUTHENTICATION

Field Examiner's Name *Daniel L. Turner* Date 08/04/15

Reviewer *Daniel A. Miller* Date 8-13-15

THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 94-9305
 Reviewer: D. Favreau
 Date of Review: 8/4/2015

P/D No.:	Senerio 1	Senerio 2	Senerio 3
PUMP HORSEPOWER	1	1	1
BOOSTER HORSEPOWER	0	0	0
PUMPING LEVEL	50	50	50
DISCHARGE PRESSURE	40	50	60
RATE OF FLOW (cfs)	0.04 19	0.04 17	0.03 15
			0.04 16.93

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:

The horsepower as indicated on appliation. The pressure was estimated by using the standard for pressure tank turn on and shut off of 40 to 60 psi. The lift was estimated using the maximum deliniation between the topo map's elevation lines along the property.