

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 67-8035

Exam Date: 4/30/2013

1. Current Owner: SHARLETT LEONARD
PO BOX 160
COUNCIL ID 83612
(208)253-0001

AND

ROBERT LEONARD
PO BOX 160
COUNCIL ID 83612
(208)253-0001

2. Accompanied by: Robert Leonard

Phone No: Same

Address: Same

Relationship to Permit Holder:

3. SOURCE

UNNAMED STREAM

TRIBUTARY

GROSSEN CREEK

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None
2. Other water rights with the same point of diversion: None

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

UNNAMED STREAM

NE1/4SW1/4

Sec. 11, Twp 16N, Rge 01W, B.M.

ADAMS County

Method of Determination: Arc Map (Aerial Photo)

2.

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
16N	01W	11									1.5								1.5

Total Acres: 1.5

WILDLIFE STORAGE same as IRRIGATIONIRRIGATION FROM STORAGE same as IRRIGATIONIRRIGATION STORAGE same as IRRIGATION

Method of Determination: Arc Map (Aerial Photo); Tax Lots.

3. ☒ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- ☒ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
- ☒ Aerial Photo Attached (required for irrigation of 10+ acres).
- ☒ Photo of Diversion and System Attached

4.

<u>Well or Diversion ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge Size</u>
N/A	N/A			N/A	N/A

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

D. FLOW MEASUREMENTS

1.

<u>Measurement Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
N/A						

2. Measurements: No field measurement. Approximate depth of high water mark in pipe = 3". Non-full pipe
Cross-sectional area calculator – $A = 0.19 \text{ ft}^2$. $Q = VA = 2 \text{ ft/sec} \times 0.19 \text{ ft}^2 = 0.38 \text{ cfs}$

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method: (Partially Full 36" CMP Culvert Pipe – Continuity Equation)

$$Q = VA = 2 \text{ ft/sec} \times 0.19 \text{ ft}^2 = 0.38 \text{ cfs}$$

$$V = 2 \text{ ft/sec (Estimated)}$$

$$A = 0.19 \text{ ft}^2 \text{ (Water Depth = 3")}$$

The 36" CMP inlet pipe has more than adequate capacity to attain the permit diversion rate of 0.16 cfs. However, since only 1.5 acres of lawn and landscaping is currently being irrigated from the storage pond, not 8.0 acres as indicated on the permit, recommend a diversion rate of 0.05 cfs.

0.05 AC
9/5/13

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.5 \times 4.0 = 6.0 \text{ AFA}$$

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

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 6.0 \text{ AFA}$$

2. Volume Calculations for Other Uses: (Irrigation/Wildlife Storage Pond)

Estimated Pond Dimensions: $35' \times 125' \times 10' = 43,750 \text{ ft}^3 \sim 1.0 \text{ ac.}$

$V(\text{Estimated}) = 1.0 \text{ AF} = V(\text{Permit})$

Recommended Volume of 1.0 AF

G. NARRATIVE/REMARKS/COMMENTS**WATER SUPPLY SYSTEM:**

Water from an unnamed stream is discharged to an irrigation and wildlife storage pond. A section of 36" CMP culvert pipe diverts water over a small irrigation ditch and discharges to a 1.0 AF storage pond. According to the right holder, the pond was constructed with bentonite to reduce seepage losses. Water is discharged from the storage pond through a rock spillway located at the southwest corner of the storage pond.

IRRIGATION SYSTEM:

A ½ HP Red Lion portable/trash pump, with a 1 ¼" discharge, diverts water from the pond for irrigation of the lawn and landscaping areas adjacent to the home. Approximately 150' of hose is attached to the pump to sprinkle irrigate.

OVERLAP ANALYSIS:

Although the right holder's property is located within the service areas of the Sorenson-Rinehart Ditch Company and the Lost Valley Reservoir Company, the right holder indicated that they do not have irrigation shares in which to appropriate for irrigation. Therefore, there are no point of diversion or place of use overlaps for Water Right Permit No. 67-8035.

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

CONDITION NO.5 (01H) – Prior to diversion of water under this right, the right holder shall install a lockable device. On August 30, 2013, Brandi Horton, Watermaster for District 67, agreed to waive the lockable device requirement.

CONDITION NO.6 (18A) – The right holder shall install/maintain permanent measuring devices in such a manner that the amount of water entering the reservoir and the amount of water released from the reservoir can be measured. On August 30, 2013, Brandi Horton, Watermaster for District 67, agreed to waive the measuring device requirement.

RATE &/OR STORAGE RECOMMENDED FOR LICENSING

Description	Rate of Flow (cfs)		Storage (af)
Permit Amount	0.16	&/or	1.0
Beneficial Use Limit	0.16	&/or	N/A
System Measurement	~~0.03~~ RC 0.05 9/5/13	&/or	1.0
Proof Fee Amount	0.20	&/or	N/A
Recommended Amount	~~0.03~~ RC 0.05 9/5/13	&/or	1.0

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
WILDLIFE STORAGE	1/01 to 12/31	N/A	1.00 AF
IRRIGATION FROM STORAGE	4/01 to 10/31	N/A	1.00 AF
IRRIGATION	4/01 to 10/31	~~0.030~~ CFS 0.05 RC 9/5/13	6.00 AF
IRRIGATION STORAGE	1/01 to 12/31	N/A	1.00 AF
<u>Totals:</u>		~~0.030~~ CFS 0.05 RC 9/5/13	7.0 AFA

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 ___ Other

I. AUTHENTICATION

Field Examiner's Name Rick Collingwood Date 9/3/13

Reviewer _____ Date _____

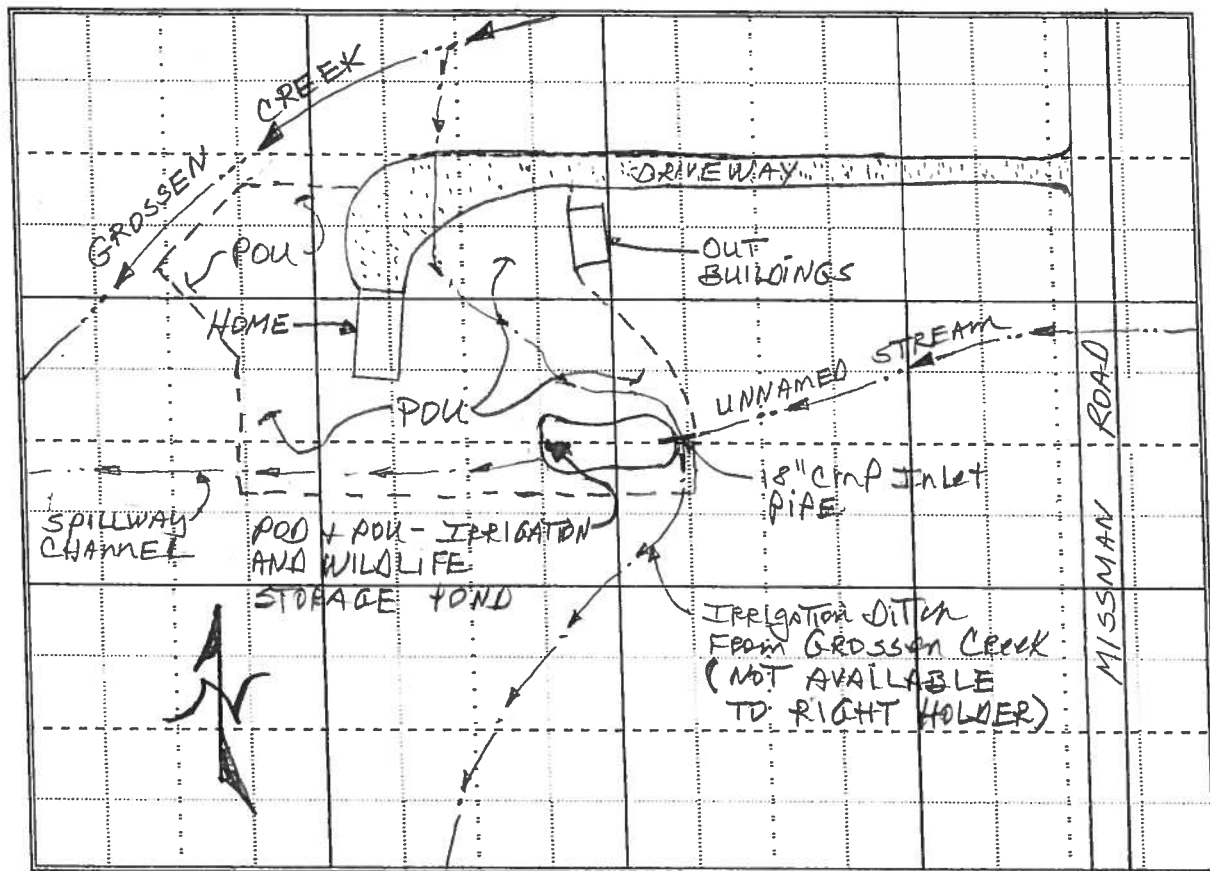
67-8035

ESRI AERIAL PHOTO - 2012



0 65 130 260 390 520
Feet

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe diameter (inside), as applicable. Use the space provided or ☐ see attached.



Scale: 1" = NTS

- ☐ Copy of USGS Quadrangle attached showing location(s) of point(s) of diversion and place(s) of use (required)
☒ Aerial photo attached (required for irrigation of 10+ acres)
☒ Photo of diversion and system attached

FIELD EXAM PHOTOS

Water Right Permit: 67-8035

Field Exam Date: 4-30-13

PLS: NE1/4, SW1/4 Section 11, T.16N, R.01W

Field Examiner: RC



Point of Diversion: View northeasterly of the 36" CMP diverting from an unnamed stream to an irrigation and wildlife storage pond.



Point of Diversion & Place of Use: View westerly of the 36" CMP discharge pipe and the irrigation and wildlife storage pond. The small ditch beneath the 36" CMP discharge pipe is an irrigation diversion from Grossen Creek. The right holder has no water right or shares from Grossen Creek to beneficially use the water.



Place of Use: View southeasterly of the lawn and landscaping which is irrigated from the storage pond. A portable ½ - hp is used to pump water from the pond. Long sections of hose are used to sprinkler irrigate.

Collingwood, Rick

From: Brandi Horton [watermaster67@hotmail.com]
Sent: Friday, August 30, 2013 2:11 PM
To: Collingwood, Rick
Subject: RE: Water Right Permit No. 67-8035

Hi Rick!

I did receive the info and request you sent me for 67-8035...and completely forgot to get back to you after looking into it. Been extremely busy, as you can imagine. Sorry! At any rate, I agree with your recommendation to waive the requirement for lockable and measuring devices. Grossen Creek and it's tributaries are the same as dried up in a good season, let alone a bad one, so there's usually not enough water for people to get excited about or call me in on. I'm almost never have a reason to measure anything there. Again, I'm sorry this took so long...

Have a Great Day!

Brandi Horton
Watermaster-District 67
2297 Snapp Ln.
Midvale, ID 83645
(208) 550-0313

Subject: FW: Water Right Permit No. 67-8035
Date: Mon, 26 Aug 2013 08:27:35 -0600
From: Rick.Collingwood@idwr.idaho.gov
To: watermaster67@hotmail.com

Brandi,

I have not received a response from you regarding the conditional requirements for a lockable and measuring device for Robert & Sharlett Leonard, WR Permit No. 67-8035. Just in case you didn't receive it, I am forwarding my request to you again.

Thanks,

Rick Collingwood, P.E.
Water Resource Agent, Sr.

From: Collingwood, Rick
Sent: Tuesday, July 23, 2013 4:17 PM
To: Brandi Horton
Subject: Water Right Permit No. 67-8035

Brandi,

Two conditions of approval for Water Right Permit No. 67-8035, Robert & Sharlett Leonard, which is located on Missman Road, is for the right holder to install a lockable device and a measuring device.

Water is diverted from an unnamed stream by a section of 36" CMP Culvert Pipe. The water, which I was told dries up by mid-July, has a free-flowing discharge to an irrigation and wildlife storage pond. Water discharges through a rock/soil spillway and discharges to Grossen Creek to the west. Presently, there does not exist a diversion structure or flow control device. Therefore, there is no device which can be locked. Likewise, the flow is so small for the unnamed stream that I feel that installing a measuring device such as a weir would provide little benefit, and would likely restrict the natural flow of the unnamed stream. If a flow measurement needs to be determined, a simple water depth measurement and measure of velocity in the 36" CMP culvert pipe will provide the data in which to calculate the flow/discharge to the storage pond.

Due to the lack of diversion facilities and minimal flows for this permit, I would like at this time to waive the conditions of approval for the installation of a lockable and measuring device.

Thank you for your attention and assistance.

Rick Collingwood, P.E.
Water Resource Agent, Sr.
IDWR Western Region
(208) 334-2190



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region, 2735 Airport Way • Boise, Idaho 83705-5082

Phone: (208) 334-2190 • Fax: (208) 334-2348 • Web Site: www.idwr.idaho.gov

C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Interim Director

April 16, 2013

Robert & Sharlett Leonard
P.O. Box 160
Council, ID 83612

RE: Scheduling Field Exam for Water Right Permit No. 67-8035

We are planning to **conduct water right field examinations** in the vicinity of the above-referenced permit **during the week of April 29, 2013**. An examination is needed to verify your water use in order to issue a water right license.

Please be advised that you will need to operate your system under normal operating conditions during the examination. The permit authorizes the diversion of 0.16 cfs of surface water for irrigation of 8.0 acres and 1.0 AF of irrigation and wildlife storage.

In order to conduct your exam as efficiently as possible, we ask that you call this office to schedule a day and time convenient for you. **Please call me at 208-334-2190 by April 26, 2013, to conduct the exam during the week of April 29, 2013.** If there is a problem with scheduling or conducting the examination at this time, please let me know so we can reschedule or make other arrangements.

I appreciate your attention to this matter and I look forward to hearing from you.

Sincerely,

A handwritten signature in black ink that reads "Rick Collingwood". The signature is written in a cursive, flowing style.

Rick Collingwood, P.E.
Water Resource Agent, Sr.