

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 47-17100

Exam Date: 8/1/2013

1. Current Owner: E MC LEROY JR
1325 E 4252 N
BUHL ID 83316
(208)534-5830

And

LU ALICE MC LEROY
1325 E 4252 N
BUHL ID 83316
(208) 543-5830

2. Accompanied by: Junior McLeroy
Phone No: same as above
Address: same as above
Relationship to Permit Holder: permit holder

3. **SOURCE**

CLEAR CREEK
GROUND WATER

TRIBUTARY

MUD 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: 47-17370 (Tom Lyon)

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

CLEAR CREEK	NW1/4NE1/4SW1/4	Sec. 26,	Twp 09S,	Rge 14E, B.M.
TWIN FALLS County				
GROUND WATER	NW1/4NW1/4SW1/4	Sec. 26,	Twp 09S,	Rge 14E, B.M.
TWIN FALLS County				

Method of Determination: ArcMap aerial imagery

2.

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
09S	14E	26																	.7

Total Acres: 0.7

Method of Determination: ArcMap aerial imagery

Method of Determination: ArcMap aerial imagery

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>
D0023550		0.75			Well

*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>
Flowmeter	Sonic	Fuji				

2. Measurements: Performed a ten minute flowmeter test on the ditch pump running under normal operating conditions (approximately half of the system sprinklers running).

Measured the well using the bucket and stopwatch method.

E. FLOW CALCULATIONS

☒ Additional Computation Sheets Attached

Measured Method: The flowmeter test on the ditch pump yielded a flow of 45.1 gpm, or 0.1 cfs.

The bucket and stopwatch test on the well indicated a flow of 7 gpm, or 0.02 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 0.7 \text{ acres} \times 4.0 \text{ AF/acre} = 2.8 \text{ AF}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.06 \text{ cfs} \times 246 \times 1.9835 = 29.3 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 2.8 \text{ AF}$$

2. Volume Calculations for Other Uses: NA

G. NARRATIVE/REMARKS/COMMENTS

The field exam for this permit was conducted on August 1, 2013 with Junior McLeroy, the permit holder, present.

The surface water portion of the permit is diverted from Clear Creek into a ditch which is used and maintained by Tom Lyon to irrigate farm ground located immediately north of Mr. McLeroys property. The diversion structure is a rock check in the creek, with no weir or other measuring device. From the diversion on Clear Creek, the ditch runs 0.2 mile west where a 2 HP pump pressurizes the McLeroys underground sprinkler system. The irrigation system is split into two portions, each with 15-20 sprinklers, each run at a different time. This source serves the McLeroy property most of the season, except when Tom Lyon cuts and bales his hay and closes down the diversion to avoid flooding his field. During that time, Mr. McLeroy runs two movable sprinklers from his domestic well to irrigate his lawn.

Although the irrigated acreage appears to include the SWNW, in addition to the permitted NWSW of section 26, taxlot data and a known shift in the imagery support the permit POU.

Recommend licensing permit for 0.06 cfs and volume of 2.8 AF.

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

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	03/15 to 11/15	0.060 CFS	2.80 AF
<u>Totals:</u>		0.060 CFS	2.80 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

I. AUTHENTICATION

Field Examiner's Name

Date 8-1-2013

Reviewer

Date

10/6/13

State of Idaho
Department of Water Resources

Attachment To Water Right License

47-17100

This map depicts the IRRIGATION 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.

14E



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

0 0.035 0.07 0.14 Miles



47-17000 Delivery System Diagram



0 0.0275 0.055 0.11 Miles



LD01
No. 01
LOG NAME:MCELROY
START :08-01 10:12
END :08-01 10:22
INTERVAL:00:01:00

+4.491E+0 ft/s
+4.548E+1 gal/m
+TOTAL 0000000 gal
NORMAL

+4.501E+0 ft/s
+4.558E+1 gal/m
+TOTAL 0000044 gal
NORMAL

+4.486E+0 ft/s
+4.543E+1 gal/m
+TOTAL 0000090 gal
NORMAL

+4.467E+0 ft/s
+4.524E+1 gal/m
+TOTAL 0000135 gal
NORMAL

+4.476E+0 ft/s
+4.533E+1 gal/m
+TOTAL 0000180 gal
NORMAL

+4.442E+0 ft/s
+4.499E+1 gal/m
+TOTAL 0000226 gal
NORMAL

+4.462E+0 ft/s
+4.519E+1 gal/m
+TOTAL 0000271 gal
NORMAL

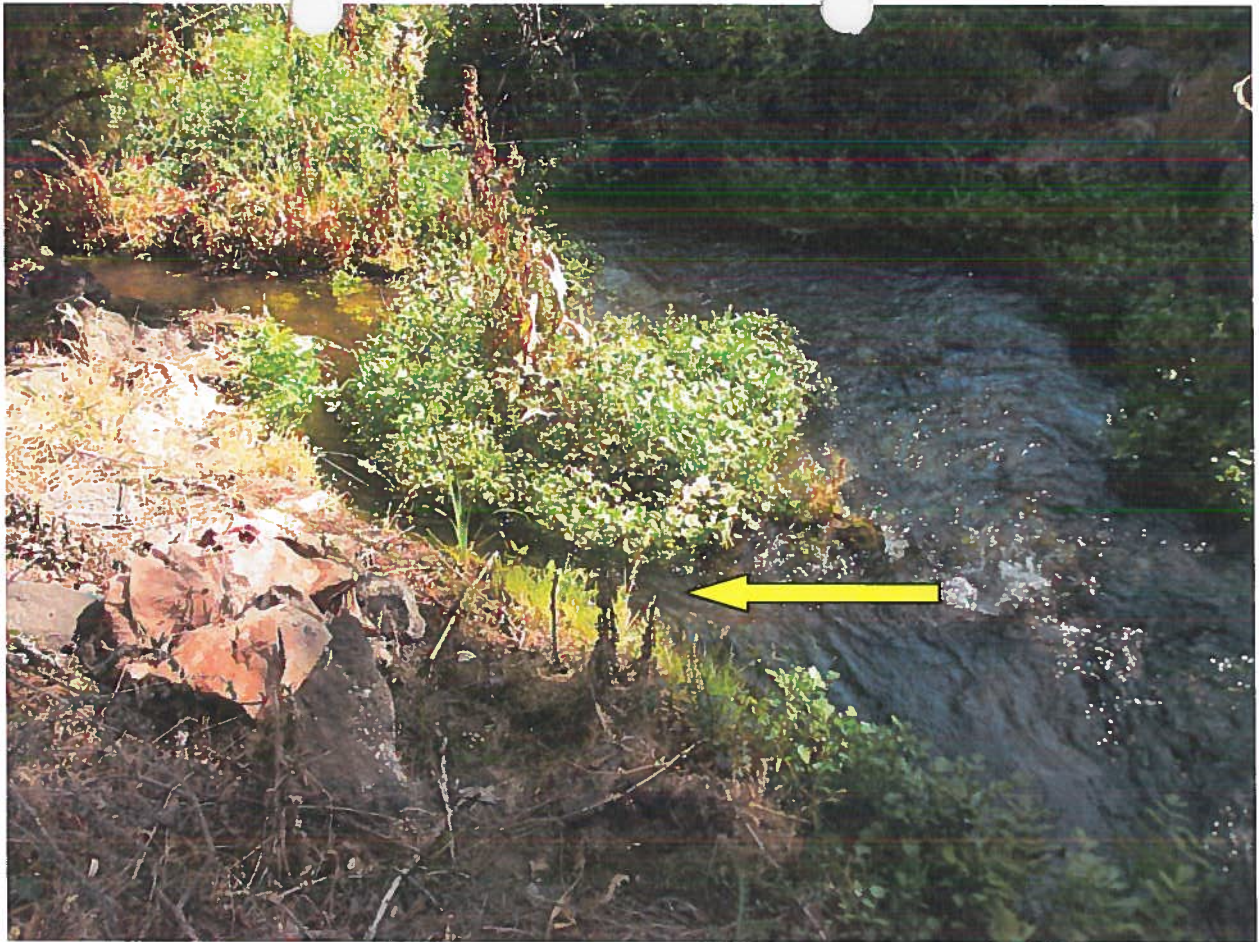
+4.470E+0 ft/s
+4.527E+1 gal/m
+TOTAL 0000316 gal
NORMAL

+4.441E+0 ft/s
+4.498E+1 gal/m
+TOTAL 0000361 gal
NORMAL

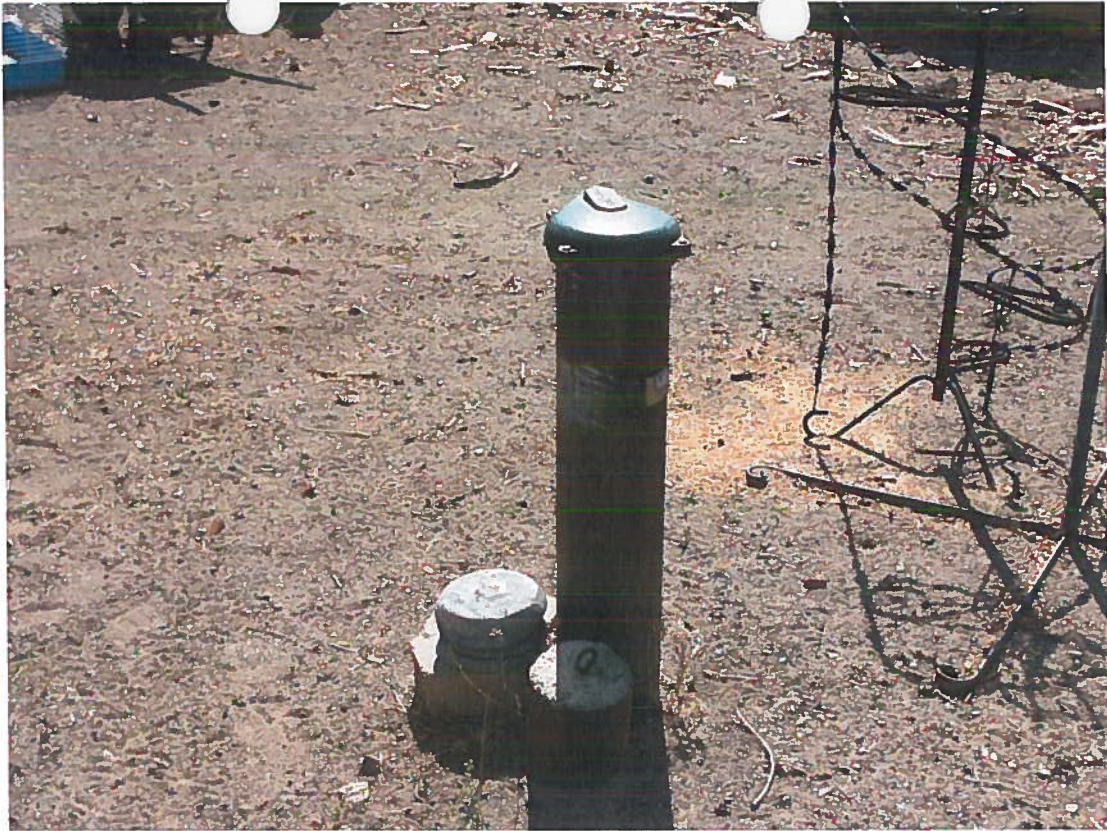
+4.459E+0 ft/s
+4.516E+1 gal/m
+TOTAL 0000406 gal
NORMAL

+4.424E+0 ft/s
+4.480E+1 gal/m
+TOTAL 0000451 gal

45.1 gal/min
0.1 cfs



Point of Diversion on Clear Creek – Arrow Points to Tom Lyon's Ditch



Well

Plumbing Inside Well house





Ditch Pump

View of Ditch Pump and Pipe Drawing Water from Ditch





Views of McLeroy Lawn and Landscaping





Lawn and Sprinklers

Movable Sprinkler



FORWARD WHITE COPY TO WATER RESOURCES