

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-17462

Exam Date: 08/06/2019

1. Current Owner:

DARREL (LYNN) HUMPHREYS 1252 N STATELINE POST FALLS ID 83854 AND/OR
CHERYL HUMPHREYS 1252 N STATELINE POST FALLS ID 83854

2. Accompanied by: Lynn Humphreys

Relationship to permit Holder: Applicant

3. **SOURCE:**

GROUND WATER

Method of Determination: Arcmap and DRG

B. OVERLAP REVIEW

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

Water Right No.	Source	Purpose of Use	Basis

Comments: _____

2. Other water rights with the same point-of-diversion:

NO Overlap

Water Right No.	Source	Purpose of Use	Basis

Comments: _____

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

GROUND WATER L2 (NW¼ NE¼), Sec. 1, Twp 50N, Rge 06W, B.M. KOOTENAI County

Method of Determination: Maps and GPS. POD located at -117° 01.970, 47° 42.780

PLACE OF USE: IRRIGATION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
50N	06W	1		8.8 L2	8.0		31.0 L3			28.0	3.1								78.9

Total Acres: 78.9

Method of Determination: Google Earth and Arcmap.

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.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
	FAIRBANKS MORSE	60	PT2343	FM	

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
GE FLOWMETER	PANEMETRIC		PT878	PCC1316134		4/2/2019

2. Measurements: Flow measured for 10 minutes
 Total Ending – 210262.4
 Total Beginning – 203435.1
 $210262.4 - 203435.1 = 6827.3 / 10 \text{ minutes} = 682.73 \text{ gpm or } 1.52 \text{ cfs}$

E. FLOW CALCULATIONS

Additional Computation Sheets Attached

Measured Method:

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 78.9 \text{ AC} \times 3.0 \text{ AF} = 236.7 \text{ AF}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 1.52 \text{ CFS} \times 246 \times 1.9835 = 741.7 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 236.7 \text{ AF}$$

2. Volume Calculations for Other Uses: N/A

G. NARRATIVE/REMARKS/COMMENTS

Field exam with applicant, Lynn Humphreys showed a well being used for irrigation purposes. The above ground pump had a tag showing that it was a 60hp pump and matched paperwork submitted at time of application. Water was diverted through buried pipeline to a movable pivot along with hand line where pivot would not reach. The hand lines were various in section length and head sizes. There was a section of 6 inch steel pipe inside the pump house that was acceptable to perform an ultrasonic flow test. The GE Panametric Flow Meter was used for the test and found a flow rate of 6,827.3 gallons over the course of the ten minute test which is equal to 682.73 gpm or 1.52 cfs. The applicant had applied for the irrigation of 83.0 acres which was reduced down to 78.9 acres during licensing due to a better defined outline of use.

The license will be issued with a diversion rate of 1.52 cfs and an annual volume of 236.7 acre-feet. An amendment of permit at time of licensing was required because the location of the point of diversion was not identified correctly. The applicant had submitted two maps with the original application that we were unable to properly discern the location of the POD. The applicant came into the office and identified the location so a proper map could be made. The location that was chosen was incorrect after GPS identified the proper location. An amendment was sent and returned by the applicant so the licensing process could continue.

Condition 046 will be removed from the license as it is no longer needed. All other conditions will remain on the license. No are no overlap concerns.

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

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	<u>Annual Volume</u>
IRRIGATION	03/15 to 11/15	1.52 CFS	236.7 AF
<u>Totals:</u>		1.52 CFS	236.7 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 ☒ None

I. AUTHENTICATION

Adam Frederick - Water Resource Agent, Senior

Field Examiner's Name Adam Frederick Date 8/22/19

Reviewer Douglas Jones P.E. Date 9/30/19

State of Idaho
Department of Water Resources
Attachment to Field Exam
95-17462

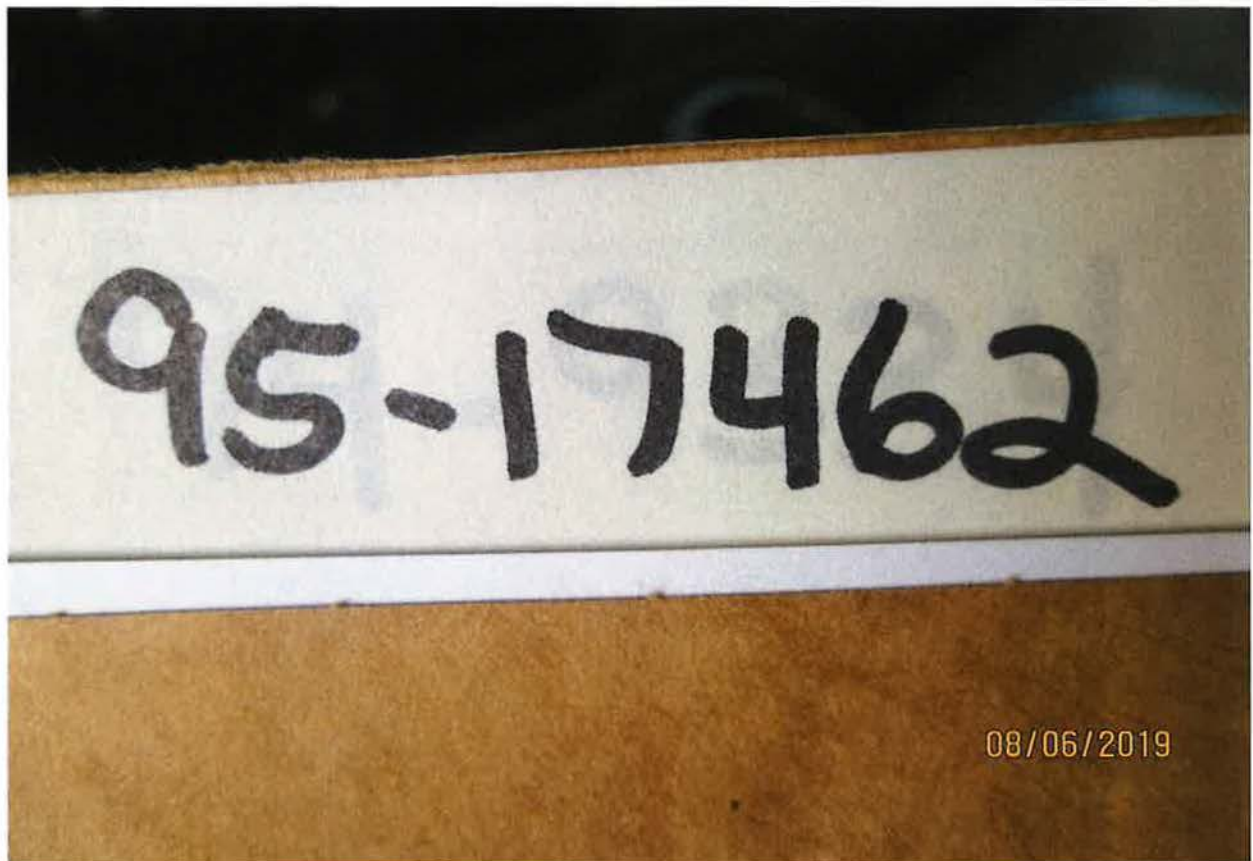
IRRIGATION / SYSTEM DIAGRAM



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

0 0.1 0.2 0.4 Miles





Well and pump.



Pump.



Pump tag showing 60HP pump.



Flow measurement performed using GE Panametric Meter which was equal to 682.7 gpm or 1.52 cfs.





Irrigation POU.





Irrigation POU.





Irrigation POU.





Irrigation POU.

