

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-10827
Exam Date: 8/4/2016

1. Current Owner:
JERRY REGA 5595 S CATAMARAN DR HARRISON ID 83833 (208)676-8383
2. Accompanied by: Applicant
3. **SOURCE:**
COEUR D ALENE LAKE
- TRIBUTARY:**
SPOKANE RIVER

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

COEUR D ALENE LAKE L2 (SE¼NE¼) Sec. 6, Twp 49N, Rge 03W, B.M. KOOTENAI County

Method of Determination: GPS and maps. POD location at 116° 46.438, 47° 37.263

2.

PLACE OF USE: FIRE PROTECTION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
49N	03W	6				X L 2													

Method of Determination: GPS and arc map.

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.

X Indicate weir size/pipe as applicable.X Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.X Aerial Photo Attached (required for irrigation of 10+ acres).X 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

*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

Measured Method: UNABLE TO PERFORM FLOW MEASUREMENT. THEORETICAL PUMPING EQUATION ESTIMATES FLOW AT 0.10 CFS. SEE ATTACHED SHEET.

_____ Additional Computation Sheets Attached

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

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

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

2. Volume Calculations for Other Uses:

G. NARRATIVE/REMARKS/COMMENTS

Field exam with Mr. Rega showed there was only fire protection use. Applicant said it was too expensive to put in domestic system even just for irrigation purposes. Applicant said he only put in fire protection system and that once a year the fire department comes out and tests it to make sure it works. Water is pumped from lake through 2 inch pvc pipe to pump where fire hose is attached. Theoretical pumping equation estimates a 1.5 hp pump can produce 44.2 gpm or 0.10 cfs.

Have conditions of permit approval been met? X Yes No

H. RECOMMENDATIONS

1. Recommended Amounts

BENEFICIAL USE
FIRE PROTECTION

PERIOD OF USE
01/01 to 12/31

DIVERSION RATE
0.10 CFS

Totals: 0.100 CFS

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 X None

I. AUTHENTICATION

Field Examiner's Name Adam Fendler Date 12-9-2016

Reviewer Morgan Case Date 12/9/2016

THEORETICAL PUMPING EQUATION FOR WATER RIGHT 95-10827. 1.5 HP PUMP RUNNING AT ASSUMED 40 PSI WITH 15 FEET OF LIFT FROM LAKE TO PUMP.

PUMP EQUATIONS WATER RIGHT No. 95- 10827						
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/H	1.5	107.517	0.8	15	40
Q = 0.098 cfs 44.2 gpm						

State of Idaho
Department of Water Resources
Water Right License
95-10827

FIRE PROTECTION

03W



0 0.02 0.04 0.08 Miles

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





Intake line in lake.



Pipe from lake to pump.



Water intake line on bottom to pump and fire protection hose in blue.



Fire hose.



Home with hose attached next to step. No domestic use, only fire protection.