

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 35-13919

Exam Date: 7/02/2010

1. Current Owner: CLEM R YANCEY
375 W 150 N
BLACKFOOT ID 83221
(208)785-4902

2. Accompanied by:

Phone No:

Address:

Relationship to Permit Holder:

3. SOURCE

TRIBUTARY

GROUND WATER

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:**

GROUND WATER

NE1/4SW1/4

Sec. 28, Twp 02S, Rge 35E, B.M.

BINGHAM County

Method of Determination:

GPS. Decimal Degrees

2.

PLACE OF USE:

DOMESTIC

Long: -112.36884
Lat: 43.218032

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
02S	35E	28									X								

1 Duplex 2 households

1 1/2 Acre Lawn, sprinkler irrigation system installed, grass growing

Address of Duplex 147N 365W
149W 365W

Method of Determination:

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</u> <u>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</u> <u>Size</u>
D0056829					

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

D. FLOW MEASUREMENTS

1.

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

2. Measurements:

• 02 cfs per Home. 2 homes

• 04 cfs for duplex

E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

Measured Method:

Theoretical

$$\frac{8.8 \times .70 \times 1 (\text{assumed HP})}{55^{\text{ft}} + (2.31 \times 50 (\text{assumed PSF}))} = \frac{6.16}{170.5} = \underline{.04} \text{ cfs}$$

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

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

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

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

2. Volume Calculations for Other Uses:

$$1 \text{ mm} = .0032808399 \text{ ft}$$

$$- \text{Inhouse} = 2 \text{ homes} \times 0.6 \text{ Af} = \underline{1.2 \text{ Af}}$$

$$- 1/2 \text{ Acre Irrigation for Duplex:}$$

Volume Based on crop irrigation Requirement for grass-Turf Lawns Irrigated at the Blackfoot Agrimet station:

$$\text{growing season} = 819 \text{ mm} \times .0032808399 \text{ ft} \times 0.5 \text{ acres} = \underline{1.3 \text{ Af}}$$

$$\begin{array}{r} 1.2 \text{ Af} \\ + 1.3 \text{ Af} \\ \hline 2.5 \text{ Af} \end{array}$$

G. NARRATIVE/REMARKS/COMMENTS

Submerged pump to one duplex with 1/2 irrigation of lawn.
Duplex consists of two homes. No other water rights serve Duplex. No other Rights use same Pod.
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>
DOMESTIC	01/01 to 12/31	0.040 CFS	2.5 Af
<u>Totals:</u>		0.040 CFS	2.5 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 Blake Sordan Date 07/02/2010

Reviewer _____ Date _____

ET_{Idaho} 2009: Evapotranspiration and Consumptive Irrigation Water Requirements for Idaho

Please send suggestions for improving this site to robison at kimberly dot uidaho dot edu Copyright 2010, University of Idaho.

Blackfoot (NWS --100915)

Statistics based on thirty

For a different land cover or crop click on the above link.

You can highlight this table and copy via the clipboard to a Microsoft Excel or OpenOffice spreadsheet to plot or otherwise work with this data.

Grass - Turf (lawns) - Irrigated														
Precipitation Deficit (Click here for a graph)														
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Growing Season ^a	Non Growing Season ^b
Mean	mm/day												mm	
Monthly ^c	0.06	0.00	0.15	0.99	3.77	5.51	6.15	5.46	3.60	1.40	0.24	0.23	819	-11
15-Day Moving Average ^d	0.05	0.03	0.13	0.90	3.70	5.52	6.18	5.50	3.61	1.43	0.26	0.20		
7-Day Moving Average ^e	0.05	0.01	0.13	0.90	3.71	5.49	6.19	5.50	3.61	1.40	0.26	0.22		
3-Day Moving Average ^f	0.05	0.00	0.14	0.95	3.75	5.51	6.16	5.47	3.63	1.39	0.25	0.22		
Standard Deviation	mm/day												mm	
Monthly	0.27	0.25	0.32	0.89	1.84	1.23	0.89	0.78	0.96	1.68	0.37	0.43	115	19
15-Day Moving Average	0.25	0.31	0.33	1.07	1.63	1.52	0.91	0.82	1.06	1.56	0.53	0.42		
7-Day Moving Average	0.39	0.46	0.53	1.35	2.10	1.93	1.17	1.09	1.48	1.94	0.81	0.62		
3-Day Moving Average	0.64	0.64	0.84	2.00	2.86	2.51	1.79	1.61	2.10	2.45	1.19	0.88		
20% Exceedance	mm/day												mm	
Monthly	0.03	0.18	0.23	1.76	4.77	6.57	6.68	5.92	4.44	2.29	0.00	0.00	911	7
15-Day Moving Average	0.20	0.30	0.49	2.32	5.92	7.28	7.01	6.43	5.05	3.66	0.28	0.10		
7-Day Moving Average	0.31	0.54	0.93	4.00	6.99	7.91	7.49	6.86	5.74	4.84	0.44	0.20		
3-Day Moving Average	0.45	0.78	1.29	5.51	7.94	9.30	8.64	7.92	6.92	5.44	0.83	0.31		