

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 35-13628

Exam Date: 07/02/2010

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
BINGHAM County

NE1/4SW1/4

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

Method of Determination: GPS: Decimal Degrees

Long: -112.369554

Lat: 43.217667

2.
PLACE OF USE: DOMESTIC

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

1 Duplex (2 homes)

1/3 acre lawn

Address of Duplex 144N 365W
142N 365W

New Meadows Subdivision Lot #3

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.
- X 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>
D0048566		3/4			

*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>

2. Measurements:

1 Duplex (2 homes) $\cdot 02$ cfs/home = $\cdot 04$ cfs for the Duplex

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method:

$$\text{Theoretical} = \frac{8.8 \times .70 \times .75}{56 \text{ ft} + (2.31 \times 50 (\text{assumed psi}))} = \frac{4.62}{171.5} = .03 \text{ cfs}$$

Theoretical is an estimate $\cdot 04$ cfs is a more sensible diversion rate for 2 homes and $1/3$ acre of Irrigation.

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 Duplex with 2 homes. Inhouse use per home = .6 cfs $\cdot 6 \text{ AF} \times 2 = 1.2 \text{ AF}$
 1/3 Acre irrigation for Duplex: volume based on Crop Irrigation Requirements
 for grass (Turf-Lawn irrigated) at Blackfoot Agrimet station:
 growing season = $819 \text{ mm} \times .0032808399 \text{ ft} \times .3 \text{ acres} = 0.8 \text{ AF}$

Inhouse = 1.2
 Irrigation = .8

2.0 AF

G. NARRATIVE/REMARKS/COMMENTS

No other water rights serve duplex. No other rights are diverted from POD. Duplex consists of 2 homes with a 1/3 acre lawn.

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	2.00 AF
<u>Totals:</u>		0.040 CFS	2.00 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 Jordan 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@kimberly.uidaho.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		



Legend

- POD
- POU
- Township/Range
- Sections
- QQ

0 0.015 0.03 0.06 Miles

1 inch = 0.05 miles

