

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 35-13635

Exam Date: 2/27/2014

1. Current Owner: BULLY DOG TECHNOLOGIES
C/O MIKE KLASSEN
2839 STATE HWY 39
AMERICAN FALLS ID 83211
(208) 226-2500

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

L2 SE1/4SE1/4NE1/4

Sec. 25, Twp 07S, Rge 30E, B.M.

POWER County

Method of Determination: Map, well drilling report and conversation with Ted Klassen (accounting manager at Bully Dog)

2.

PLACE OF USE: COMMERCIAL

Twp	Rge	Sec	NE				NW				SW				SE				Totals
07S	30E	25	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
						X													
						L 2													

PLACE OF USE: INDUSTRIAL

Twp	Rge	Sec	NE				NW				SW				SE				Totals
07S	30E	25	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
						X													
						L 2													

Method of Determination: Aerial Photography

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

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

D. FLOW MEASUREMENTS

1. In office field exam

E. FLOW CALCULATIONS

☒ Additional Computation Sheets Attached

Measured Method: Theoretical

Using a 3 hp pump with a pumping level of 84 feet. $Q=0.09$ cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

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

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

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

2. Volume Calculations for Other Uses:

Commercial and industrial water use is for washing equipment and culinary purposes at Bully Dog Technologies.

This right will be limited to 2500 gallons per day. The annual volume will be limited to 2.8 acre-feet (2500 gpd* 365 days/325,850 gallons).

G. NARRATIVE/REMARKS/COMMENTS

Submersed pump piped to one facility. Commercial and industrial use is for washing equipment and culinary purposes at the Bully Dog Technology facility. Inside use only. The point of diversion and extent of the water use at Bully Dog Technologies was verified through a phone conversation with Ted Klassen who is the accounting manager for Bully Dog Technologies. Rate of diversion was based on a theoretical calculation. This right will be limited to 2,500 gallons per day.

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>
COMMERCIAL	01/01 to 12/31	0.090 CFS	2.80 AF
INDUSTRIAL	01/01 to 12/31	0.090 CFS	2.80 AF
<u>Totals:</u>		0.090 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 2/27/2014

Reviewer _____ Date _____

THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 35-13635

Reviewer:

Date of Review:

P/D No.:	Senerio 1	Senerio 2	Senerio 3
PUMP HORSEPOWER	3	0	0
BOOSTER HORSEPOWER	0	0	0
PUMPING LEVEL	84	0	0
DISCHARGE PRESSURE	50	0	0
RATE OF FLOW (cfs)	0.09	#DIV/0!	#DIV/0!

The above calculates the formula =
$$Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$$

Assumptions: %70 efficiency.
No Friction

Examiners Notes:



0 105 210 420 Feet

1 inch = 176 feet

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



