

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-9521

Exam Date: 8/19/2008

1. Current Owner: RICK BURDETTE
And YOUNG BURDETTE
13611 NUNN RD
ATHOL ID 83801
(208)683-2300
2. Accompanied by: RICK BURDETTE
Phone No: SAME AS ABOVE
Address: SAME AS ABOVE
Relationship to Permit Holder: SELF

3. **SOURCE**

GREEN CREEK

TRIBUTARY

SAGE CREEK

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 SYSTEM1. **LOCATION OF POINT(S) OF DIVERSION:**

GREEN CREEK SW¼NE¼ Sec. 32, Twp 53N, Rge 02W, B.M. KOOTENAI County

Method of Determination: GPS

2.

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
53N 02W 32	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	3.0

Total Acres: 3

PLACE OF USE: IRRIGATION STORAGE

Twp Rge Sec	NE				NW				SW				SE				Totals
53N 02W 32	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	X

PLACE OF USE: IRRIGATION FROM STORAGE

Twp Rge Sec	NE				NW				SW				SE				Totals
53N 02W 32	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	3.0

Total Acres: 3

PLACE OF USE: AESTHETIC

Twp Rge Sec	NE				NW				SW				SE				Totals
53N 02W 32	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	X

PLACE OF USE: AESTHETIC STORAGE

Twp Rge Sec	NE				NW				SW				SE				Totals
53N 02W 32	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	X

DIVERSION TO STORAGE same as AESTHETIC STORAGE

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>
	Briggs Stratton	5.5		Pacer	SEB20L E 51C

*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:

see Attached pump curve

E. FLOW CALCULATIONS

Measured Method:

____ Additional Computation Sheets Attached

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 3 \times 3 = 9$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = .09 \times 246 \times 1.9835 = 43.9$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 9 \text{ AF}$$

2. Volume Calculations for Other Uses:

Pond size

$$.33 \times 8$$

$$2.7$$

Limited to 1.4 by Permit

Aesthetic

$$.2 \times 365 \times 1.9835$$

$$144.8 \text{ AF}$$

G. NARRATIVE/REMARKS/COMMENTS

THIS SYSTEM USES WATER FROM GREEN CREEK FOR STORAGE, AESTHETIC AND IRRIGATION. THE WATER IS PUMPED OUT OF GREEN CREEK BY A PACER PUMP POWERED BY A 5.5 HP BRIGS AND STRATTON MOTOR. THE PIPE FROM THE PUMP TO THE POND HAS VARIOUS VALVES FOR IRRIGATION UP TO THE POND. THE POND HAS A CONSTANT FLOW TO IT FOR AESTHETIC PURPOSES. THERE IS ALSO A PUMP FOR PULLING WATER OUT OF THE POND FOR IRRIGATION FROM STORAGE. THE POND HAS A SURFACE AREA OF 0.33 ACRES AND AN AVERAGE DEPTH OF 8 FT.

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>
IRRIGATION	03/15 to 11/15	0.090 CFS	9.00 AF
IRRIGATION STORAGE	01/01 to 12/31		1.40 AF
IRRIGATION FROM STORAGE	03/15 to 11/15		1.40 AF
AESTHETIC	01/01 to 12/31	0.200 CFS	144.80 AF
AESTHETIC STORAGE	01/01 to 12/31		1.40 AF
DIVERSION TO STORAGE	01/01 to 12/31	0.200 CFS	
<u>Totals:</u>		0.200 CFS	144.80 AF

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

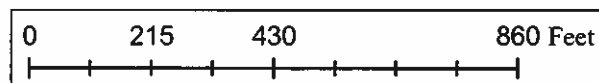
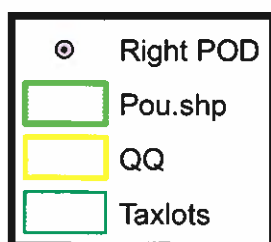
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

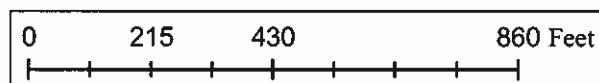
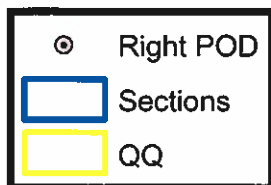
Field Examiner's Name [Signature] Date 9-3-08

Reviewer [Signature] Date 9/12/08

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PACER**ECONO-AG SERIES**BULLETIN
PAP-5000G
DEC. 2006**SELF-PRIMING CENTRIFUGAL PUMPS FOR AGRICULTURE**

A top line pump . . .



. . . at a bottom line price!
shown with 5.5 HP INTEK Engine

The Econo-Ag Pump is the original thermoplastic self-priming centrifugal pump for agriculture with the highest flow of any comparable plastic pump on the market.

- Housing, volute and impeller: glass-reinforced polyester.
- Rubber parts: EPDM
- Shaft seal: stainless steel with carbon and ceramic faces, EPDM fitted.
- Internal fasteners: stainless steel
- External fasteners: plated steel
- Maximum working pressure: to 50 psi
- Maximum flow: to 195 GPM
- Shipping weight:
40 lbs. for 1½" or 2", 4.0 HP engine driven pump
49 lbs. for 2", 5.5 HP engine driven pump
- Consult Factory for optional 'PROTEK' Engine Protection System

PACER PUMPS fitted with all EPDM rubber parts can be used for:

Atrazine	Honcho
Bicep	Lannate
Bladex	Lasso
Bronco	Modown
Bullet	N-Serve 24
Liquid Nitrogen Solutions	Pathway
Phosphoric Acid Solutions	Ranger
Dual	Roundup
Extrazine	Sevin 4 Oil
Fallowmaster	

NOTE:

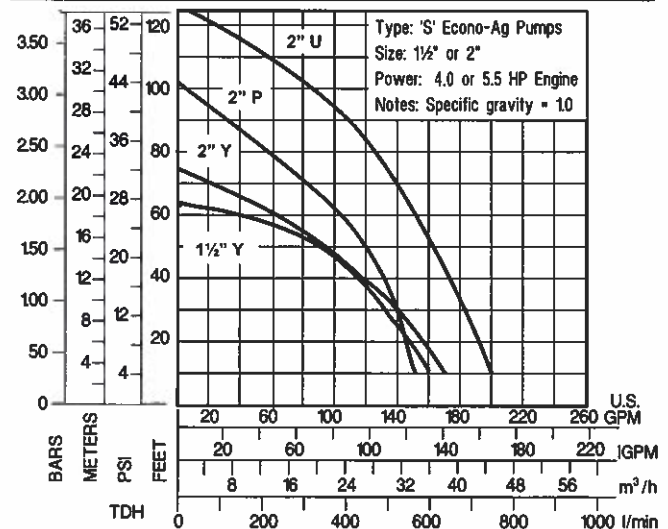
Some agricultural chemicals and certain carriers require a pump fitted with all Viton® rubber parts. These chemicals include:

Banvel	Pathfinder	* Consult Factory for
Dimethoate	Sutan	use with chemicals
Eptam	Treflan	not listed
Lorsban		

To order an all Viton fitted pump, change the sixth digit of the model number listed below from L to V. Consult factory for Viton fitted pricing. Never use gas engine driven or other non-explosion proof powered pumps for pumping flammable liquids such as gasoline. AN EXPLOSION AND SERIOUS INJURY MAY RESULT IF THIS WARNING IS IGNORED. For safe operation, read and follow all safety precautions in Operator's Manual. Consult Factory for specific liquid handling recommendations.

MODEL NUMBERS AND FLOW RATES

MODEL NUMBER	PORT SIZE/CURVE	HP	FLOW @ 10' TDH
SEB1½YL E3C	1½"/Y	4.0	160 GPM
SEB2PL E3C	2"/P	4.0	150 GPM
SEB2YL E3C	2"/Y	4.0	170 GPM
SEB2UL E5IC	2"/U	5.5	195 GPM





IRRIGATION FROM
STORAGE PUMP.JPG



IRRIGATION PLACE OF
USE 1.JPG



IRRIGATION PLACE OF
USE 2.JPG



IRRIGATION PLACE OF
USE 3.JPG



IRRIGATION PLACE OF
USE 4.JPG



POINT OF DIVERSION.JPG



PSI OF SYSTEM.JPG



PUMP INFORMATION
1.JPG



PUMP INFORMATION
2.JPG



PUMP.JPG



STORAGE 1.JPG



STORAGE 2.JPG



STORAGE 3.JPG

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