

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 23-7151

Exam Date: 8/10/2007

- 1 Current Owner: TROY HICKS
PO BOX 4
SWAN VALLEY ID 83449
(208)483-2070
- TARA HICKS
PO BOX 4
SWAN VALLEY ID 83449
(208)483-2070
- 2 Accompanied by: Owner Troy Hicks
Phone No: Same as Owner
Address: Same as Owner
Relationship to Permit Holder: self

3 SOURCE**TRIBUTARY**

GROUND WATER

B. OVERLAP REVIEW

- 1 Other water rights with the same place of use: see attached
- 2 Other water rights with the same point of diversion:

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

GROUND WATER

NE1/4NW1/4

Sec 7, Twp 01N Rge 44E B.M.

BONNEVILLE County

Method of Determination: GPS Garmin

2.

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
01N 44E 7					31.0	39.0	37.0	34.0									141.0

Total Acres: 141

STOCKWATER same as IRRIGATION

Method of Determination: utilization of shape generated during the adjudication

- 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 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>
705237	GE	30	40008788	GE	5kE286D17T6001

*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>
Flowmeter	Sonic	Fuji				3/2007

- 2 Measurements: 4588.3 gal in 10 min or 458.83 gpm or 1.02 cfs, 65 PSI. 0.102 in steel 6" diameter pipe
 Theoretical 1.18 cfs, stated he could easily get 1.13 cfs with different nozzles

FIG 15 sensor used

E. FLOW CALCULATIONS

Measured Method: Theoretical

☒ Additional Computation Sheets Attached

F. VOLUME CALCULATIONS

1 Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 65 \times 3.5 = 227.5 \text{ afa}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.67 \times 200 \times 1.98 = 265.8 \text{ afa}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 227.5 \text{ afa}$$

2 Volume Calculations for Other Uses: 100 head range cattle for 1.4 cfs

G. NARRATIVE/REMARKS/COMMENTS

60 pair of range cattle permitted 100 head which drink from small pits through out the property
 1 pump to single pivot, with total of 4588.3 gal in ten minutes. Utilized totalizer data recorded in the field, unable to retrieve logged data from flowmeter. This right is used in combination with 23-2065A and 23-2065B from this well.

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	04/01 to 11/01	0.670 CFS	227.50 AF
STOCKWATER	01/01 to 12/31	0.030 CFS	1.40 AF
<u>Totals:</u>		0.670 CFS	228.90 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 Nate Arave Date 8/10/2007

Reviewer Nate Arave Date 8/13/2007

THEORETICAL PUMP FLOW CALCULATIONS

Formula:

$$Q_{cfs} = [(Hp)(8.814)(Eff)] \div [Lift + (psi \times 2.308)]$$

Hp = Horsepower = 30
Eff = Efficiency = 70 (Usually 70%)

Lift: (Static Level + Assumed Draw down)

Static Water Level = _____ ft.

Assumed Draw down = + _____ ft.

Lift = _____

OR

Measured Dynamic Water Level = 6 ft.

psi = Operating Pressure = 65 psi

$$Q_{cfs} = \left[\frac{30}{Hp} \times 8.814 \times \frac{0.70}{Eff} \right] \div \left[\frac{6}{Lift} + \left(\frac{65}{psi} \times 2.308 \right) \right]$$

$$Q_{cfs} = \left[\frac{185}{} \right] \div \left[\frac{156}{} \right]$$

$$Q_{cfs} = \frac{1.18}{} \text{ cfs}$$

PERMIT NO. 23-7151

Comment Report

23-7151

1. narave 8/7/2007 POD

Comment: Updated shape

2. narave 8/7/2007 POD

Comment: Updated PLS

3. narave 8/7/2007 POD

Comment: Updated PLS

4. narave 8/7/2007 POU

Comment: Updated Shape

5. narave 8/7/2007 POU

Comment: Updated Shape

6. narave 8/13/2007 Field Report Narrative

Comment: 60 pair of range cattle permitted 100 head which drink from small pits through out the property

1 pump to single pivot, with total of 4588.3 gal in ten minutes. Utilized totalizer data recorded in the field, unable to retrieve logged data from flow meter. This right is used in combination with 23-2065A and 23-2065B from this well.

7. narave 8/13/2007 POD

Comment: Updated shape

8. narave 8/13/2007 place of use overlap

Comment: The overlapping water rights are:

23-10119

23-50D

23-50E

23-104

23-2065A

23-2065B

9. ANDREGG 9/23/1992 Proof of Beneficial Use Rcvd

Comment: Proof of Beneficial Use Rcvd

