

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 36-8543

Exam Date: 06/24/2019

1. Current Owner:
DOUBLE V LLC C/O RAY VANDER VEGT
1587 E 3100 S WENDELL ID 83355

2. Accompanied by: In-house field exam
Phone No: (208) 536-536-2240
Address: 76 E 400 S, Jerome ID 83338

3. **SOURCE:**
GROUND WATER

Method of Determination: per application for permit; WMIS data and on-site visit

B. OVERLAP REVIEW

1. Other water rights with the same place of use: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
36-10509	Ground Water	Stockwater	Decreed
36-10511	Ground Water	Stockwater	Decreed

2. Other water rights with the same point-of-diversion: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
36-10509	Ground Water	Stockwater	Decreed
36-10511	Ground Water	Stockwater	Decreed

C. DIVERSION AND DELIVERY SYSTEM1. **LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER SE¼ SE¼, Sec. 6, Twp 09S, Rge 17E, B.M. JEROME County
GROUND WATER SW¼ SE¼ SE¼, Sec. 6, Twp 09S, Rge 17E, B.M. JEROME County
GROUND WATER SW¼ SE¼ SE¼, Sec. 6, Twp 09S, Rge 17E, B.M. JEROME County

Method of Determination: On-site visit and GPS coordinates.

PLACE OF USE: STOCKWATER

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
09S	17E	6															X	X	

Place of Use: COMMERCIAL SAME AS STOCKWATER

Method of Determination: Utilizing satellite imagery in ArcMap and Google Earth and on-site inspection.

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.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
A0011807		5			
A0011806					
A0011805					

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
N/A						

2. Measurements: No measurement required per IDAPA 37.03.02 Beneficial Use Examination Rules as the permitted flow rate of 0.08 falls below the 0.24 cfs or greater flow rate amount requiring measurement.

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method: Theoretical Yield:

$$Q = \frac{8.8 \times (Hp) \times (Eff)}{H}$$

H

Where Hp =

Eff = Efficiency = 70% assumed

H = total head = pumping level + (2.31 x system pressure)

H = 191' + (60 psi x 2.31) = 329.6

$$Q = \frac{8.8 \times 5.0 \times .70}{329.6} = 0.09 \text{ cfs}$$

329.6

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation: N/A

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

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

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

2. Volume Calculations for Other Uses: Stockwater/Commercial

The highest volume reported in the WMIS database over the last three years for all three wells combined was

126.01 afa in 2018 and the licensing volume will be based on the volume reported that year. A flow rate of 0.08 cfs can

produce a maximum of **57.9 af** in a year and that will be the recommended volume.

G. NARRATIVE/REMARKS/COMMENTS

Field exam initially done in-house. Three years of volume data with new flow meters is available in the WMIS database and the permitted flow rate of 0.08 cfs falls below the flow rates (above 0.24 cfs) requiring measurement per IDAPA 37.03.02 Beneficial Use Examination Rules. On 6/24/2019, I visited the site to take pictures for this report.

The application for permit was filed on 6/19/1990 and stated the well was "to provide additional water for existing dairy operation." The application indicated there were 350 dairy cattle and another 350 range cattle in 1990. The permit lapsed, Proof of Beneficial Use was filed 10/27/1993. The permit was reinstated and the priority date was advanced to 6/15/1990.

On 7/10/2019, Corey Skinner and I met with the dairy's owner, Ray Vander Vegt, to discuss this permit and how the dairy water diversion system operates. As a result of that discussion, we are viewing all three dairy wells as connected in a single diversion system. The license has been amended to add the other two dairy wells and to add the SWSE1/4 of Sec. 6, Twp 09S, Rng 17E, to the place of use as there are two corrals that extend from the permitted POU in the SESE1/4 into the SWSE1/4. Mr. Vander Vegt also indicated the dairy currently has 1,000 dairy cows and 200 replacement heifers.

The license amendment was processed with a volume of 48.4 af. During review of the volumes in the WMIS database, the Watermaster for Water District 130 indicated the data contained possible errors. He then researched the issue and updated the volumes for the past three years in the WMIS database. As a result, the volume has increased and based on the volumes reported in the WMIS records (see attached), I am recommending an increased volume of 57.9 af for this license.

Recommend licensing 0.08 cfs diversion rate and a volume of 57.9 af.

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS

1. Recommended Amounts

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	
STOCKWATER	1/01 to 12/31	0.08 CFS	57.9 AF
COMMERCIAL	1/01 to 12/31	0.08 CFS	57.9 AF

Totals: 0.08 CFS 57.9 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 ☒ None

I. AUTHENTICATION

William Mills - Water Resource Agent, Senior

Field Examiner's Name William Mills Date 7-25-2019

Reviewer _____ Date _____



Figure 1: Well head & Pump House



Figure 2: Well tag



Figure 3: Inside pump house



Figure 4: Cows



Figure 5: More cows



Figure 6: Milking barn and cows

System Diagram



Idaho Department of Water Resources

WMIS

Water Management Information System

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400138

-2 wells with 1 meter

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[Point Of Diversion](#) [PCC](#) [Flow Meter](#) [Time Clock](#) [Alternate](#) [Contacts](#) [Data Summary](#) [Other](#) [Logout](#)**Data Summary***You are viewing 400138; A0011805*

Report Year	Alternate	FM	PCC	Time Clock
2019				
2018		88.71		
2017		65.20		
2016		77.79		
2015		75.78		
2014		83.68		
2013		52.06		
2012		65.09		
2011		60.27		
2010		71.40		
2009		68.35		
2008		100.01		
2007		105.36		
2006		103.11		
2005		14.86		
2004				
2003				
2002				
2001				

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WMIS

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400140

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[Point Of Diversion](#) [PCC](#) [Flow Meter](#) [Time Clock](#) [Alternate](#) [Contacts](#) [Data Summary](#) [Other](#) [Logout](#)**Data Summary***You are viewing 400140; A0011807*

Report Year	Alternate	FM	PCC	Time Clock
2018		37.30		
2017		22.88		
2016		20.79		
2015		23.04		
2014		24.13		
2013		21.47		
2012		28.91		
2011		167.44		
2010		113.94		
2009		8.31		
2008		25.11		
2007		24.17		
2006		22.83		
2005		4.25		
2004				
2003				
2002				
2001				

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