

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 36-8481

Exam Date: 10/21/2011

1. Current Owner: CALVIN DE KRUYF
303 W 300 S
JEROME ID 83338
(208)324-7360
- And/Or
- MARK A DE KRUYF
177 W 400 S
JEROME ID 83338
(208)324-7365
2. Accompanied by: Mark De Kruf
Phone No: 208-280-7365
Address: 177 W 400S
Jerome, ID 83338
Relationship to Permit Holder: Permit holder/operator

3. **SOURCE**
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: 36-8530

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

GROUND WATER	SE1/4SE1/4	Sec. 33,	Twp 08S,	Rge 16E, B.M.
JEROME County				
GROUNDWATER	L1 NE1/4NE1/4	Sec. 4,	Twp 09S,	Rge 16E, B.M.
JEROME County				
GROUNDWATER	L1 NE1/4NE1/4	Sec. 4,	Twp 09S,	Rge 16E, B.M.
JEROME County				

Method of Determination: Updated from the spatial database of GPS points (A0003632, A0003633 & A0003634) collected by IDWR staff on 6/1/2004

2.

PLACE OF USE: STOCKWATER

Twp	Rge	Sec	NE				NW				SW				SE				
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
08S	16E	33																X	

Method of Determination: 1992 and 2011 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

4.

Well or Diversion

ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial Discharge Size
<u>A0003632</u>	<u>submersible</u>	<u>7.5</u>	<u> </u>	<u> </u>	<u>2 inch</u>
<u>A0003633</u>	<u>submersible</u>	<u>5</u>	<u> </u>	<u> </u>	<u>1.5 inch</u>
<u>A0003634</u>	<u>submersible</u>	<u>15</u>	<u> </u>	<u> </u>	<u>3 inch</u>

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

D. FLOW MEASUREMENTS

1.

Measurement Equipment

Type	Make	Model No.	Serial No.	Size	Calib. Date
<u>Portaflow</u>	<u>sonic</u>	<u>FUJI</u>	<u> </u>	<u>2400332</u>	<u>11/14/01</u>
<u>Portaflow</u>	<u>sonic</u>	<u>FUJI</u>	<u> </u>	<u>2400332</u>	<u>11/14/01</u>
<u>Portaflow</u>	<u>sonic</u>	<u>FUJI</u>	<u> </u>	<u>2400335</u>	<u>3/19/03</u>

2. **Measurements:** Recorded Wmis data for these wells verify two ten minute average measurements (A0003633 & A0003634) collected on 11/14/01 by Corbin Knowles and one by Cindy Yenter (A0003632) on 3/19/03. (See attached Water Measuring Device Certification forms.)

A0003632	131.1 gpm or 0.29 cfs
A0003633	47 gpm or 0.11 cfs
A0003634	62.3 gpm or 0.14 cfs
Total	0.54 cfs

E. FLOW CALCULATIONS☐ Additional Computation Sheets Attached

Measured Method: Measured rate of 0.54 exceeds the limits (0.34) of the permit. Recommend the permitted amount of 0.34 cfs for stockwater

F. VOLUME CALCULATIONS1. Volume Calculations for Irrigation: **N/A**

2. Volume Calculations for Other Uses:

Permit Capacity Volume:0.34 X 1.9835 X 365 = **246.2 AF**

Stockwater use:

$$1500 \times 12 \text{ gpd} \times 365 = 20.2 \text{ AF}$$

325,850

Calculations for stock consumption are based on the permitted 1500 heifers/dry cows. **Recommended volume for license is 20.2 AF**

G. NARRATIVE/REMARKS/COMMENTS

Permit 36-8481 in the name of Calvin and/or Mark De Kruf is for stockwater uses associated with a heifer facility located in Jerome County.

Two companion permits (36-8481 and 36-8530) for two adjacent facilities were filed jointly. 36-8481 is for a heifer facility and 36-8530 for a dairy operation. Permit 36-8481 has one original point of diversion. Via phone conversation on 10/21/2011 owner/operator Mark De Kruf of the heifer facility and the dairy operation verified that there are three wells at these facilities that are an interconnected system. An amendment was filed to add the two dairy wells to the license to reflect the actual water usage of the entire system.

Wmis records verify a combined flow of 0.54 cfs from all three wells but exceeds the limits of the permit (0.34 cfs). **Recommended flow rate for stockwater is 0.34 cfs.**

Volume for stock consumption is based on 1500 beef cattle at 12 gpd. **Recommended volume of 20.2 AF for stockwater use.**

It is also recommended that a combined condition will limit 36-8481 and 36-8530 to a total diversion rate of 0.54 cfs and a total diversion volume of 104.3 AF for both the heifer and the dairy facility.

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>
STOCKWATER	01/01 to 12/31	0.340 CFS	20.20 AF
<u>Totals:</u>		0.340 CFS	20.20 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

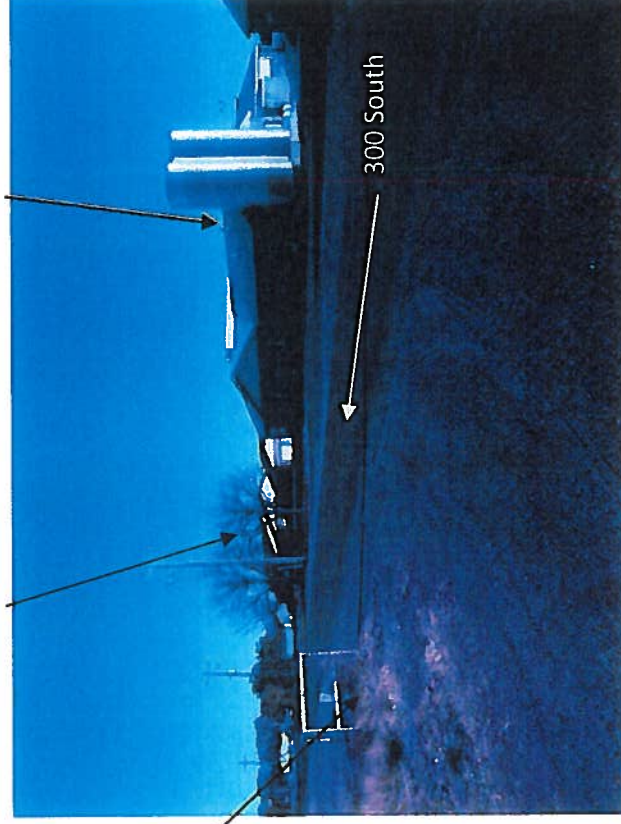
Field Examiner's Name Sara Beeder Date 11/21/11

Reviewer [Signature] Date 11/21/11

South of Heifer Facility is the Dairy Operation

Single home residence and yard

Milk Barn



Heifer Facility Back up well - A0003634

Mc Crometer Meter in pit next to well head



Dairy Operation

Abandoned Well

A0003632

