

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-11750

Exam Date:
4/9/2012

1. Current Owner: J MARTIN NORRIS
16608 CHICKEN DINNER RD
CALDWELL ID 83607
(208)459-4756
2. Accompanied by: **DOUGLAS NORRIS**
Phone No: (208)454-3235
Address: **16641 LONKEY LN, CALDWELL ID 83607**
Relationship to Permit Holder: **SON**

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: **63-11875**

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

GROUND WATER SW1/4NW1/4 Sec. 12, Twp 03N, Rge 04W, B.M.
CANYON County

Method of Determination: **GPS E 2276275, N 1382684 [43.6115, -116.7724]****2. PLACE OF USE: IRRIGATION**

TwpRgeSec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N04W12							31.0	39.0				34.0					104.0

Total Acres: 104

Method of Determination:

3. ☒ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable. **ON AERIAL**

☒ 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 – **REPRESENTED ON AERIAL**

4.

<u>Well or Diversion</u>				<u>Pump Serial No. or Discharge</u>	
<u>ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Size</u>
<u>WELL</u>	<u>US MOTOR</u>	<u>40</u>	<u>1383404</u>	<u>WELLLINE</u>	<u>– SN UNKNOWN</u>

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

D. FLOW MEASUREMENTS – **NONE TAKEN**

1.

<u>Measurement</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
<u>Equipment</u>						

2. Measurements:

E. FLOW CALCULATIONS _____ Additional Computation Sheets Attached

1 – IDWR standard of 0.02 cfs per acre 104 acres x .02 = 2.08 cfs

2 – THEORETICAL CALCULATION – 10 psi for open discharge, 40 hp, 49 feet bgs for dynamic pumping level per well

$$\frac{8.8 \times 40 \times .7}{49 + [10 \times 2.31]} = \frac{246.4}{72.1} = 3.42 \text{ cfs}$$

Measured Method: **none taken**

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 104 \times 4.5 = 468 \text{ afa}$$

I.R.

$$V = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 1.5 \times 199 \times 1.9835 = 592.1 \text{ afa}$$

D.R.

$$V = \text{Smaller of } \begin{matrix} V \\ \text{I.R.} \end{matrix} \text{ and } \begin{matrix} V \\ \text{D.R.} \end{matrix} = 468 \text{ afa}$$

2. Volume Calculations for Other Uses: **NOT APPLICABLE****G. NARRATIVE/REMARKS/COMMENTS**

The permit was issued for the supplemental irrigation of 116 acres and 1.5 cfs, from an M well or moratorium well. The proof of beneficial was timely filed and the correct fee paid. The well is also the point of diversion for permit 63-11875, in the same applicants name, J Martin Norris, which is also being licensed at the present. Douglas Norris, the applicants son, accompanied me on the field exam.

The ArcMap taxlot layer indicates that the property is owned by Clinton Norris, not J Martin Norris. Douglas Norris confirmed this and said he thought his dad applied for the rights in his name because it was a drought year and it was essential to get irrigation water as soon as possible. Clinton Norris is the applicants brother.

I sent the applicant a letter with an assignment of permit if he wanted to assign the permit to Clinton, and explained the difference between the assignment and change in water right ownership processes. I set a due date for the assignment and stated that if IDWR did not receive the assignment by the due date, the license would be issued in J Martin Norris name and a change of ownership could be submitted after the license was issued. The permittee did not respond and no assignment was submitted.

The 16-inch diameter well has been used to supplement Wilder Irrigation surface water shares about 5 times since the well has been drilled. Though 116 acres was permitted, 104 acres were found to be irrigated and 104 acres will be the number recommended for licensing. I took pictures during the exam but was not able to download them so the photo included in this report is a picture obtained from Google. It is a picture of the well I saw during the field exam. Also, the 2011 aerial in the file is representative of the irrigation system and place of use.

There are no gauges on the well which discharges into the ditch system used to convey the surface water to the place of use. The diversion system is a system of buried 8-inch PVC pipe and concrete ditches that divert the water to the various fields. There were faceplates on the well that indicated the motor was 40 hp. There was a faceplate for the WelLine pump, but no other information other than the WelLine name. Douglas Norris said the applicant uses power records to calculate water use.

The season of use applied for was 3/15 to 9/15 which is not the standard season of use for Basin 63. Usually, an applicant will apply for a different beginning date because the standard has changed. In this instance, we will change the beginning date to 3/1 but will not change the end date. The season of use recommended for licensing is 3/1 – 9/15. This season is 199 days long and was used in the volume Vd calculation.

I calculated a theoretical flow calculation using 40 hp, 10 psi [low because it is an open discharge system], and the 49 feet below ground level pumping level for a result of 3.42 cfs. This is sufficient for both the quantity to be recommended for licensing which is the permitted diversion rate of 1.5 cfs which will be recommended for licensing and the quantity to be recommended for licensing for Clinton Norris 63-11875, which is the permitted diversion rate of 0.7 cfs for the 75 acres.

The annual volume recommended for licensing is 468 afa which is the lesser of the Vd and Vr calculations.

The permit included condition 067 which is no longer standard, and condition 066 which should be changed to 01M. These changes have been approved by Steve Lester. With these changes, the conditions of the permit have been met.

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

Both 63-11750 and 63-11875 should include conditions F06.

Modify 066 and 067 to 01M.

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	03/1 to 09/15	1.500 CFS	468.00 AF
	<u>Totals:</u>	1.500 CFS	468.00 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 Wing Lin Date 6-11-12

Reviewer _____ Date _____



63-11750 - POD, POU, delivery system. Place of use in blue. 2011 aerial photo.

3N 4w 5.12



Address **Chicken Dinner Road**

Address is approximate

63-11750 3N 4W Sec 12 SWNW
Clinton Norris



This is the well seen during the field exam for
63-11750 and 63-11875