

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-11875

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: **63-11750**

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 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	
03N04W 1												32.0					32.0
03N04W11														18.0			18.0
03N04W12										25.0							25.0

Total Acres: 75

Method of Determination:

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

 Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.

 X Aerial Photo Attached (required for irrigation of 10+ acres).

 X Photo of Diversion and System Attached – **2011 aerial is representative of POD & system**

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>
WELL	US MOTOR	40	1383404	WELLLINE – SN UNKNOWN

*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>
_____	_____	_____	_____	_____	_____	_____

2. Measurements: **NONE TAKEN**

E. FLOW CALCULATIONS _____ Additional Computation Sheets Attached

1 – IDWR standard of 0.02 cfs per acre 75 acres x .02 = 1.5 cfs

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

$$\frac{8.8 \times 40 \times .7}{49 + [10 \times 2.31]} = \frac{246.4}{72.1} = 3.42 \text{ cfs for both 63-11750 and 63-11875}$$

Measured Method: **NONE TAKEN**

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 75 \text{ acres} \times 4.5 \text{ af/ac} = 337.5$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.7 \times 260 \times 1.9835 = 361$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 337.5$$

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

The permit was issued for the supplemental irrigation of 83.2 acres and 0.7 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 63-11750, in the same applicants name, J Martin Norris. Douglas Norris, the applicants son, accompanied me on the field exam. Both permits are being licensed at the present.

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 83.2 acres was permitted, 75 acres were found to be irrigated and 75 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. The water flows via gravity 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 standard season of use at the time of application was 3/15 – 11/15. The current standard is 3/1 – 1/15. The current standard is recommended for licensing.

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 0.7 cfs and the quantity to be recommended for licensing for Clinton Norris 63-11750, which is the permitted diversion rate of 1.5 cfs for 104 acres found.

The annual volume recommended for licensing is 337.5 afa which is the lesser of the V_d and V_r 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	03/01 to 11/15	0.700 CFS	337.5
	<u>Totals:</u>	0.700 CFS	337.5

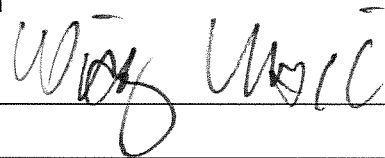
2. Recommended Amendments

___ Change P.D. as reflected above ___ Add P.D. as reflected above X None

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

I. AUTHENTICATION

Field Examiner's Name

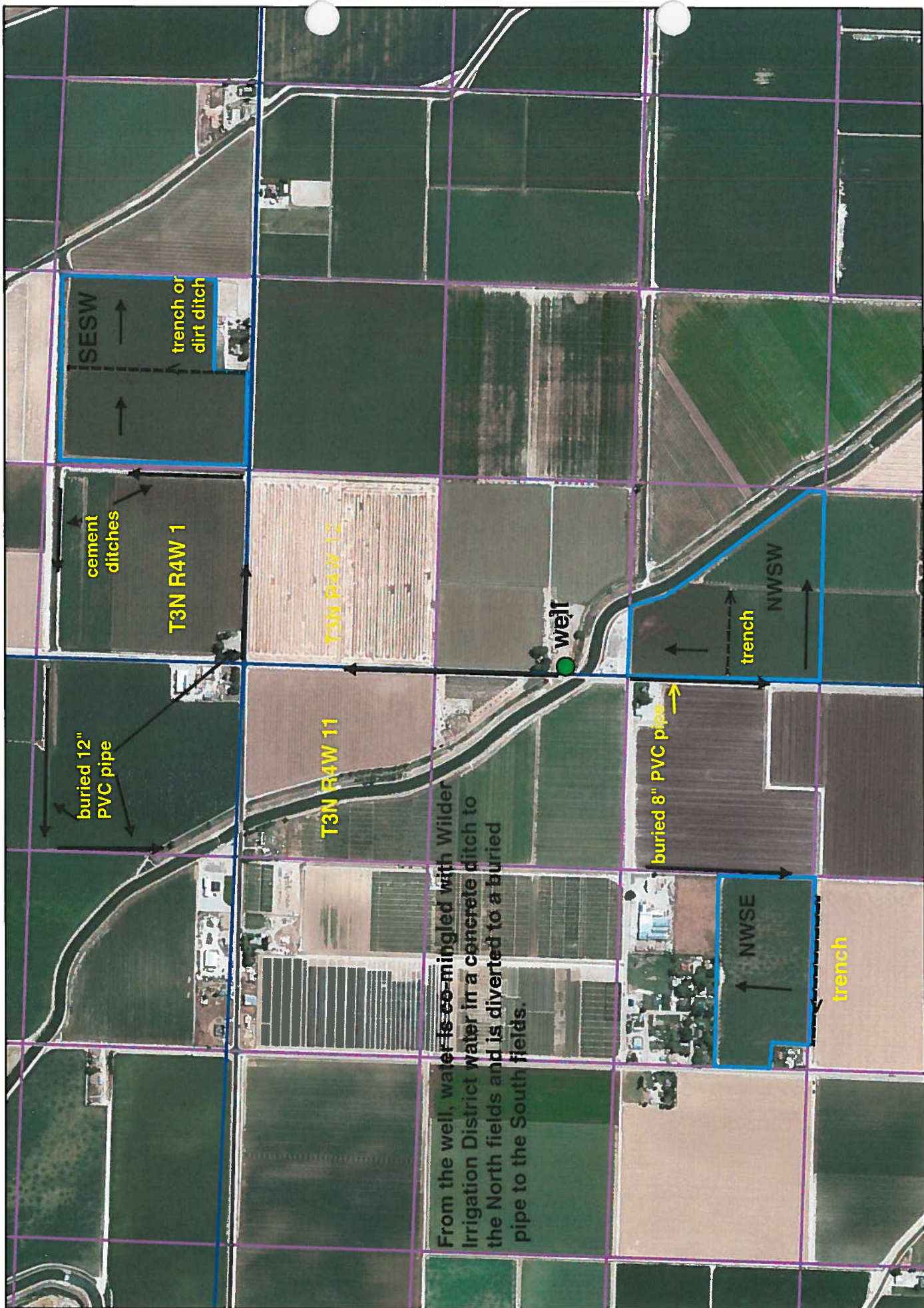


Date

6-7-12

Reviewer

Date



From the well, water is co-mingled with Wilder Irrigation District water in a concrete ditch to the North fields and is diverted to a buried pipe to the South fields.

63-11875 --- POU, POD, delivery system. 2011 aerial photo. POU shown in blue. 2011 aerial photo.



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