

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-11911

Exam Date: 5/2/2012

1. Current Owner: HAROLD H LESTER
12753 MIDWAY RD
NAMPA ID 83686
(208)466-1023
2. Accompanied by: **MARILEE SHOEMAKER AND RON LESTER**
Phone No: **MARILEE: 208.466.6905**
RON: 208.941.9971
Address: **MARILEE: 13136 MIDWAY RD, NAMPA, ID 83636**
RON: UNKNOWN
Relationship to Permit Holder: **daughter and 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: **63-2796 , 63-2832**

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

GROUND WATER NE1/4NE1/4 Sec. 36, Twp 03N, Rge 03W, B.M.
CANYON County

Method of Determination: **GPS [E 2287150, N 1376350]****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	
03N	03W	25															37.0	22.0	
59.0																			

Total Acres: 59

Method of Determination:

3. ☒ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable. **SHOWN 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. **INCLUDED ON AERIAL**
- ☒ Aerial Photo Attached (required for irrigation of 10+ acres).
- ☒ Photo of Diversion and System Attached

4.

<u>Well or Diversion</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>
<u>ID No.*</u>					
<u>___WELL___</u>	<u>UNKNOWN</u>	<u>20</u>	<u>UNKNOWN</u>	<u>UNKNOWN</u>	<u>UNKNOWN</u>

*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>
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2. Measurements: **NO MEASUREMENTS TAKEN****E. FLOW CALCULATIONS**

Attached

____ Additional Computation Sheets

Measured Method:

THEORETICAL CALCULATION USING 20 hp, 150 feet pumping level from well log, 10 psi for an open discharge system

$$\frac{8.8 \times 20 \times 0.70}{10 \times 2.31 + 150} = \frac{123.2}{173.1} = 0.71 \text{ cfs}$$

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 59 \times 4.5 = 265.5 = 266 \text{ afa}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.71 \times 260 \times 1.9835 = 366.2$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 266 \text{ afa}$$

2. Volume Calculations for Other Uses: **not applicable**

G. NARRATIVE/REMARKS/COMMENTS

The permit was issued for a supplemental ground water right, from what IDWR refers to as an M well, for 1.3 cfs for irrigation of 65 acres. Proof was due 5/1/09, was timely filed and the correct fee paid. I was accompanied on the exam by Marilee Shoemaker, the permittees daughter, and Ron Lester, the permittees son.

The supplemental water has only been used 2-3 times since the permit was approved and was not used last year. The well was not operating the day of the exam. During the field exam, I found that the fields that were supplementally irrigated totaled 59 acres, not 65, and I recommend that 59 acres be licensed.

The 10-inch well discharges water through an 8-inch steel, then PVC pipe into an open concrete ditch that is also used to carry the Wilder Irrigation District shares appurtenant to the proposed place of use. From there, it travels to the fields via gravity in concrete ditches.

The well is also the point of diversion for water rights 63-2832 and 63-2796. Oddly, the backfile for 63-2832 describes it as a supplemental right also for 40 acres in the SWSE Section 25, which would be an overlap of this permit. However, the license was issued for 0.04 cfs for 40 acres irrigation and domestic in 1950. The license was not claimed in the SRBA so really is no longer considered a valid irrigation right, but can still be used for domestic. 63-11911 permit backfile states that the permittee did not intend to claim it and only intends to use the well for domestic so nothing was overlooked. No combined use limits are necessary.

Right 63-2796 is a valid primary ground water right for a different place of use. The 63-11911 permit file states that the permittee intended to drill another well for 63-2796 and 63-11911, however, there is only this well used for irrigation.

I calculated a theoretical flow using the 20 hp pump information proved by the permittee, 10 psi because the well discharges into an open ditch and a dynamic pumping level of 150 feet per the well log. The result was 0.71 cfs, ABOUT 55% of the permitted quantity. The theoretical calculation yields a generous result so the 0.71 cfs will be the quantity I recommend to be licensed.

Vr and Vd were calculated and the lesser volume of 266 afa will be recommended for licensing.

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	03/01 to 11/15	0.710 CFS	266.00 AF
	<u>Totals:</u>	0.710 CFS	266.00 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 Wai Li Date 5-17-12

Reviewer _____ Date _____



63-11911 Field exam photos – May 2, 2012



Well to 8" steel pipe. Pressure gauge seen. Well not operating day of exam.



Steel pipe to PVC pipe to ditch which also delivers the Wilder Irrigation District water.