

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 85-15527

Exam Date: 9/5/2012

1. Current Owner: G MONTY EWING
138 LUKES GULCH RD
GRANGEVILLE ID 83530
(208)983-3737
2. Accompanied by: Monty

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: NONE

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

GROUND WATER SE1/4NE1/4 Sec. 17, Twp 30N, Rge 03E, B.M. IDAHO County

Method of Determination: GPS and Field Visit

2.

PLACE OF USE: DOMESTIC AND 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	
30N	03E	17				2.0													2.0

Total Acres: 2.0

Method of Determination: Aerial Imagery and Field Visit

3. ☐ NA Delivery System Diagram Attached.
☒ 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.

<u>Well or Diversion</u> <u>ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge</u> <u>Size</u>
D0010415		1.5			

D. FLOW MEASUREMENTS

1.

Measurement

<u>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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Measured the pressure at a hydrant at the well using a pressure gage.

2. Measurements: The well is pumping against 60 psi per my measurement at the hydrant.

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method: No physical measurement is required for a domestic use with 2 acres of irrigation. Given the horsepower equation, the permitted rate of 0.03 cfs has been confirmed.

Horsepower: 1.5

psi: 60

total lift: 220' according to the well driller's report

 $8.8 \times 1.5 \times 0.7 / 220 + (2.31 \times 60) = 9.24 / 358.6$ or 0.03 cfs**F. VOLUME CALCULATIONS**

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 2 \times 3 = 6 \text{ afa}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.03 \times 1.9835 \times 214 = 12.7 \text{ afa}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 6 \text{ afa}$$

2. Volume Calculations for Other Uses: Standard domestic use of 0.6 afa.

G. NARRATIVE/REMARKS/COMMENTS

They irrigate roughly 2 acres of lawn with hose and rainbird sprinklers. The pressure reading at the domestic well was 60 psi. Even though Monty didn't irrigate his lawn in 2012 he had in past years.

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>
DOMESTIC	01/01 to 12/31	0.030 CFS	0.6
IRRIGATION	04/01 to 10/31	0.030 CFS	6.0
<u>Totals:</u>		0.030 CFS	6.6 AFA

2. Recommended Amendments____ Change P.D. as reflected above ____ Add P.D. as reflected above ☒ None

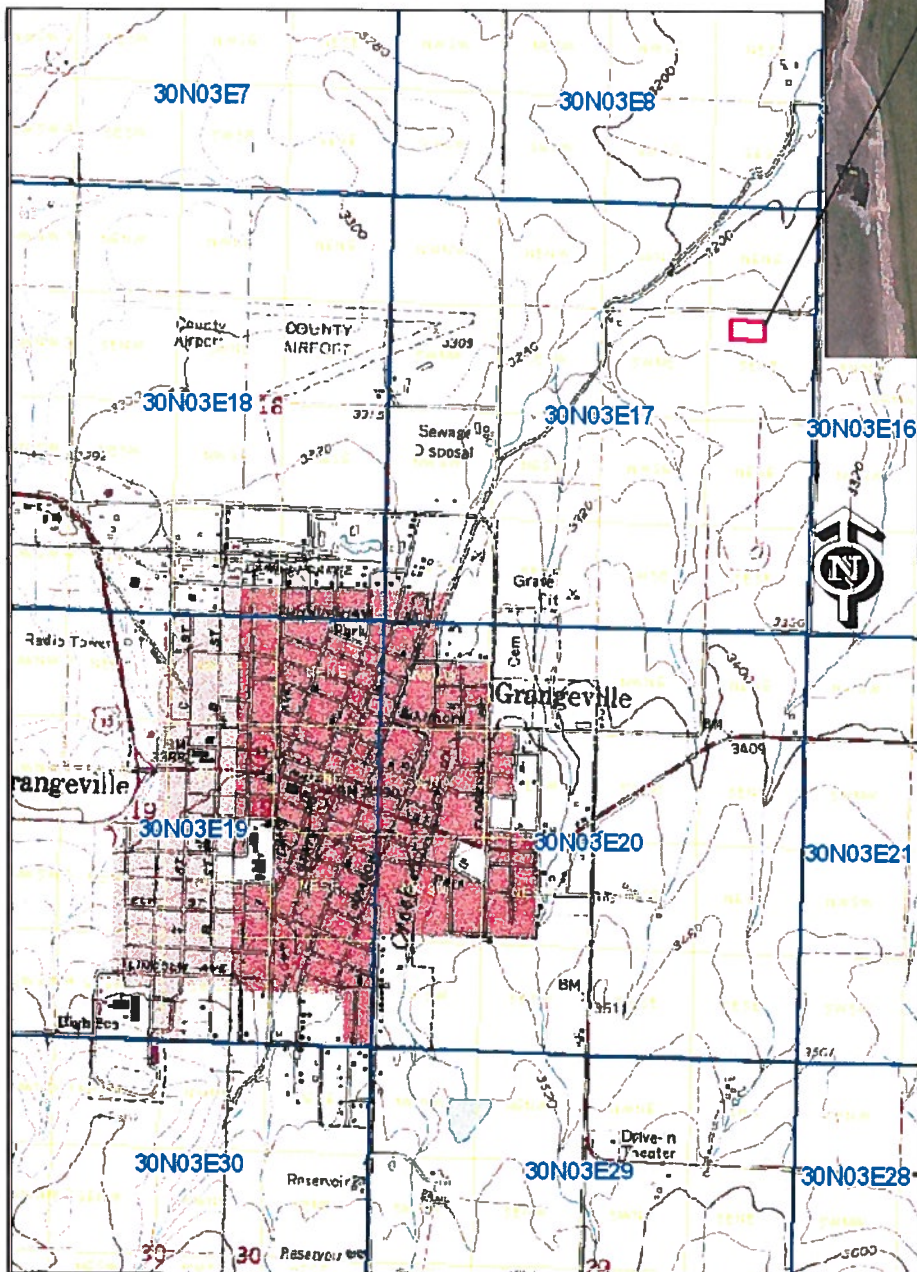
____ Change P.U. as reflected above ____ Add P.U. as reflected above ____ Other

I. AUTHENTICATIONField Examiner's Name Cherie Palmer Date 9/19/2012

Reviewer _____ Date _____

Attachment #1 - Well Driller's Report

Map/Aerial Imagery of POU/PD





Pressure reading
at hydrant located
next to the well



well
D0010415



← Hydrant
where the
pressure reading
was taken



POU - home
and lawn

← Method of
irrigation

Attachment # 1

Form 2007
11/97

Form 2807 OCT 2 1999

Corrected Rpt.
IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Office Use Only
Inspected by RED
Twp 30N Rge 3E Sec 17
1/4 SE 1/4 NE 1/4
Lat: : : Long: : :
☒ Air ☐ Flowing Artesian

IDWR/North

1. WELL TAG NO. D CC104115

DRILLING PERMIT NO. 82-99 N-19

Other IDWR No. 742942

2. OWNER:

Name Monte + Virginia Ewing

Address RT 2 Box 598

City Chillicothe State IA Zip 52001

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

N
 W E
 S
 Twp. 30 North ☒ or South ☐
 Rge. 07 East ☒ or West ☐
 Sec. 16 New 1/4 New 1/4 1/4
 Gov't Lot _____ 10 acres _____ 10 acres _____ 160 acres
 County IDAHO
 Lat: : : Long: : :

Address of Well Site Across From

City Gardnerville

Lt. _____ Blk. _____ Sub. Name _____

4. USE:

☒ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other

5. TYPE OF WORK check all that apply (Replacement etc.)

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD
☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	
Bentallite	0	18	111375	124 Pounds

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 30'

Was drive shoe seal tested? ☒ Y ☐ N How? AIR

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
8"	+2	30'	405	Steel	☒	☐	☒	☐
6"	-20	220'		PVC	☐	☒	☐	☐
					☐	☐	☐	☐

11. WELL TESTS:

☐ Pump ☐ Bailer

Yield gal./min.	Drawdown	Pumping Level	Time
10		220	1413

Water Temp. 51° Bottom hole temp _____

Water Quality test or comments: _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment) Water

[illegible]