

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 85-15348

Exam Date: 9/5/2012

1. Current Owner: BUDDY HOOD
PO BOX 392
COTTONWOOD ID 83522
(208)962-3883

2. Accompanied by: Buddy

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

GROUND WATER SE1/4SE1/4 Sec. 31, Twp 32N, Rge 01E, B.M. IDAHO County

Method of Determination: GPS PT (46.066297, -116.373778)

2.

PLACE OF USE: DOMESTIC AND STOCKWATER

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
32N	01E	31																	X

Method of Determination: Field visit and aerial imagery

3. ☐ NA Delivery System Diagram Attached
- ☒ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required).
- ☒ Aerial Photo Attached (required for irrigation of 10+ acres).
- ☒ Photo of Diversion and System Attached

4.

<u>Well or Diversion</u> ID No.*	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge</u> Size
D0010275 and D0061013 (two tags)			1.5		

D. FLOW MEASUREMENTS

1.

<u>Measurement</u> Equipment	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
No measurement taken, the system capacity will be determined using theoreticals						

2. Measurements: None

E. FLOW CALCULATIONS

Measured Method:

The system was upgraded in 2012 because the well was becoming very unproductive. This license will be based on the system that was in place during the development period.

Hp= 1.5

Depth to water = 145' based on well driller's report

Pressure = estimated 30 psi for standard, small use

$0.7 \times 1.5 \times 8.8 / 145 + (2.31 \times 30) = 9.24/214.3 = 0.04 \text{ cfs}$

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 0.5 \times 3 \text{ AFA} = 1.5 \text{ AFA}$

$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.02 \times 246 \times 1.9835 = 9.8 \text{ AF}$

$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 1.5 \text{ AFA}$

2. Volume Calculations for Other Uses: Domestic use for a family of 6 using water for in-house purposes in a standard matter = 0.6 AF.

G. NARRATIVE/REMARKS/COMMENTS

The home is heated using a recirculation system where water is diverted one time and enters into a closed loop system. The heating system appears to be part of a standard domestic use. Special considerations on the license will not apply for the heating system.

Note that the PLSS in current ArcMap is shifted and is showing that the POU and PD are within the SWSE of Section 31. The DRG correctly depicts that POU and PD within the SESE of Section 31 so no amendment is necessary.

No stockwater use was developed and the field surrounding Buddy's home is dry farmed, the only irrigation that got developed is the 1/2 acre lawn.

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	03/15 to 11/15	0.020 CFS	1.5 AF
DOMESTIC	01/01 to 12/31	0.020 CFS	0.6 AF
<u>Totals:</u>		0.040 CFS	2.1 AF

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

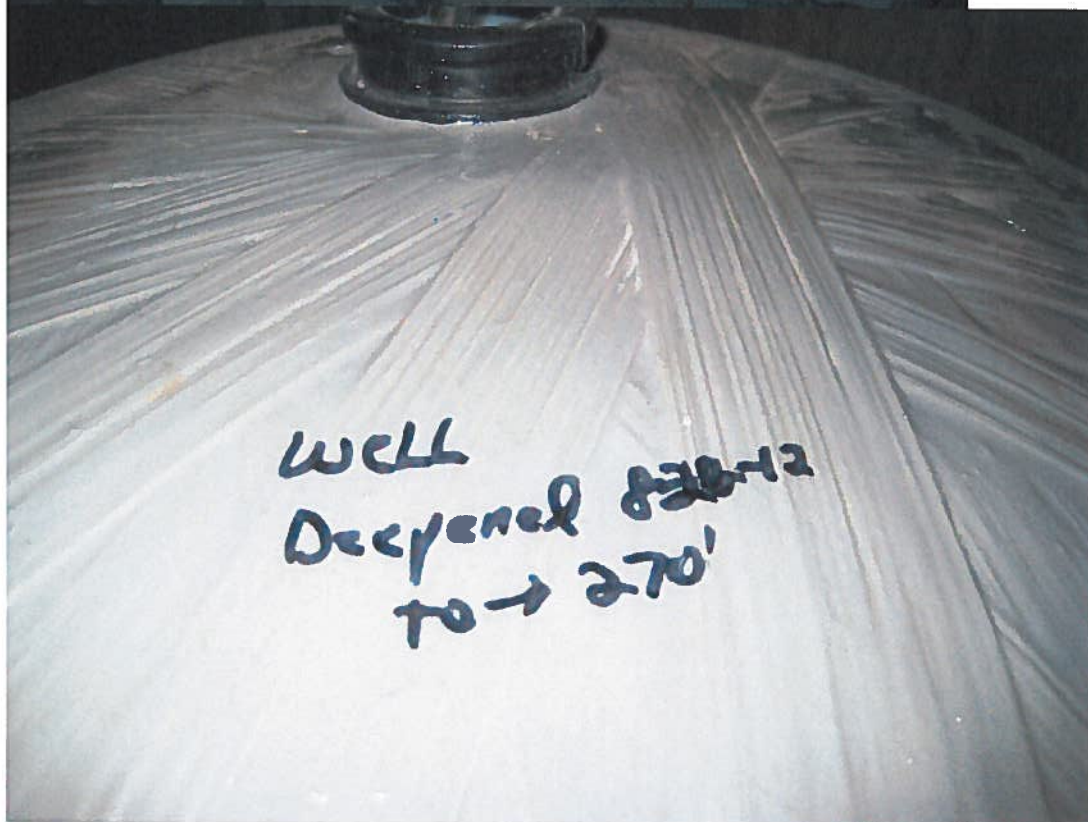
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

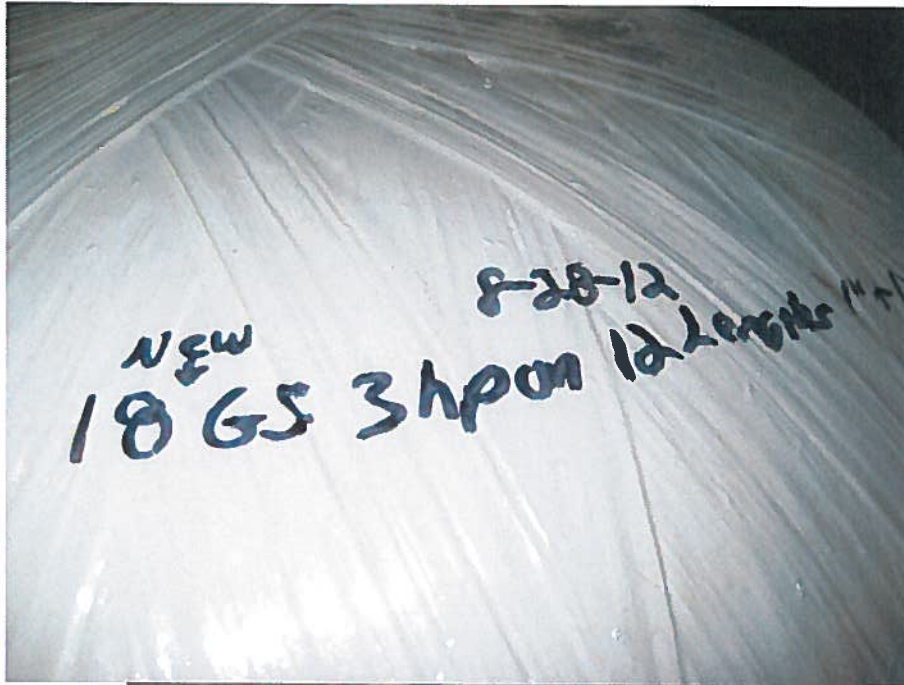
I. AUTHENTICATION

Field Examiner's Name Cherie Palmer Date 2/26/13

Reviewer _____ Date _____







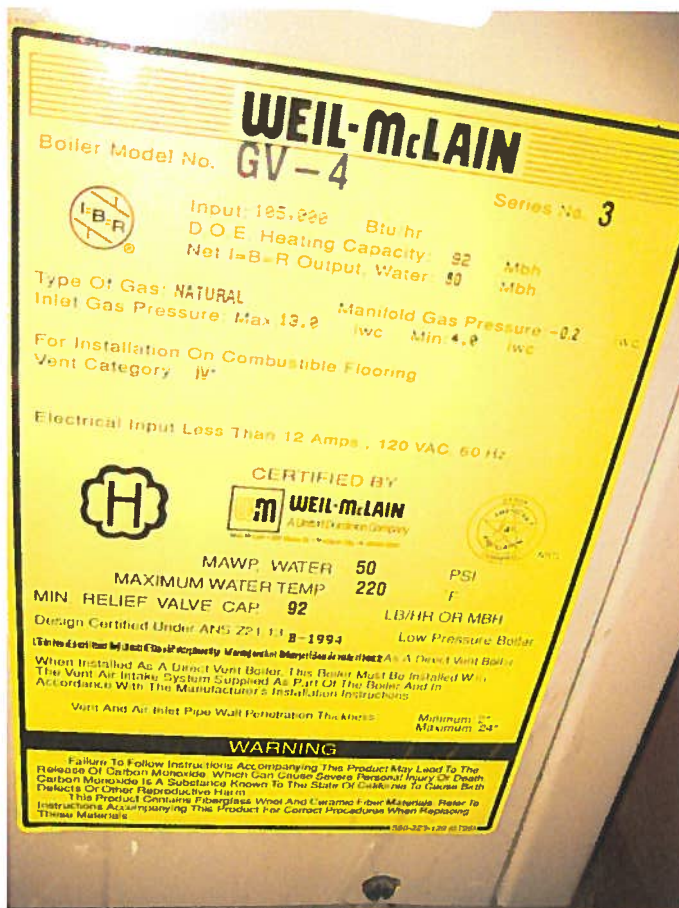


line coming in from well

line going out to irrigation system



Sprinkler system controls



Heating System Specs



Heating dispersion system from boiler

Form 238-7
11/97

Form 238-7
11/97 JUL 20 1999

076316

Office Use Only
Inspected by _____
Twp _____ Rge _____ Sec _____
_____ 1/4 _____ 1/4 _____ 1/4
Lat: : : Long: : :

1. WELL TAG NO. **IDWR/North** D 0010275

DRILLING PERMIT NO. 85-99-N-59 .
Other IDWR No. _____

2. OWNER:

Name Buddy & Winona Hood
Address PO Box 392
City Cottonwood State ID Zip 83522

3. LOCATION OF WELL by legal description:

Sketch map location: must agree with written location.

N
 W E S
 Twp. 32 North ☒ or South ☐
 Rge. 1 East ☒ or West ☐
 Sec. 31 SE 1/4 SE 1/4 1/4
 Gov't Lot _____
 County Idaho 10 acres 10 acres 160 acres
 Lal: _____ Long: _____
 Address of Well Site Butte Drive Rd.
 City Cottonwood

(Give at least name of road + Distance to Road or Landmark)

Li. _____ Blok _____ 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	Bags or Pounds	
Bentonite	0	18	4	Dry

Was drive shoe used? ☐ Y ☒ N Shoe Depth(s) _____
Was drive shoe seal tested? ☐ Y ☐ N How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6	-2	20	250	Steel	☒	☐	☒	☐
4	145	5	40	PVC	☐	☒	☐	☐
					☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

Perforations	Method	Slotted
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
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12	12	12
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Screens	Screen-Type
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100	100

From	To	Slot Size	Number	Diameter	Material	Casing	Linear
175	145	3/16	40	4	PVC	☐	☒
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

77 ft. below ground Artesian pressure _____ lb.
Depth flow encountered 155 ft. Describe access port or
control devices:

11. WELL TESTS:

☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Pumping Level	Time
30			

Water Temp. 54. Bottom hole temp.

Water Quality test or comments: Good

POSTED

Depth first Water Encounter ¹ 55

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

[illegible]

13. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name JRU Well Drilling Firm No. 539

Firm Official Jim R. Whiting Date 7-19-99
and

Driller or Operator _____ Date _____

(Sign once if Farm Official & Operator)

32N 1E 31

FORWARD WHITE COPY TO WATER RESOURCES