

MEMORANDUM

Date: April 02, 2013
To: Water Right File 63-32985 Lease, and Water Right File 63-18786
From: shemenway
Re: Water Supply Bank Rental Agreement Review

Ownership:

Brian McCauley (the WSB rental applicant) resides at the physical address: 2242 N Edgewood Rd, Eagle, ID 83616 (208)939-4535 bmccauley@gmail.com. Brian is in the process of buying the property from his dad James McCauley. Attached to the WSB rental application is a signed and dated agreement between Brian McCauley and James McCauley.

The Tax Lot information shows James and Arlene McCauley Trust 2611 W State St., Eagle, ID 83616 as the current owners of the property. Water right 63-18786 covers the domestic internal/external use at 2242 N Edgewood Rd., Eagle, ID. This same POD will be used to irrigate the property located to the north listed in the WSB rental application.

CFS:

Per Brian, on the WSB application, the irrigation system to the north property consists of a 2 inch buried PVC pipe from the well, to sprinklers. Approximately 5 - 7 heads per zone. Approximately 20 - 25 gpm per head flow at approximately 60 psi. The POD for this irrigation system is the same POD/groundwater source as for water right 63-18786. Since there was no physical measurement taken from this existing system, the following calculations were used to ensure there is an adequate diversion rate to supply the domestic internal/external use for water right 63-18786 plus have enough water for irrigation of the 1.1 acre included in the water supply bank rental application. (The water is being rented from WSB Lease 63-32985)

Same POD:

Theoretical for irrigation: $(8.8 \times 1 \text{ Hp} \times 0.7 \text{ eff}) / [47 \text{ ft lift} + (60 \text{ psi} \times 2.31)] = 0.03 \text{ cfs}$
Theoretical for Domestic: $(8.8 \times 1 \text{ Hp} \times 0.7 \text{ eff}) = [47 \text{ ft lift} + (30 \text{ domestic psi} \times 2.31)] = 0.05 \text{ cfs}$
Average: 0.04 cfs

Pipe conversion for 2 inch buried PVC from well to acres irrigated = 0.11 cfs

Well Drillers Report = $90 \text{ gpm} \times 0.00223 = 0.20 \text{ cfs}$, but the time that the test was run is only for 1 (hr possibly, but not addressed on the form).

Sprinkler Conversion from WSB Rental Application (running 5 - 7 heads per zone at 20 - 25 gpm/head): $5 \text{ heads} \times 20 \text{ gpm} = 100 \text{ gpm} \times 0.00223 = 0.22 \text{ cfs}$

Recommend:

Allowing irrigation of 1.1 acres at 0.02 cfs/acre = 0.02 cfs (rented from WSB 63-32985 Lease)
Domestic (from 63-18786 internal/external) = 0.04 cfs
Total Diversion from this well = 0.06 cfs (calculations above show capacity within range)

Volume:

Vir = 1.1 acres X 4.5 irrigation requirement = 4.95 af = 5.0 AF
Vdr = 0.02 cfs X 260 days X 1.9835 = 10.3 af
V = 5.0 af

Overlaps:

POU Overlap: None

POD Overlap: 63-18786 Domestic internal/external groundwater source (an ownership change form was emailed to Brian McCauley, since the water right is still in the name of Olani Beal).

Season of Use:

Administrative Area for the new POU shows 3/1 – 11/15, but the season of use stayed the same in accordance with water right 63-32985, with the shoulder remark condition added: S39.

FEES:

Taking the drawing submitted by Brian McCauley, and subtracting out the drive-way and shop, ArcMap 2011 confirmed 1.1 acres will irrigated and rented from water right 63-32985 at 0.02 cfs/acre and 4.5 af/acre at \$17/af.

$\$17 \times 5.0 \text{ af} = \$85.00 \text{ per year}$

NENE 1

NWNW 4

physical address

2450 N Edgewood
Rd, Eagle
3.8 acres

1.1
acre

04N01E

SWNW

POU 63-18786

SENE

2242 N. Edgewood
Rd., Eagle
1.0 acre

63-18786
POU

Hemenway, Sandy

Subject: FW: Question for the Water Supply Bank application-- Brian McCauley
Attachments: WaterRights.pdf

From: Brian McCauley [<mailto:bmccauley@gmail.com>]
Sent: Wednesday, March 27, 2013 7:40 AM
To: Hemenway, Sandy
Subject: Re: Question for the Water Supply Bank application-- Brian McCauley

Sandy-
Thanks for your help this morning. Here are the amended documents.
Thanks,
Brian McCauley

On Tue, Mar 26, 2013 at 1:33 PM, Hemenway, Sandy <Sandy.Hemenway@idwr.idaho.gov> wrote:

Hi Brian,

I just had a couple more questions:

- (1) Is the domestic well (the one on the well driller's report that I sent you), the same well that you are using for irrigation of the 3 acres? [Yes](#)
- (2) Can you describe how you will be irrigating the 3 acres? i.e. size pipe/type, nozzle type and size, how many run at one time, at what psi will the system run at, or gravity flow, etc? [see bottom of application form](#)

Sorry for having to send you so many emails with the attachments, but they have a size limit on what we can send.

Thanks so much for all your help.

Sandy Hemenway

Sr. Water Resource Agent
IDWR/State Office
PO Box 83720 or 322 E. Front St.
Boise, ID 83720-0098
OFFICE: [\(208\) 287-4920](tel:(208)287-4920)
CELL: [\(208\) 761-0280](tel:(208)761-0280)
FAX: [\(208\) 287-6700](tel:(208)287-6700)
Email: sandy.hemenway@idwr.idaho.gov



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MAR 26 2013
DEPT OF WATER RESOURCES

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

1. WELL TAG NO. D 25995
DRILLING PERMIT NO. 874848-789292
Water Right or Injection Well No. _____

2. OWNER:
Name Olani Beal
Address 2242 Edgewood
City Engle State ID Zip 83616

3. LOCATION OF WELL by legal description:

You must provide address or Lot, Blk, Sub. or Directions to well.

Twp. 4 North ☒ or South ☐
Rge. 1 East ☒ or West ☐
Sec. 3 SW 1/4 NW 1/4 SE 1/4
Gov't Lot _____
County Ada 10 acres 160 acres
Lat: _____ Long: _____
Address of Well Site SAME

(Give at least name of road + Distance to Road or Landmark)
City _____
Lt. _____ Blk. _____ Sub. Name _____

4. USE:

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

5. TYPE OF WORK check all that apply

☐ New Well ☐ Modify ☐ Abandonment ☒ Other (Replacement etc)

6. DRILL METHOD:

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method
<u>Bentonite</u>	<u>0</u>	<u>20</u>	<u>1200</u>	<u>overbore.</u>

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
<u>8</u>	<u>1</u>	<u>142</u>	<u>.25</u>	<u>Steel</u>	☒	☐	☒	☐
<u>6</u>	<u>133</u>	<u>147</u>	<u>.250</u>	<u>Steel</u>	☐	☒	☒	☐
<u>6</u>	<u>157</u>	<u>168</u>	<u>.250</u>	<u>Steel</u>	☐	☒	☒	☐

Length of Headpipe 14' 3" Length of Tailpipe 1'
Packer ☒ Y ☐ N Type Rubber

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method _____

Screen Type & Method of Installation Stainless - Blow Down

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
<u>147</u>	<u>157</u>	<u>0.25</u>		<u>8" Tel</u>	<u>S.S.</u>	☐	☒

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

37 ft. below ground Artesian pressure _____ lb.
Depth flow encountered _____ ft. Describe access port or control devices: Well Seal

POD: Water Right 63-18786

Office Use Only			
Well ID No.			
Inspected by			
Twp	Rge	Sec	
1/4	1/4	1/4	
Lat:	:	:	Long:
:	:	:	:

12. WELL TESTS:

☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
<u>90</u>			<u>1</u>

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encounter _____

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Water	Y	N
<u>12</u>	<u>0</u>	<u>2</u>	<u>Top Soil</u>			☒
	<u>2</u>	<u>16</u>	<u>SAND</u>			☒
	<u>16</u>	<u>20</u>	<u>Brown clay</u>			☒
<u>8</u>	<u>20</u>	<u>80</u>	<u>SAND - Gravel</u>			☒
	<u>80</u>	<u>137</u>	<u>Coarse Brown SAND</u>	☒		
	<u>137</u>	<u>142</u>	<u>Brown clay</u>	☒		
	<u>142</u>	<u>157</u>	<u>Fine SAND - clay</u>	☒		

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DEC 23 2002

WATER RESOURCES
WESTERN REGION

Completed Depth 158 (Measurable)
Date: Started 11-21-02 Completed 11-26-02

14. DRILLER'S CERTIFICATION

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

Company Name DENNIS PHIPPS WELL DRILLING, INC. Firm No. 332
2088 BENTLEY AVE.
MERIDIAN, IDAHO 83642

Principal Driller Dennis Phipps Date 12-1-02
and
Driller or Operator II _____ Date _____

Operator I _____ Date _____

Principal Driller and Rig Operator Required.
Operator I must have signature of Driller/Operator II.

FORWARD WHITE COPY TO WATER RESOURCES