

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 61-7743

Exam Date: 9/17/2012

1. Current Owner: J R SIMPLOT CO
C/O TERRY UHLING
999 MAIN ST STE 1300
BOISE ID 83707
(208)336-2110
2. Accompanied by: Chuck Jones
Phone No: (208) 834-2231
Address: HC, Box 275, Grandview, ID 83624
Relationship to Permit Holder: Feedlot Manager

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: none

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

GROUND WATER SE1/4SE1/4 Sec. 16, Twp 03S, Rge 06E, B.M. ELMORE County

Method of Determination: Visual Inspection and Existing Spatial Data information

2.

PLACE OF USE: DOMESTIC

Twp Rge Sec	NE				NW				SW				SE				Totals
03S 06E 16	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	X
																	-

FIRE PROTECTION same as DOMESTIC

2.

PLACE OF USE: FISH PROPAGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
18N 24E 9	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	X

Method of Determination: Visual Inspection and GIS

3. YES Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.

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

YES Photo of Diversion and System Attached

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
Site Tag # A0016992	Unknown	5	Unknown	Unknown	Unknown

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements: There was no reasonable place to attain a flow measurement. Therefore, I theoretical calculation was used. The theoretical calculation matched the flow rating supplied from the applicant.

E. FLOW CALCULATIONS

X Additional Computation Sheets Attached

Measured Method:

Theoretical Calculation = 0.06 cfs

Permit allowed = 0.04 cfs for the domestic use and 0.56 cfs for fire protection.

License recommend for 0.04 cfs for domestic use and 0.06 cfs for fire protection.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

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

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

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

2. Volume Calculations for Other Uses:

The domestic use for this permit is for a small commercial office. This office supports 13 employees. The permit limits this use to 2500 gpd. I used the highest standard of construction workers or 50 gpd per employee to determine if this use fit within the condition limitation.

$$13 \text{ employees} \times 50 \text{ gpd} = 650 \text{ gpd}$$

Whereas the total use of this water right is under the 2,500 gpd limitation, no volume should be assessed to this water right and the condition limiting this permit to 2,500 gpd be carried over to licensing.

G. NARRATIVE/REMARKS/COMMENTS

The water for this permit was diverted from a well located in the SE1/4 of the SE1/4 of Section 16, Township 3 South, Range 6 East. The water is diverted to the east to serve the office of the feed storage facility. Approximately 13 employees use this office. The office has bathrooms and a break room. The water from the well also travels north to a fire hydrant, and south to a 10,000 to 15,000 gallon storage tank used for fire protection. The owner could not provide the size or dimensions for the storage tank. There was no fire protection storage component on the permit, and there was a condition that clearly states that the fire protection use is to fight an existing fire. A letter has been sent to the applicant and forwarded to our compliance bureau on this issue.

Water right 61-12040 was transferred to the adjoining feed processing facility. The adjoining processing facility has a separate well and the well for 61-12040 and this water right are not connected together. They are both separate systems. However, the employees for the processing plant use the same office described in this water right.

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>
FIRE PROTECTION	01/01 to 12/31	0.060 CFS	
DOMESTIC	01/01 to 12/31	0.040 CFS	
<u>Totals:</u>		0.060 CFS	

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 Daniel A. Nelson – Staff Hydrologist

Field Examiner's Name Daniel A. Nelson Date 2-12-2012

Reviewer _____ Date _____

State of Idaho
Department of Water Resources
Field Exam Map
61-7743

This map depicts the DOMESTIC place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.

06E



- Point of Diversion
- Place Of Use Boundary
- Townships
- PLS Sections
- Quarter Quarters

0 0.0275 0.055 0.11 Miles



**T3S
R6E
S16
SESE**

**T3S
R6E
S15
SWSW**

Water Right 61-7743
System Diagram
By Dan Nelson

The water from this permit is diverted from the well into 3 pipelines. The water is made available to a fire hydrant northeast of the well, the business office east of the well and a buried fire protection storage tank. I was not able to attain the dimensions of this tank, but there is no fire protection storage component on this water right. The storage component is also in a forty acre tract that was not described in this permit.

Fire Hydrant

Office

Well

Buried Fire Protection
Storage Tank.



THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 61-7743
 Examiner: Dan Nelson
 Date of Field Exam: 9/16/2003

	Option 1	OPTION 2	OPTION 3	
P/D No.:				
PUMP HORSEPOWER	5	5	5	
BOOSTER HORSEPOWER	0	0	0	
PUMPING LEVEL	431	431	431	
DISCHARGE PRESSURE	40	50	60	
FRICTION	0	8	8	
RATE OF FLOW (cfs)	0.06	0.06	0.05	AVE
(gpm)	26.4	24.9	23.9	25.1

The above calculates the formula =

$$Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$$

Assumptions: %70 efficiency.

Examiners Notes:

The applicant provided information from the pump installer stating this well supplies 25 gpm. The above calculations agree with that assessment. Therefore, I will be recommending a system capacity of 0.06 cfs or 25 gpm.

B&B well

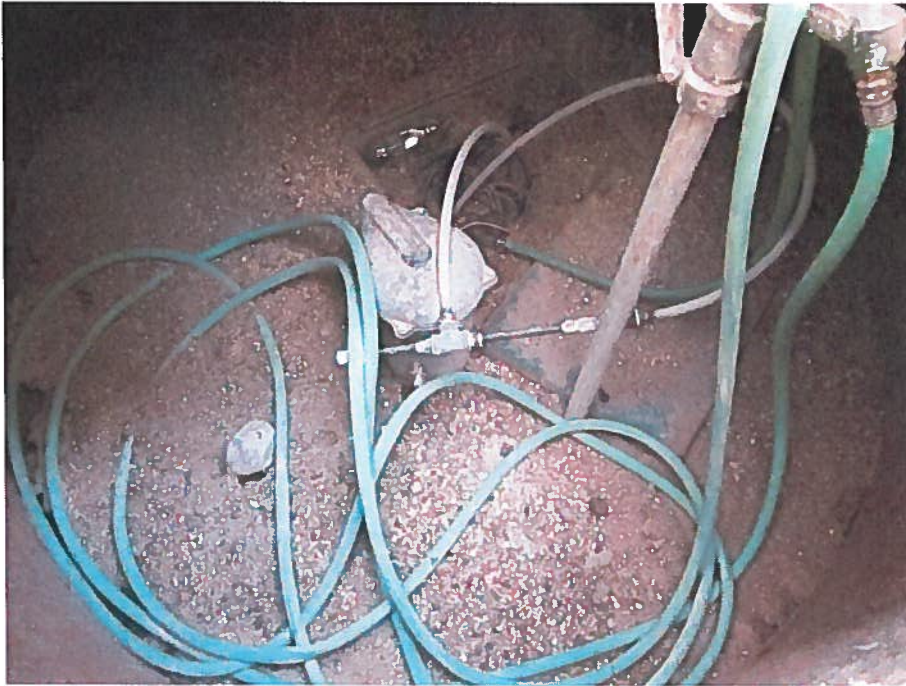
1. 550 ft. deep
2. 441 ft. pump depth
3. 295 static level
4. 5 hp. Pump
5. 25 gpm.
6. 60 psi.

Double J well

1. 561 ft. deep
2. 441 ft. pump depth
3. 212 static level
4. 30 hp. Pump
5. 200 gpm.
6. 60 psi.

PHOTOGRAPHER AND DATE OF PHOTOS DANIEL A NELSON 9/17/2012

FILE NUMBER 61-7743



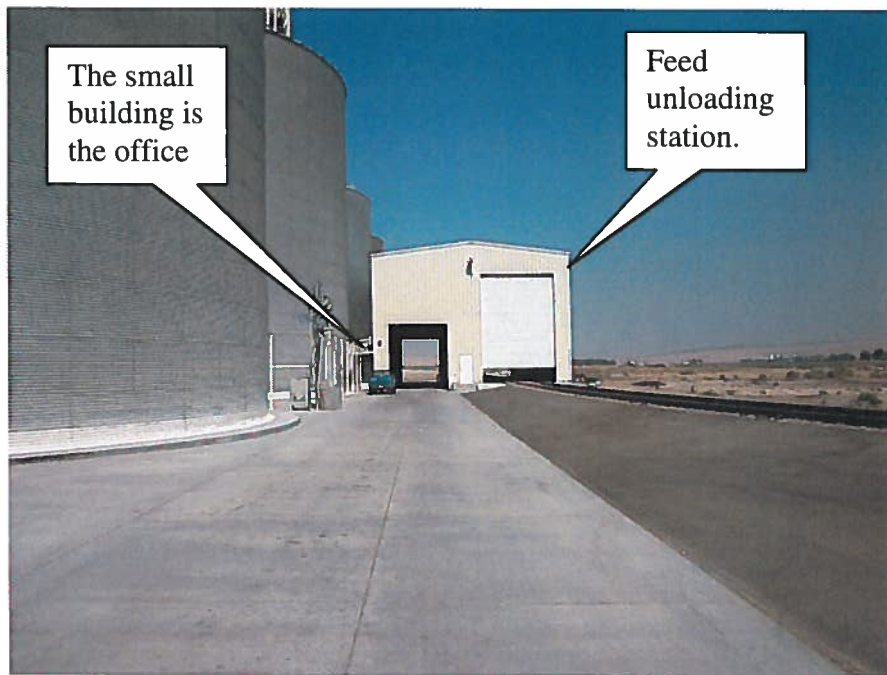
The photo above shows the well. The well is in a pit

The photo below shows the location of the pit.



PHOTOGRAPHER AND DATE OF PHOTOS DANIEL A NELSON 9/17/2012

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The photo above shows the office, which is just to the left of the feed unloading station.

The photo below shows the location of the buried storage tank used for fire protection, that doesn't have a water right.

