

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-12454

Exam Date: 9/21/2011

1. Current Owner: DORI BLANKENSHIP-CLARK
17671 OASIS RD
CALDWELL ID 83607
(208) 453-8791

JEFFREY B CLARK
17671 OASIS RD
CALDWELL ID 83607
(208) 453-8791
2. Accompanied by: Dori Clark and Jean Hersley (IDWR)
Phone No: same as above
Address: same as above
Relationship to Permit Holder: same

3. SOURCE TRIBUTARY
GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: Application for Permit 63-33584 filed for irrigation of common areas
2. Other water rights with the same point of diversion: Same as above

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINTS OF DIVERSION:**

GROUND WATER L3 NE1/4NW1/4, Sec. 6, Twp 05N, Rge 03W, B.M., CANYON County
GROUND WATER L3 NE1/4NW1/4, Sec. 6, Twp 05N, Rge 03W, B.M., CANYON County

Method of Determination: Used GPS shapes by IDEQ – Right holder agreed with locations while viewing map with points shown at field exam

2.

<u>PLACE OF USE:</u>			DOMESTIC																
Twp	Rge	Sec	NE				NW				SW				SE				
			<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>Totals</u>
05N	03W	6					X												
							L 3												

Method of Determination: Field examination

3. ☒ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable. ☒ System was buried so could not map pipelines.
☒ 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>
Well A	Unknown	5	Unknown	Unknown	40 GPM**
Well B	Unknown	5	Unknown	Unknown	40 GPM**

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

**Information provided by Treasure Valley Drilling & Pump

D. FLOW MEASUREMENTS

1.

<u>Measurement</u> <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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2. Measurements:

No measurement made. The system provides water for 48 RV trailer spaces, 1 office and 2 homes. The owners also try to keep the land around park irrigated for fire prevention. Permit limitation of 2.4 acres of irrigation in conjunction with domestic use. No common areas were allowed under permit. Owners have submitted Application for Permit 63-33584 to cover the irrigation of the common areas found to be irrigated with wells.

E. FLOW CALCULATIONS

_____Additional Computation Sheets Attached

Measured Method:

The current owners of the RV Park purchased it in February of 2011 and had no knowledge of the water right permit or the pumps in the wells. I provided them with copies of the permit and the well logs for their records. In review of the water right back-file I found that the system had been designed by Johnson Engineering. I found Johnson Engineering on the internet and it still had the same phone number as shown on correspondence in the file. I called the phone number several times but it was no longer in service. I checked the current phone directory and found that Johnson Engineering was no longer listed so believe they have gone out of business. I then contacted the well driller to see if they had any information concerning the system since the pumps were submersible and the only way to get information was to request the permit holder have the pumps pulled. It seems more reasonable to me to utilize the information provided by the well driller for this exam.

Per Treasure Valley Drilling & Pump:

$$\frac{40 \text{ gpm (2)}}{448.8} = 0.178 \text{ cfs} = 0.18 \text{ cfs}$$

Theoretical Measurements: Water level – from well logs, pressure – assumed 50 psi

$$\text{Well A } \frac{8.814 \times 5 \text{ hp} \times .70}{(2.31 \times 50) + 170} = 0.108 = 0.11 \text{ cfs}$$

$$\text{Well B } \frac{8.814 \times 5 \text{ hp} \times .70}{(2.31 \times 50) + 200} = 0.097 = 0.10 \text{ cfs}$$

Theoretical measurements are close to the amount identified by well driller.

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:

- a. Domestic use for 51 units @ 1.2 af/unit = **61.2 af**
- b. $0.18 \text{ cfs} \times 1.9835 \times 365 = \mathbf{130.3 \text{ af}}$
- c. Domestic use for 51 units @ 0.6af = 30.6 af
plus 0.6 acres at 4.5 af/ac = 2.7 af for a total of **33.3 af/year**

G. NARRATIVE/REMARKS/COMMENTS

This permit was developed and in use at time of field exam. See photos of the RV Park attached. The system consists of two wells providing water for 48 RV Trailer hookups, 2 houses and 1 office. The permit also allows 2.4 acres of irrigation in conjunction with the RV Park. The current owners purchased the property in February of 2011 and did not have any information on the system except that it provided plenty of water for their use. Folks renting RV spaces have raved about the good water pressure available for their motor homes when they are staying there. The wells had been GPS'd by DEQ so those points are the locations used for this exam.

Have conditions of permit approval been met? ☒ Yes ☐ No

At the time of the exam the permit holders were irrigating common areas, along with the grass between RV spaces. When I explained that the permit specifically stated: "This right does not provide for irrigation of common areas", they promptly filed Application for Permit 63-33584 to correct this situation. They had not seen the permit prior to my field examination.

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	0.18 CFS	33.3 af/year
<u>Totals:</u>		0.18 CFS	33.3 af/year

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 Kay Walker Date 10-25-2011

Reviewer _____ Date _____



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Picture of both wells – Well A in foreground – Well B back by jeep



Picture of one of the homes under this permit



Garden area in back of pictures – place of use in NW corner of property



Typical RV trailer space



More RV spaces



Office Building at RV Park