

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 25-13984

Exam Date: 3/10/2015

1. Current Owner: 3D WATER ASSOCIATION INC
C/O DARRELL PATTERSON
2323 E BERGGREN LN
IDAHO FALLS ID 83401
(208) 524-1846

2. Accompanied by: Ryan Loftus, Darrell Patterson

Phone No:

Address:

Relationship to Permit Holder:

3. SOURCETRIBUTARY

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use:
2. Other water rights with the same point of diversion: 25-14071, 25-14194, 25-14198

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

GROUND WATER	SE1/4SE1/4	Sec. 16, Twp 03N, Rge 38E, B.M.
BONNEVILLE County		
GROUND WATER	NE1/4NE1/4	Sec. 21, Twp 03N, Rge 38E, B.M.
BONNEVILLE County		
GROUND WATER	NE1/4NE1/4	Sec. 21, Twp 03N, Rge 38E, B.M.
BONNEVILLE County		

Method of Determination: Aerial photography and GPS

2.

PLACE OF USE: DOMESTIC

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N	38E	21	X																

Method of Determination: Aerial photography

3. _____ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- ☒ 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 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 Size</u>
Well #1 D0032093	Goulds	25		Goulds	7CLC-3 (3 stage, 6" Discharge)
Well #2 D0032159	Goulds	30		Goulds	7CLC-3 (3 stage, 6" Discharge)
Well # 3 D0049764	Goulds	60		American Pump	9RCLC (2 stage, 8" Discharge)

D. FLOW MEASUREMENTS

1.

<u>Measurement Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
Fuji Ultrasonic Flow Meter		Fuji				

2. Measurements:

Ultrasonic flow meter was used to measure discharge from the three wells.

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method: Fuji Ultrasonic Flow meter

Well#1 Q= 237.0 GPM = 0.53 cfs

Well#2 Q= 360.0 GPM = 0.80 cfs

Well#3 Q= 807.9 GPM = 1.8 cfs

Total Q = 1404.9 GPM = 3.13 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: N/A

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

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

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

2. Volume Calculations for Other Uses:

In-house use: 38 homes X 0.6 AF/home = 22.8 AF

Irrigation: 38 lots X 0.6 af/lot = 22.8 AF

Total volume = 45.6 Acre-Feet

G. NARRATIVE/REMARKS/COMMENTS

Water delivery system consists of three submersed ground water pumps pumping water into a common mainline that supplies water to three subdivisions. This water delivery system provides water for domestic purposes (including irrigation) to the Sweet Country Estates, Fairview Estates and Timberline Estates Subdivisions. This right is for 52 homes in the Sweet Country Estates Subdivision. Right 25-13984 is for 38 homes in the Fairview Estates Subdivision. Right 25-14071 is for 44 homes and right 25-14194 is for 42 homes in the Timberline Estates Subdivision. Field exams for rights 25-14194, 25-14198, 25-13984 and 25-14071 was conducted at the same time. Jason Helms was hired to complete the field exams for the Timberline Estates Subdivision water rights (25-14194, 25-14071).

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	0.550 CFS	45.6 AF
	<u>Totals:</u>	0.550 CFS	45.6 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 Blake Jordan Date 3/10/2015

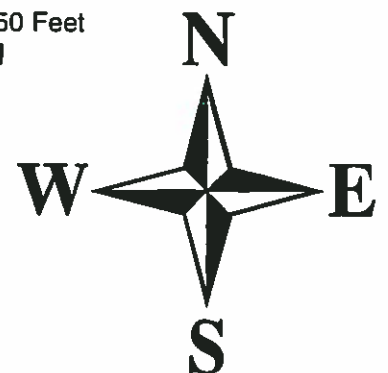
Reviewer _____ Date _____

25-13984



0 162.5 325 650 Feet

1 inch = 273 feet



● Point(s)_of_Diversion

Place_of_Use

Township/Range

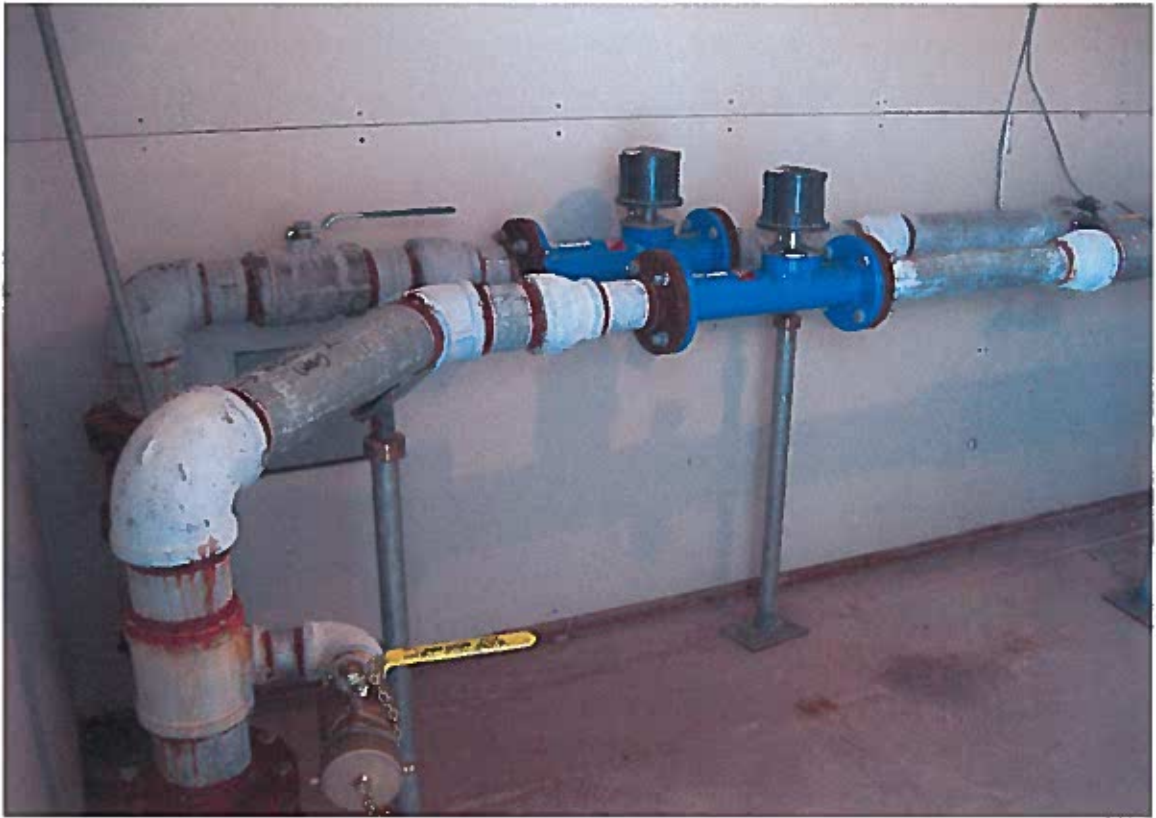
Sections

QQ

Well #1 (East well)



Well #2 (West well)



Well #3 (North well)

