

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 96-09429

Exam Date: 8/2/2016

1. Current Owner:
SAGLE VALLEY WATER & SEWER DISTRICT PO BOX 901 SAGLE ID 83860-0901 (208)265-2527

2. Accompanied by: Bob Hansen
Phone No: 208-265-4270
Address: 67 Wild Horse Trail Sandpoint ID 83864
Relationship to Permit Holder: System operator

3. **SOURCE:**
GROUND WATER

TRIBUTARY:**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: 96-7916, 96-9004
2. Other water rights with the same point-of-diversion: 96-7916, 96-9004

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

GROUND WATER SW¼NE¼ Sec. 16, Twp 56N, Rge 02W, B.M. BONNER County
GROUND WATER SW¼NE¼ Sec. 16, Twp 56N, Rge 02W, B.M. BONNER County
GROUND WATER NW¼NE¼ Sec. 16, Twp 56N, Rge 02W, B.M. BONNER County

Method of Determination: Maps and GPS. PODs located at:

D0005671 at 48° 12.079, 116° 34.454 (A002004)
D0005672 at 48° 12.074, 116° 34.446 (A002005)
96-80-N-25 at 48° 12.406, 116° 34.423 (A0003216)

2.

Method of Determination: Google Earth and Arc map.

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.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
D0005671		7.5			
D0005672		7.5			
96-80-N-25		7.5			

*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
FLOWMETER	DISC METER	RECORDALL	170			

2. Measurements: FLOW METERS ON EACH WELL ALLOWED MEASUREMENT.

D0005671 = 100 GPM

D0005672 = 100 GPM

96-80-N-25 = 86 GPM

2. Volume Calculations for Other Uses: NO VOLUME FOR MUNICIPAL

G. NARRATIVE/REMARKS/COMMENTS

Field exam with Bob Hansen of Water Systems Mgt Inc (operator of system) showed three wells serving the community system. The application and permit were for two wells, but will be amended to include a 3rd well on system that was drilled in 1980. The two wells that were on permit were both drilled in 1998 and each well had a 7.5hp pump. Each well had a flow meter and each well produced 100 gpm or combined 200 gpm or 0.45 cfs. 3rd well to be added to license also had a flow meter on and produced 86 gpm.

This right is the 3rd in the name of the applicant who also has rights 96-7916 and 96-9004. Water right 96-7916 is for domestic and irrigation from a well drilled 1980 (3rd well to be added) with a diversion rate of 0.20 cfs and an annual volume of 42.3 acre feet. Water right 96-9004 is for municipal with all three points of diversions with a diversion rate of 0.30 cfs and an annual volume of 51.0 acre feet. 96-9004 was originally applied for from wells D0005671 and D0005672 and was given credit for what those wells could produce with a 5hp pump in each. It was amended to municipal and 3rd well was added at time of licensing. Applicants then put a 7.5hp pump in each well and started diverting more water than what was licensed. Thus, a new application for permit was applied for 96-9429.

Knowing that applicant only needed a greater diversion rate because larger pumps were installed should have only applied for the increased rate above 0.30 cfs. It was discussed between the Northern Region and the State Office on how to license this permit. Should we issue it for 0.45 cfs and overlap with other two licenses, or should we only license for the incremental increase above 0.30 cfs? It was decided we should amend the license to show all 3 wells that serve the system and only issue license for the increase above 0.30 cfs which is 0.15 cfs. License will not be given an annual volume and will not have an overlap with 96-7916 and 96-9004.

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>
MUNICIPAL	01/01 to 12/31	0.15 CFS	
<u>Totals:</u>		0.150 CFS	

2. Recommended Amendments

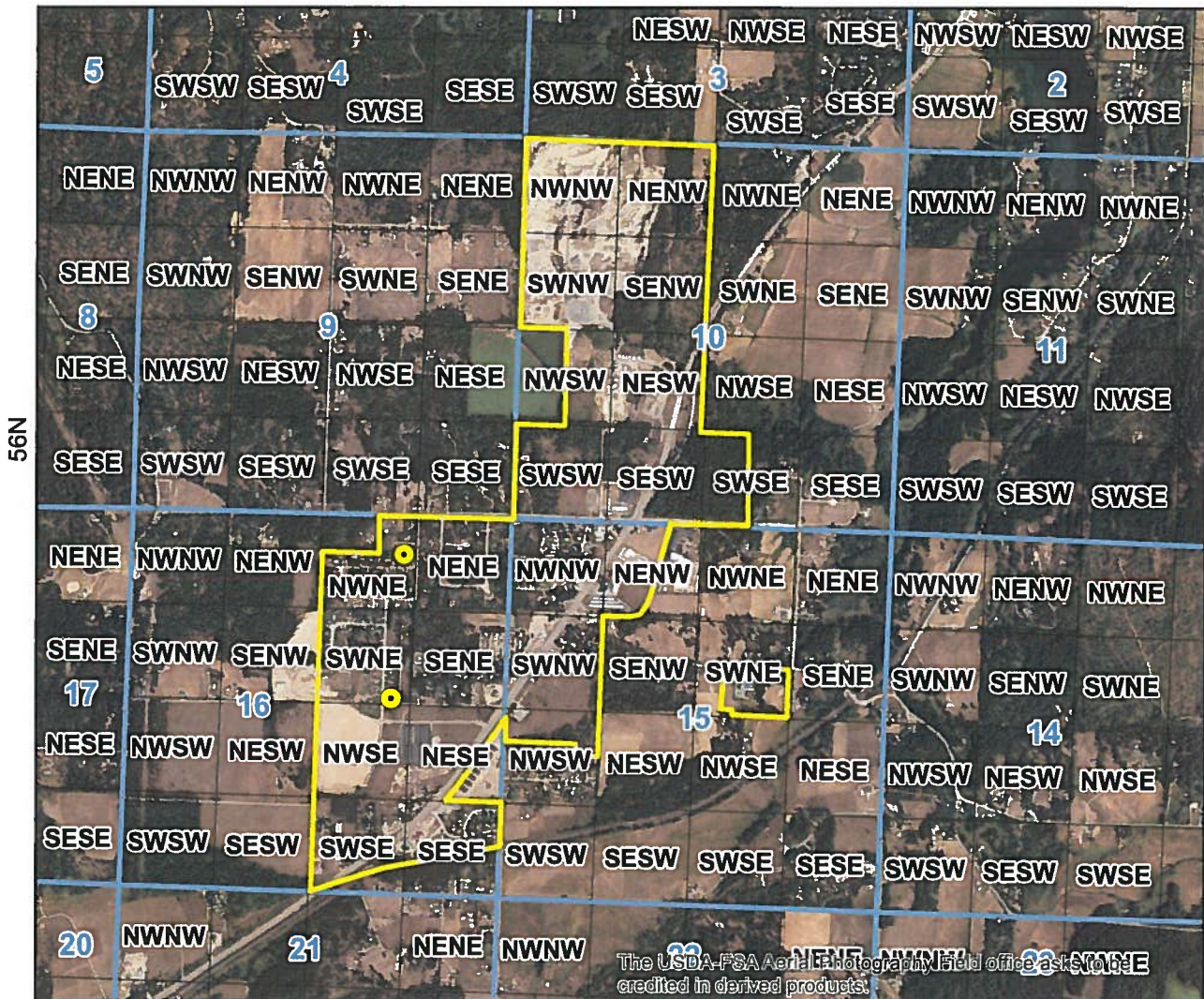
☐ Change P.D. as reflected above ☒ Add P.D. as reflected above ☐ None
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☒ None

I. AUTHENTICATION

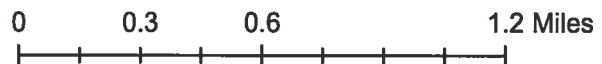
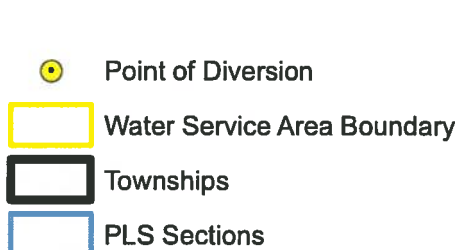
Field Examiner's Name Adam Fink Date 5-4-2017
Reviewer Morgan Case Date 5/5/2017

Attachment to Field Exam

02W



The USDA-FSA Aerial Photography Field office asks to be credited in derived products:





Badger Meter

Recordall® Disc Meters

Model 170, Lead-Free Bronze Alloy, Size 2" (DN 50 mm)
NSF/ANSI Standards 61 and 372 Certified

DESCRIPTION

The Recordall Model 170 Disc Series meters meet or exceed the most recent revision of AWWA Standard C700 and are available in a lead-free bronze alloy. The Model 170 meters comply with the lead-free provisions of the Safe Drinking Water Act, are certified to NSF/ANSI Standards 61 and 372 (Trade Designation: M170-LL) and carry the NSF-61 mark on the housing. All components of the lead-free bronze alloy meter (housing, measuring element, seals, and so on) comprise the certified system.

Applications: For use in measurement of potable cold water in residential, commercial and industrial services where flow is in one direction only.

Operation: Water flows through the meter's strainer and into the measuring chamber where it causes the disc to nutate. The disc, which moves freely, nutates on its own ball, guided by a thrust roller. A drive magnet transmits the motion of the disc to a follower magnet located within the permanently sealed register. The follower magnet is connected to the register gear train. The gear train reduces the disc nutations into volume totalization units displayed on the register or encoder face.

Operating Performance: The Recordall Disc Series meters meet or exceed registration accuracy for the low flow rates (95%), normal operating flow rates ($100 \pm 1.5\%$), and maximum continuous operation flow rates as specifically stated in AWWA Standard C700.

Construction: Recordall Disc meter construction, which complies with ANSI/AWWA standard C700, consists of three basic components: meter housing, measuring chamber, and permanently sealed register. The water meter is available in a lead-free bronze alloy with externally-threaded spuds. A corrosion-resistant engineered polymer material is used for the measuring chamber.

Magnetic Drive: Direct magnetic drive, through the use of high-strength magnets, provides positive, reliable and dependable register coupling for straight-reading or AMR/AMI meter reading options.

Tamper-Proof Features: Unauthorized removal of the register or encoder is inhibited by the option of a tamper detection seal wire screw, TORX® tamper-resistant seal screw or the proprietary tamper-resistant keyed seal screw. Each can be installed at the meter site or at the factory.

Maintenance: Badger Meter Recordall Disc Series meters are designed and manufactured to provide long-term service with minimal maintenance. When maintenance is required, it can be performed easily either at the meter installation or at any other convenient location.

To simplify maintenance, the register, measuring chamber, and strainer can be replaced without removing the meter housing from the installation. No change gears are required for accuracy calibration. Interchangeability of parts among like-sized meters also minimizes spare parts inventory investment. The built-in strainer has an effective straining area of twice the inlet size.

Connections: Tailpieces/Unions for installations of meters on various pipe types and sizes, including misaligned pipes, are available as an option.



SPECIFICATIONS

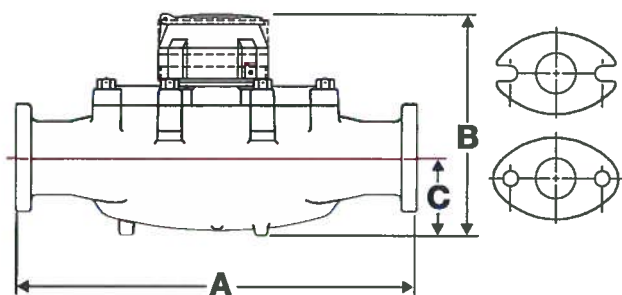
Model 170 Disc Series Meter

Typical Operating Range (100% $\pm$ 1.5%)	2.5...170 gpm (0.57...39 m ³ /hr)
Low Flow (Min. 95%)	1.5 gpm (0.34 m ³ /hr)
Maximum Continuous Operation	100 gpm (23 m ³ /hr)
Pressure Loss at Maximum Continuous Operation	3.3 psi at 100 gpm (0.23 bar at 23 m ³ /hr)
Maximum Operating Temperature	80° F (26° C)
Maximum Operating Pressure	150 psi (10 bar)
Measuring Element	Nutating disc, positive displacement
Meter Connections	2" AWWA two-bolt elliptical flange, drilled or 2...11-1/2 NPT internal pipe threads
Test Plugs	Optional 1" NPT test plug (TP) available on elliptical long and short versions

Materials

Meter Housing	Lead-free bronze alloy
Housing Bottom Plates	Lead-free bronze alloy
Measuring Chamber	Engineered polymer
Disc	Engineered polymer
Trim	Stainless steel
Strainer	Engineered polymer
Disc Spindle	Stainless steel
Magnet	Ceramic
Magnet Spindle	Stainless steel
Register Lid and Shroud	Engineered polymer or bronze

DIMENSIONS



Meter Size	Meter Model	A Laying Length	B Height Reg./RTR	C Centerline Base	Width	Approx. Shipping Weight
2" (50 mm)	170 EL, Hex 170 EL, TP	15-1/4" (387 mm)	8" (203 mm)	2-7/8" (73 mm)	9-1/2" (241 mm)	30 lb (13.6 kg)
2" (50 mm)	170 ELL 170 ELL, TP	17" (432 mm)	8" (203 mm)	2-7/8" (73 mm)	8-1/2" (214 mm)	30 lb (13.6 kg)

EL = Elliptical

ELL = Elliptical Long

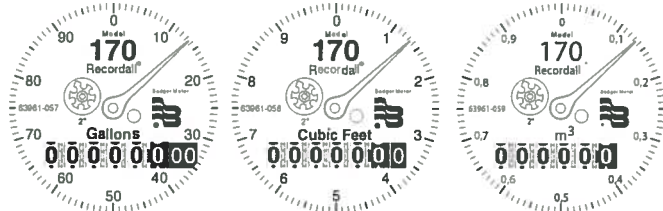
Hex = Hexagon, 2...11-1/2" NPT Thread

TP=Test Plug 1"

REGISTERS / ENCODERS

Standard—Sweep-Hand Registration

The standard register is a straight-reading, permanently sealed magnetic drive register. Dirt, moisture, tampering and lens fogging problems are eliminated. The register has a six-odometer wheel totalization display, 360° test circle with center sweep hand, and flow finder to detect leaks. Register gearing is made of self-lubricating engineered polymer, which minimizes friction and provides long life. The multi-position register simplifies meter installation and reading. The register capacity is 100,000,000 gallons (10,000,000 ft³, 1,000,000 m³).



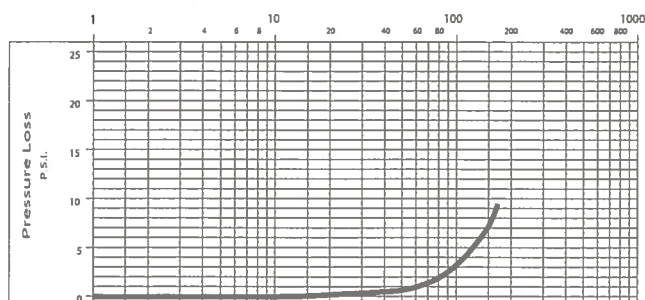
Meter Model	Gallon	Cubic Feet	Cubic Meter
170	100	10	1

Optional—Encoders for AMR/AMI Reading Solutions

AMR/AMI solutions are available for all Recordall Disc Series meters. All reading options can be removed from the meter without disrupting water service. Badger Meter encoders provide years of reliable, accurate readings for a variety of applications and are also available pre-wired to Badger Meter approved AMR/AMI solutions. See details at www.badgermeter.com.

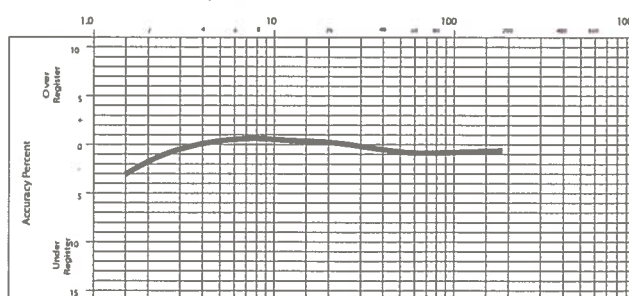
PRESSURE LOSS CHART

Rate of Flow in Gallons per Minute



ACCURACY CHART

Rate of Flow in Gallons per Minute



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www.badgermeter.com

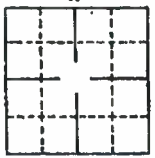
The Americas | Badger Meter | 4545 West Brown Deer Rd | PO Box 245036 | Milwaukee, WI 53224-9536 | 800-876-3837 | 414-355-0400
 México | Badger Meter de las Americas, S.A. de C.V. | Pedro Luis Ogazón N°32 | Esq. Angelina N°24 | Colonia Guadalupe Inn | CP 01050 | México, DF | México | +52-55-5662-0882
 Europe, Middle East and Africa | Badger Meter Europa GmbH | Nürtinger Str 76 | 72639 Neuffen | Germany | +49-7025-9208-0
 Czech Republic | Badger Meter Czech Republic s.r.o. | Malíkova 2082/26 | 621 00 Brno, Czech Republic | +420-5-41420411
 Slovakia | Badger Meter Slovakia s.r.o. | Račianska 109/B | 831 02 Bratislava, Slovakia | +421-2-44 63 83 01
 Asia Pacific | Badger Meter | 80 Marine Parade Rd | 21-04 Parkway Parade | Singapore 449269 | +65-63464836
 China | Badger Meter | 7-1202 | 99 Hangzhong Road | Minhang District | Shanghai | China 201101 | +86-21-5763 5412

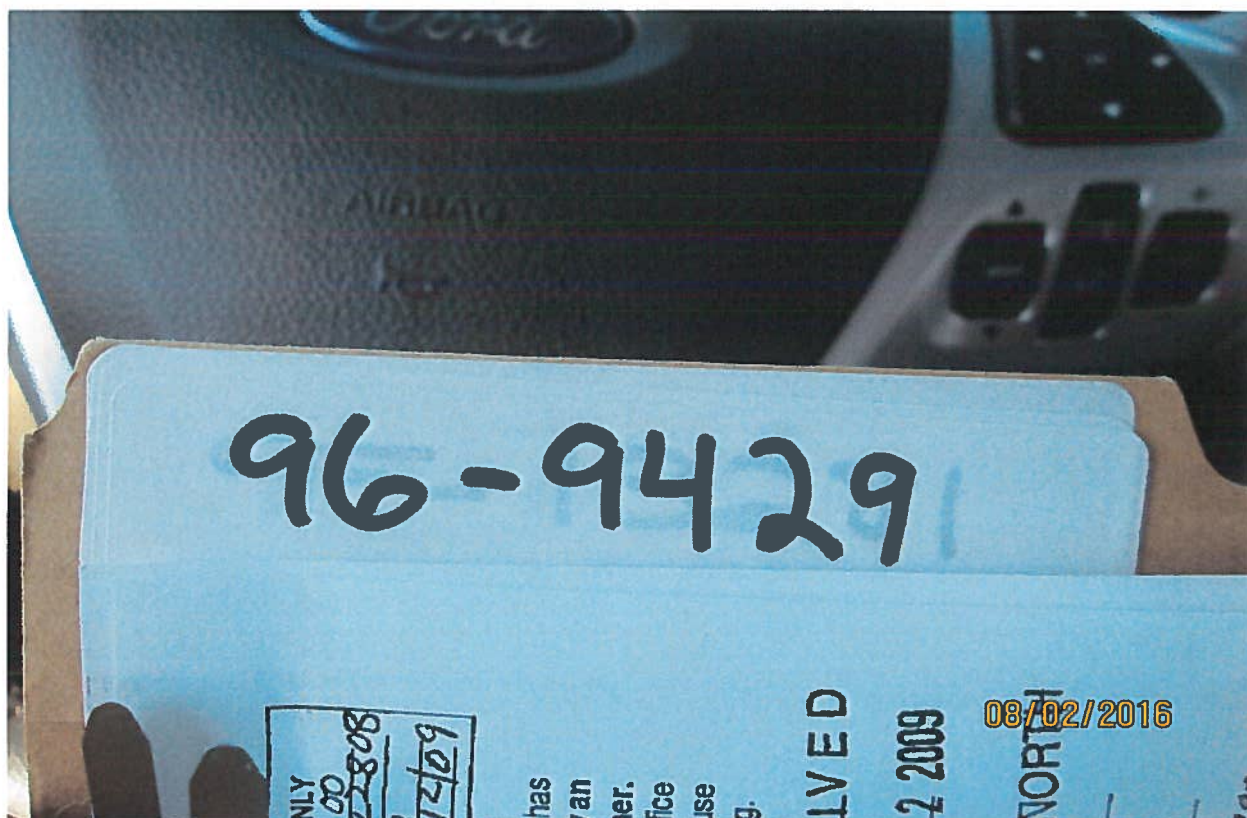
Legacy Document Number: RD-T-2

(Jim McLeslie)

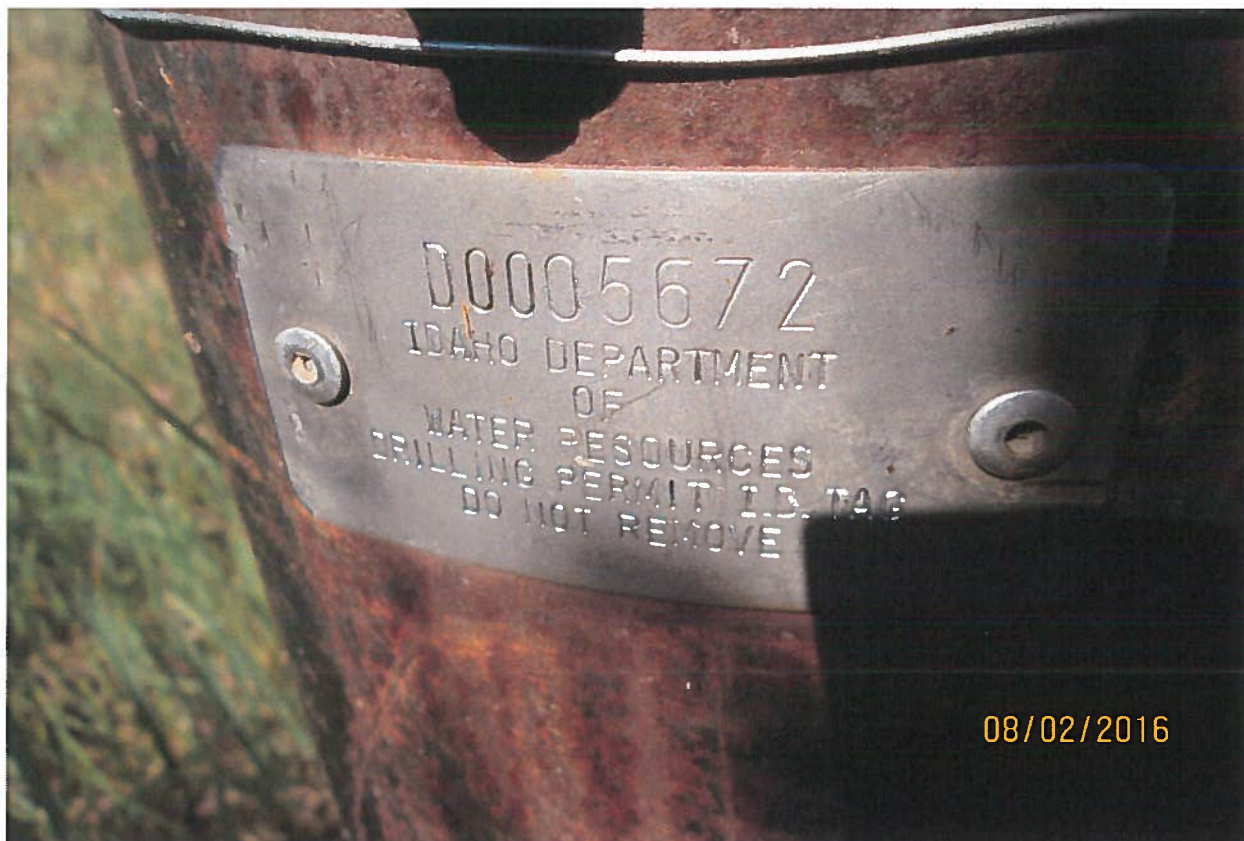
WELL DRILLER'S REPORT

State law requires that this report be filed with the Director, Department of Water Resources
within 30 days after the completion or abandonment of the well.

1. WELL OWNER Name <u>Sagle Valley Investment Company</u> Address <u>Route 2, Bx 276A, Sandpoint, Id. 83864</u> Owner's Permit No. <u>96-07916</u>	7. WATER LEVEL Static water level <u>82'</u> feet below land surface. Flowing? ☐ Yes ☒ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature _____ °F. Quality _____																																																				
2. NATURE OF WORK <u>754376 / 96-80-N-25</u> ☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe method of abandoning) _____	8. WELL TEST DATA ☐ Pump ☐ Bailor ☒ Air ☐ Other _____ <table border="1"><thead><tr><th>Discharge G.P.M.</th><th>Pumping Level</th><th>Hours Pumped</th></tr></thead><tbody><tr><td>100 + G.P.M. Estimated Airlift</td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></tbody></table>	Discharge G.P.M.	Pumping Level	Hours Pumped	100 + G.P.M. Estimated Airlift																																																
Discharge G.P.M.	Pumping Level	Hours Pumped																																																			
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3. PROPOSED USE ☒ Domestic ☐ Irrigation ☐ Test ☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection ☐ Other _____ (specify type)	9. LITHOLOGIC LOG <table border="1"><thead><tr><th rowspan="2">Hole Diam.</th><th colspan="2">Depth</th><th rowspan="2">Material</th><th rowspan="2">Water Yes/No</th></tr><tr><th>From</th><th>To</th></tr></thead><tbody><tr><td>10"</td><td>0</td><td>2</td><td>Top Soil</td><td></td></tr><tr><td>10"</td><td>2</td><td>18</td><td>Sand & Silt</td><td></td></tr><tr><td>8"</td><td>18</td><td>55</td><td>Sand & Gravel</td><td></td></tr><tr><td>8"</td><td>55</td><td>60</td><td>Gravel</td><td></td></tr><tr><td>8"</td><td>60</td><td>75</td><td>Silt & Sand</td><td></td></tr><tr><td>8"</td><td>75</td><td>80</td><td>Sand - Trace of water</td><td>X</td></tr><tr><td>8"</td><td>80</td><td>195</td><td>Silty sand</td><td></td></tr><tr><td>8"</td><td>195</td><td>225</td><td>Sand, Gravel, & Water</td><td>X</td></tr><tr><td></td><td></td><td>225</td><td>Granite</td><td></td></tr></tbody></table>	Hole Diam.	Depth		Material	Water Yes/No	From	To	10"	0	2	Top Soil		10"	2	18	Sand & Silt		8"	18	55	Sand & Gravel		8"	55	60	Gravel		8"	60	75	Silt & Sand		8"	75	80	Sand - Trace of water	X	8"	80	195	Silty sand		8"	195	225	Sand, Gravel, & Water	X			225	Granite	
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4. METHOD DRILLED ☒ Rotary ☐ Air ☐ Hydraulic ☐ Reverse rotary ☐ Cable ☐ Dug ☐ Other _____																																																					
5. WELL CONSTRUCTION Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____ Thickness _____ Diameter _____ From _____ To _____ _____ inches _____ 8 inches + 2 feet 216 feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet Was casing drive shoe used? ☒ Yes ☐ No Was a packer or seal used? ☒ Yes ☐ No Perforated? ☐ Yes ☒ No How perforated? ☐ Factory ☐ Knife ☐ Torch Size of perforation _____ inches by _____ inches Number _____ From _____ To _____ _____ perforations _____ feet _____ feet _____ perforations _____ feet _____ feet _____ perforations _____ feet _____ feet Well screen installed? ☒ Yes ☐ No Manufacturer's name <u>Johnson</u> Type <u>Stainless</u> Model No. _____ Diameter <u>8"</u> Slot size <u>60</u> Set from <u>215</u> feet to <u>225</u> feet Diameter _____ Slot size _____ Set from _____ feet to _____ feet Gravel packed? ☐ Yes ☒ No ☐ Size of gravel _____ Placed from _____ feet to _____ feet Surface seal depth <u>18'</u> Material used in seal: ☐ Cement grout ☒ Puddling clay ☒ Well cuttings Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing ☒ Overbore to seal depth Method of joining casing: ☐ Threaded ☒ Welded ☐ Solvent Weld _____ ☐ Cemented between strata Describe access port _____																																																					
6. LOCATION OF WELL Sketch map location must agree with written location.  Subdivision Name _____ Lot No. _____ Block No. _____ County <u>Bonner</u> SE 1/4 NE 1/4 Sec. 16, T. 56 N N/S, R. 2W E/W	10. Work started <u>May 28, 1980</u> finished <u>May 30, 1980</u>																																																				
	11. DRILLERS CERTIFICATION I/We certify that all minimum well construction standards were complied with at the time the rig was removed. <u>Ponderosa Drilling</u> Firm Name & Development, Inc. Firm No. <u>228</u> E. 6010 Broadway Address <u>Spokane, Wa. 99206</u> Date <u>5/31/80</u> Signed by (Firm Official) <u>Michael Barrat</u> Scott and <u>Barrat</u> (Operator) <u>James D. Barrat</u>																																																				



Well D0005671 given IDWR tag A002004. 7.5hp pump in well that produced 100 gpm per flow meter.



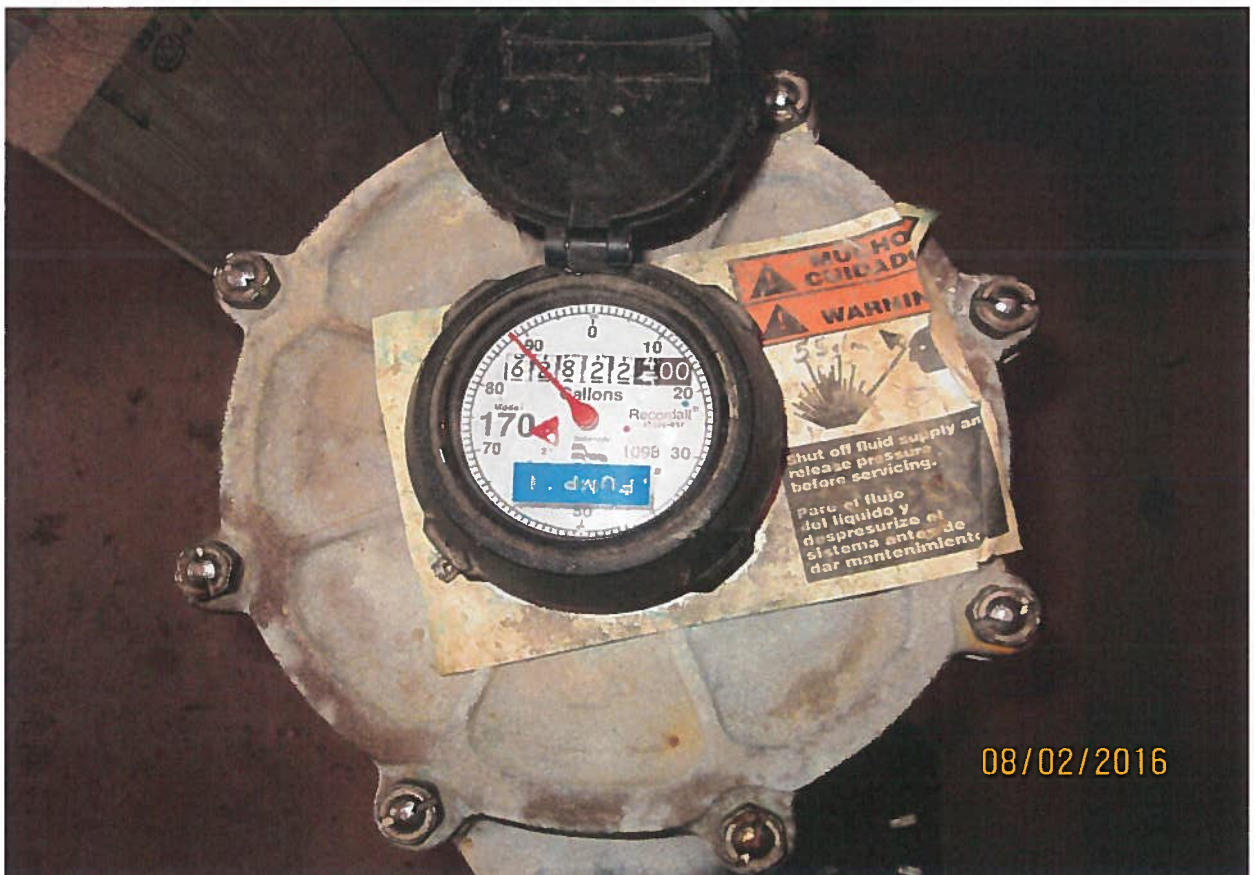
Well D0005672 given IDWR tag A002005. 7.5hp pump in well that produced 100 gpm per flow meter.



Location of both wells adjacent to pump house.



Pump house.



Flow meter.



Flow meter.



3rd well to be amended at time of licensing. Given IDWR tag A0003216, flow rate at 86 gpm.



State of Idaho

DEPARTMENT OF WATER RESOURCES

Northern Region • 7600 N. Mineral Drive, Suite 100 • Coeur d'Alene, Idaho 83815-7763
Phone: (208) 762-2800 • Fax: (208) 762-2819 • Website: www.idwr.idaho.gov

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

April 10, 2017

SAGLE VALLEY WATER & SEWER DISTRICT
83 MEADOWLARK DR
SAGLE ID 83860

RE: Permit No. 96-9429

Dear Permit Holders:

I previously forwarded to you an Application for Amendment so that you could amend Permit No. 96-9429 to correspond with the findings of the Department's field examiner. I have not yet received your response.

If I do not receive the amendments and the \$100.00 fee within fourteen (14) days, your Water Right License will be issued for less than could have been allowed. In case the amendment form I sent you has been misplaced, a new one is enclosed.

If you have any questions, please contact me as soon as possible at (208) 762-2800.

Sincerely,

Adam Frederick
Senior Water Resource Agent

Enclosures(s): Application for Amendment



State of Idaho

DEPARTMENT OF WATER RESOURCES

Northern Region • 7600 N. Mineral Drive, Suite 100 • Coeur d'Alene, Idaho 83815-7763
Phone: (208) 762-2800 • Fax: (208) 762-2819 • Website: www.idwr.idaho.gov

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

March 20, 2017

SAGLE VALLEY WATER & SEWER DISTRICT
83 MEADOWLARK DR
SAGLE ID 83860

RE: Water Right Permit No. 96-09429

Dear Permit Holder(s):

The Department of Water Resources is reviewing the permit(s) referenced above prior to issuing water right license(s). By issuing a license, the Department confirms the extent of development that has been established in compliance with the terms of the permit. The examiner who verified your water use reported that certain elements of the permit(s) have been developed differently than described on your permit(s). Changes that do not increase the authorized use of water under the permit(s) can be requested and approved in accordance with Section 42-211, Idaho Code. Before license(s) can be issued, your permit(s) must be amended to depict your water use as it was actually developed.

Based on the examiner's report, the following elements were developed differently than described on your permit(s):

☒ **Point(s) of Diversion**

☐ **Place(s) of Use**

☐ **Other**

The enclosed Application for Amendment form(s) depicts the elements of the water right(s) as they will appear on the license(s) when issued. Please review the amendment form(s) carefully. If you concur with the information presented, please sign and return the form(s) with the \$100.00 filing fee within 14 days.

If you have any questions, please call me at 208-762-2800.

Sincerely,

Adam Frederick
Senior Water Resource Agent

Enclosure(s): Application for Amendment