

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 35-13701

Exam Date: 8/17/2015

1. Current Owner: CITY OF ATOMIC CITY
PO BOX 34
ATOMIC CITY ID 83215
(208)684-4037

2. Accompanied by: Don Sorter

Phone No: (208)681-5806

Address:

Relationship to Permit Holder: Water system operator

3. SOURCETRIBUTARY

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 35-4209
2. Other water rights with the same point of diversion: 35-4209

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

GROUND WATER	NE1/4SW1/4	Sec. 3,	Twp 01N,	Rge 31E, B.M.
BINGHAM County				
GROUND WATER	SE1/4SW1/4	Sec. 3,	Twp 01N,	Rge 31E, B.M.
BINGHAM County				

Method of Determination: GPS and aerial photography

2.

PLACE OF USE: MUNICIPAL

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
01N	31E	3							X	X	X	X	X	X					
									L 4	L 3									

Method of Determination: Aerial photography and site visit

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

D. FLOW MEASUREMENTS

1. Measurements: A pump curve and WMIS records is being used to determine rate of diversion from well #1 and well #2.

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method:

- WMIS # 1000342: 2011 measurement for well #1 =124.9 gallons per minute.
- Pump curve for well # 2 = 115.0 gallons per minute.
- Total rate = 239.9 gallons per minute or 0.53 cfs.
- Right 35-4209 = 0.27 cfs
- Right 35-13701 will be licensed for 0.26 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: N/A

G. NARRATIVE/REMARKS/COMMENTS

Two submersible pumps discharge into a 50,000 gallon storage tank. Each pump is equipped with its own flowmeter. Currently well #1 is equipped with a 25 hp pump and well # 2 is equipped with a 15 hp pump. Originally when well # 2 was drilled in 2009 it was equipped with a 25 hp pump. In April 2012 well #1 failed. In May 2012 well # 2 failed. A short time later in May 2012 well #1 and well # 2 was restored. However, when well # 2 was restored it was equipped with a 15 hp pump. At the time of the field exam well # 2 was pumping approximately 43.0 gallons per minute (installed flow meter reading). However the observed rate of diversion does not represent what was historically pumped from well #2. The City of Atomic City provided a pump curve showing the pump capacity for well # 2 is 115 gallons per minute. The pump curve and WIMIS records were used to determine the rate of diversion for this 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>
MUNICIPAL	01/01 to 12/31	0.260 CFS	
<u>Totals:</u>		0.260 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

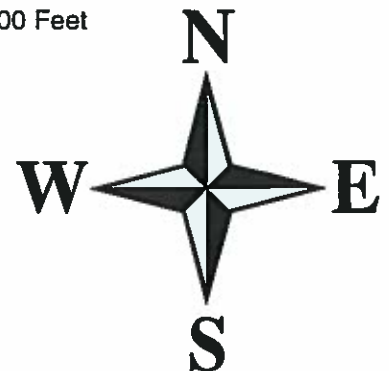
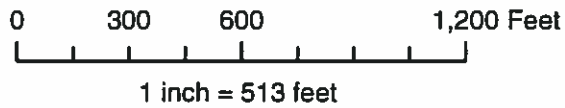
Field Examiner's Name B/ke Jordan Date 11/18/2015

Reviewer _____ Date _____

35-13701



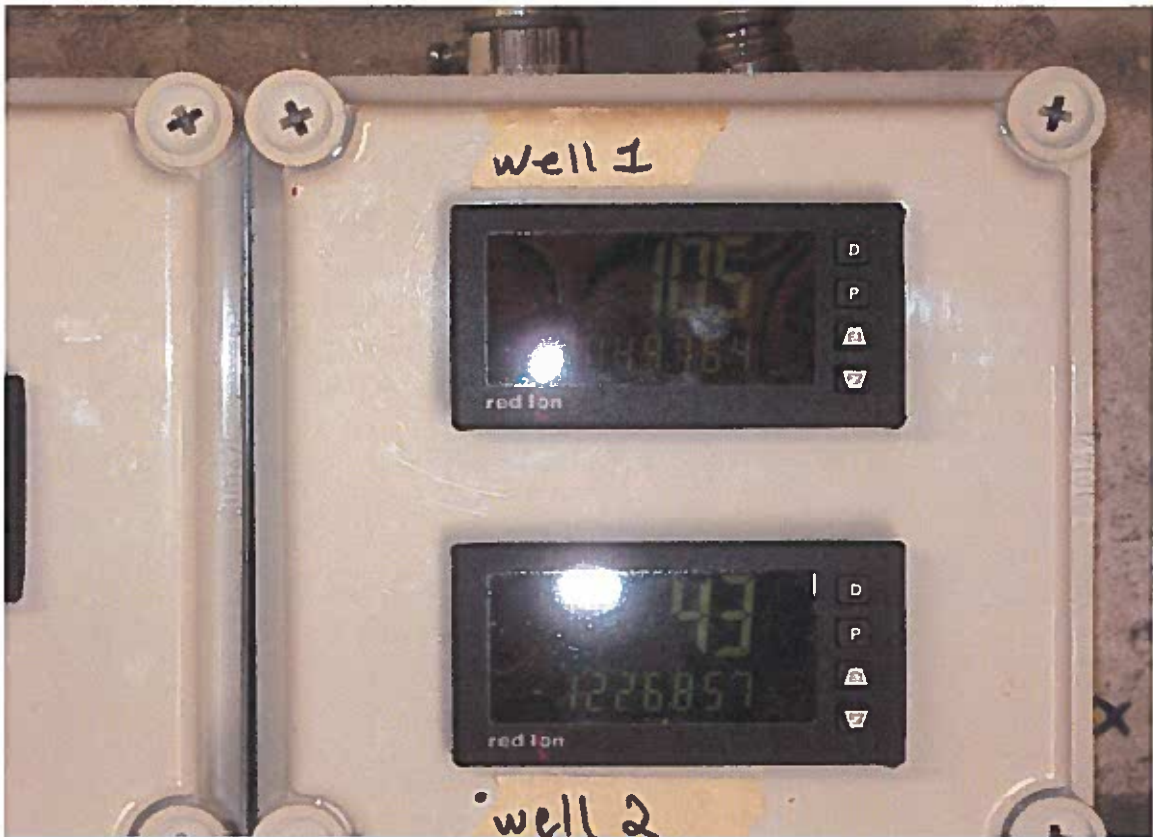
-  Point of Diversion
 Storage Tank 50,000 Gal
 Place of Use
 Township/Range
 Sections
 QQ



Well #1



Well #2



Idaho Department of Water Resources



Quick Search:

[For assistance,](#)
[email](#)
[WMIS Info](#)

Search Method:

WMIS Number:

You are logged in as BJORDAN

[Point Of Diversion](#) [PCC](#) [Flow Meter](#) [Time Clock](#) [Alternate](#) [Contacts](#) [Data Summary](#) [Other](#) [Logout](#)

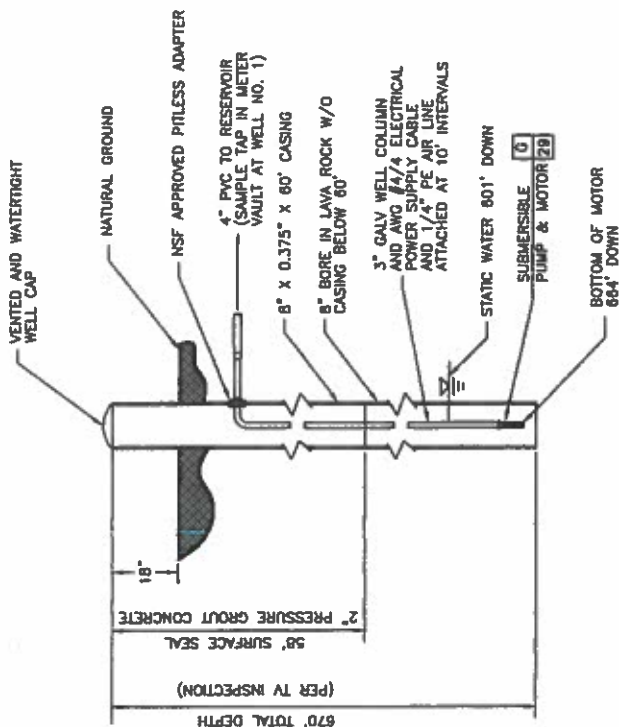
PCC Conditions

You are viewing 1000342, A0016481

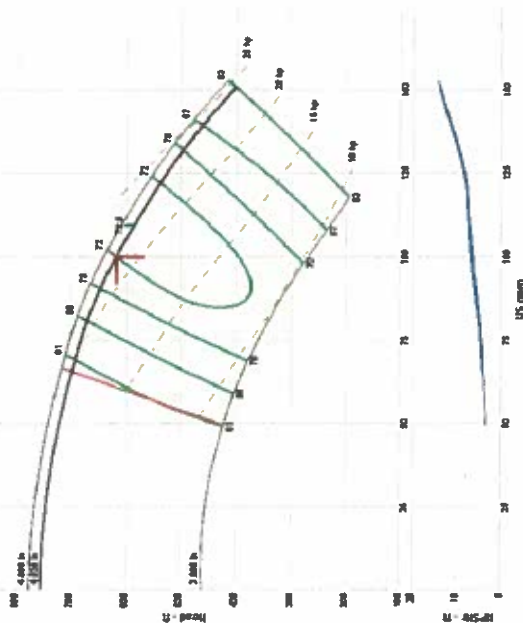
[Click here to insert a new record.](#)

Year: 2014		Date: 8/26/2014 12:00:00 AM		Total PCC: 9082.88		Total Percentage: 100	
Edit	Insert	Delete	# 1	Condition Date: 08/26/2014	ConditionPCC: 9082.88	Percentage: 100	
	New		KW: 9.70 Boost On: No				
	Condition		GPM: 5.8 Description: Small town experiencing a lot of rain, therefore the well is not being used as much. Only one 10 HP pump at the site.				
			PSI:				
			Meter:				
			Utility:	Idaho Power	Serial Number:	02358476	
			Main HP:	10.00	Boost HP:	0.00	
			Pole Number:	01N 31E 03 02	Multiplier:	1.00	
			Manufacturer:	ABB	Disk Constant:	21.60	
Year: 2011		Date: 8/2/2011 12:00:00 AM		Total PCC: 956.62		Total Percentage: 100	
Edit	Insert	Delete	# 1	Condition Date: 08/02/2011	ConditionPCC: 956.62	Percentage: 100	
	New		KW: 22.00 Boost On: No				
	Condition		GPM: 124.9 Description: City well, pumps to a city water resevoir.				
			PSI: 9				
			Meter:				
			Utility:	Idaho Power	Serial Number:	04111349	
			Main HP:	10.00	Boost HP:	0.00	
			Pole Number:	01N 31E 03 02	Multiplier:	1.00	
			Manufacturer:	ABB	Disk Constant:	21.60	





WELL NO. 2 REHABILITATION **B**



PUMP CURVE **G**

PARAMETER	VALUE
MAX. H.P. & MIN. EFF.	25.708
PUMP CAPACITY (GPM)	115
TOTAL HEAD (FT)	115
WELL HEAD (FT)	615
ELECTRICAL CONDUITS (IN/IN)	3 PHASE/480V/60 HZ

WELL PUMP DESIGN PARAMETERS

SUBMERSIBLE PUMP NSF 61 APPROVED
GOULDS TEXAS 316 STAINLESS STEEL
5CLC-14, 25 HP
SEE O&M MANUAL FOR ACTUAL CURVE



RECORD DRAWING

 ENGINEERING • PLANNING • MANAGEMENT	CITY OF ATOMIC CITY, IDAHO	WATER SYSTEM IMPROVEMENTS 2008	PROJECT NO.
		WELL NO. 2 REHABILITATION	SHEET NO. 29

DATE	REVISION	BY	DATE
10/15/08	1	WRS	10/15/08
10/15/08	2	WRS	10/15/08
10/15/08	3	WRS	10/15/08

	Howes Booster pumps	Well Reading
Jan 5, 2010	1051	89744
Jan 11, 2010	1071	123151
Feb 2, 2010	1125	185193
Feb 13, 2010	1144	212972
March 9, 2010	1186	274812
March 26, 2010	110.6	163884
April 26, 2010	26.8	1311
March 9-2011	5779	3482.856
April 12, 2011	5887	3578.504
-13-11 New meter start		3439.273
2-7-11	5718	3406.213
2-9-11	5720	3408.473
3-9-2011	5779	3482.856
4-12-2011	5887	3578.504
5-6-2011	5961	3648.258
6-20-2011	6217	3776.229
6-20-2011 No Date	6263	3826.669
Aug 12-2011	633.7	-3908.042
August 17, 2011	Reset to Zero	
Sept-23-2011	700.7	to- 133.793
Oct 27 2011	1223.7	to- 244.735
Nov 25-2011	1898.1	to- 326.886
Dec 17-2011	2425.2	to- 394.413
January 8, 2012	2918.3	to- 453.024
Feb 28, 2012	3911.2	tot-1 54,487

These meters have never
 worked right DEQ and
 Rural Development
 new this to.

“SEQUENCDE OF EVENTS”

4/13/2012 Well #1 failed

5/3/2012 Well #2 failed

5/7/2012 S&G Elec. and Cushman Well Drilling responded to City emergency

5/7/2012 News coverage of failed Wells aired on Channel 3 and Channel 8 News

5/7/2012 Barry Cazier, of Pump Tech, called and said he was through with Atomic City

5/8/2012 Barry Cazier called with a change of mind and brought out a crew to work on Well #1

5/8/2012 Pump Tech restored Well #1 to working order

5/9/2012 Cushman Well Drilling restored Well #2 to working order

5/16/2012 The required “Boil Order” was lifted

Fish chowder
A quick and tasty meal for those cool spring evenings: B5

Post Register

www.postregister.com

WEDNESDAY

May 9, 2012

Arrested
I.F. man arrested after allegedly hitting man with baseball bat **C1**



Per-cyst-ent
USDA treating eastern Idaho fields for potato pale cyst nematodes **C1**



On to state
Rigby adds a district title to its unlikely run to state championship **B1**



Extra insight

■ Dec. 29, 2010: "Town unhappy about project" tinyurl.com/atomiccitywater

Atomic City is without water

■ Residents have been left high and dry for the past week after a backup water pump failed.

By ZACH KYLE
zkyle@postregister.com

Atomic City residents were in their sixth day without water Tuesday after pumps at the city's two wells failed.

Resident Thomas Roy said the community of about 25 was tired of drawing water from jugs for drinking and basic hygiene.

"Thank God I don't have young children," he said. "It's a bad situation for everybody."

Idaho Falls-based PumpTech installed the pumps in 2009 during the city's \$900,000 project to overhaul its water system.

Pump 1 failed April 11, City Councilman Don Sortor said. The backup, Pump 2 at the city's second well, failed Thursday, shutting down every tap and spigot in town.

PumpTech employees went to Atomic City after the first pump failed and said they'd be in touch with the city on whether the company would repair the well.

City officials said PumpTech did not call back. When the second pump failed nearly a month later, PumpTech

■ Getting the pump system up and running could take a few more days

ATOMIC CITY. Continued on Page A4

ATOMIC CITY

From Page A1

said the warranty had expired, Roy said.

PumpTech employees were working on Pump 1 on Tuesday morning after Roy called news outlets Monday, Roy said.

Efforts to reach PumpTech for comment Tuesday were unsuccessful.

The city has had some water thanks to a tanker truck sent from Snake River Sanitation on Friday. Residents have filled jugs and plastic containers to take care of basic drinking, cooking and hygiene needs.

Assuming PumpTech fixes Pump 1, Councilman Dave Sonnenberg said the water system will remain offline for at least one day, and possibly longer, to pump chlorine through the piping.

"Even as we're on Day 6 without water, it could possibly be eight or nine days and possibly even longer," Sonnenberg said Tuesday.

Sonnenberg said he's responded to make the repairs. He said he'll remain skeptical of the company, however, until the job is done.

The city hired a second contractor to repair Pump 2 when PumpTech didn't respond, he said.

"We'll determine if it was the same problem that caused Pump 2 to go down," Sonnenberg said. "Then there's the question, is PumpTech going to bill us on doing work that wasn't done correctly? We haven't discussed it. We're waiting until the water is back online, then we'll see where we go from there."

PumpTech had promised to get the work done, Sortor said.

"They said they'd stay here all night if they had to," he said.

Sortor, a 25-year resident of Atomic City, said the town hasn't lost water since the late 1980s. He said residents are patient, but only to a point.

"Most of these people are pretty pleasant, but they are being put out," Sortor said. "They are just hoping it's something that will get fixed in a hurry. I'll be glad to hit my own shower and wash my own clothes."