

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-31235

Exam Date: 8/2/2012

1. Current Owner: CITY OF HOMEDALE
PO BOX 757
HOMEDALE ID 83628
(208)337-4641
2. Accompanied by: Larry Bauer, Public Works Supervisor
Phone No: (208)880-2719
Address: 31 W Wyoming, Homedale, Idaho 83628
Relationship to Permit Holder: Certified Public Water System Operator for the City of Homedale
Email: cityofhomedale@cableone.net attention: Larry Bauer

3. **SOURCE** **TRIBUTARY**
GROUND WATER

B. OVERLAP REVIEW

1. **Other water rights with the same place of use:** All of the following water rights are for the same service area boundary for the City of Homedale: 57-7027, 57-7048, 57-7656, 57-10393, 57-11752, 63-9260, 63-31235
2. **Other water rights with the same point of diversion:** None. No other water rights for the City of Homedale include this POD.

C. DIVERSION AND DELIVERY SYSTEM

1. **LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER SE1/4SW1/4 Sec. 34, Twp 04N, Rge 05W, B.M. CANYON County

**The City of Homedale owns the property where the Ustick Well is located (confirmed by tax lot information updated 1/24/2013). The physical address for the Ustick Well is: 26756 Ustick Rd, Homedale, ID 83676*

Method of Determination: Garmin GPS Map 76S, and ArcMap esri and 2009 – 2013 Imagery, plus confirmed by the certified public water system operator

2.

PLACE OF USE: MUNICIPAL

Service Area Boundary for the City of Homedale.

Method of Determination: Garmin GPS Map 76S, and ArcMap esri and 2009 – 2013 Imagery, plus confirmed by the certified public water system operator

3. ☐ **X** Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
☐ **X** Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
☐ **X** Aerial Photo Attached (required for irrigation of 10+ acres).
☐ **X** 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>
E0008326 Ustick Well, submersible	60 Hp	(unknown make/model			8"

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

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>
8" McCrometer flowmeter serial #02-05856-8,						
and 52 psi. Unknown when it was calibrated.						

2. Measurements:

Flow records submitted for 2011 showed the highest individual day in July, and was calculated at 0.66 cfs (see attached sheets)

Theoretical:

$(8.8 \times 60 \text{ Hp} \times 0.7 \text{ eff}) / [30.4 + (52 \text{ psi} \times 2.31)] = 2.45 \text{ cfs}$

RECOMMEND:

Municipal 1/1 – 12/31

0.87 cfs (as measured at the time of the field examination)

E. FLOW CALCULATIONS

Measured Method: None

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: N/A

2. Volume Calculations for Other Uses:

Requested volume records from the City of Homedale for their entire system (showing all wells for one year).

See Administrative Memo licensing #1 (involves case-by case).

G. NARRATIVE/REMARKS/COMMENTS

The City of Homedale municipal system consists of the following (see attached spreadsheet for water right #'s):

Well #1 (Water Tower Well) & 2 (City Well) were abandoned*

Well #3 McWinney Well

Well #4 Morris Well (problems with bacteria, iron and magnesium; considering abandoning; not used for 4 years.*

Well #5 Riverside Well (located east of pump house, in the same area as well # 7; both share the same pump house)

No Well #6 (never has been a well #6)

Well #7 Riverside Well (located directly west of the pump house)

Ustick Well

Peterson Well (west of wells #5 & 7; not legally abandoned, but the pump was pulled 27 years ago).

**With wells #1 and #2 being abandoned, a transfer was filed thus the existence of well #3 McWinney Well and Well #4 Morris Well which is located in basin 63). Suggest filing a transfer on well #4 if they are going to continue not using this well.*

Wells that make up the current City of Homedale municipal system are:

#3 McWinney Well (run this well 1 X/month for about 10 minutes; this is a back-up well)
#5 Riverside Well (run daily during irrigation season)
#7 Riverside Well (run this well 1 X/month for about 10 minutes for sampling purposes; back-up well)
Ustick Well (Main well)

Note:

There are no current flow records for the following wells, but the operator stated what he has measured from each historically: #3McWinney (100 gpm), #5 (250 gpm) and #7 (250 gpm). At the time of the field examination #5 was measured at (140 gpm), and #7 was not running (due to not enough demand to kick it on).

Elementary school, middle and high school use the municipal use only for internal use, since they are on a separate irrigation system. There is no large commercial use in the City of Homedale. Some lots are irrigated with municipal, and some are irrigated by Gem Irrigation District.

Description of the Wells, Storage Tank, and Distribution System that make up the current City of Homedale municipal system:

#3 McWinney Well (back-up well): see 57-7027, 57-10393, and 63-91260

#5 Riverside Well (irrigation well, and back-up well):

Drilled 5/8/1997 by Metzger Well Drilling #93, 215' deep, 5' static, 12" casing extending 31" above ground level, ID Tag #E0008523 (on casing), 20 Hp submersible (unknown make/model/discharge size), that shares the pump house with well #7. The original well #5 was located inside the original pump house before the system was upgraded and incorporated well #5 and #7 into the same pump house (as shown in pictures on file for original field examination for well #5 for water right 57-7656.

#7 Riverside Well (57-11752) back-up well: 57-11752

Drilled 5/27/2009 by Stevens & Sons #153, 250' deep, 13.5' static, 10" casing that extends 19" above ground level, ID Tag #A0018539 (on casing), 20 Hp submersible (unknown make/model/discharge size), that shares the pump house with well #5.

Riverside Pump House for Wells #5 & #7:

Newly built cinderblock pump house that is for both wells #5 and #7. The SCADA controls are located inside the pumphouse. Discharge from well #5 into the pump house is by means of 4" ductile iron pipe that goes through a 4" Ultra Mag flow meter serial #UM20090685 at 140 gpm (at the time of the field examination). Flow can either flush to waste or discharge into the distribution system (mainly used to irrigate the 2.0 acre park), otherwise is a back-up well. Discharge into the pump house is through 4" ductile iron pipe that discharges through a 4" Ultra Mag flow meter serial # UM20090684, then can either co-mingle with well #5 or be flushed to waste. Well #7 is also a back-up well. The system is maintained at 76 psi. At the time of the field examination, there was not enough demand for well #7 to be running. Inside the pump house is sodium hypochlorite, which is routinely added to the domestic municipal system.

Ustick Well (Main Well): 63-31235

ID Tag #E0008326. Drilled 4/15/2002 by Stevens & Sons #153. I has a 12" casing that extends 21" within a concrete slab, the well is 310' deep, 20.4' static, has a 60 Hp submersible pump (unknown make/model), 8" discharge to an 8" McCrometer flowmeter serial #02-05856-8, running at the time of the field examination at 390 gpm (0.87 cfs), and 52 psi. The water level was showing 142'. Sodium Hypochloride (0.02 ppm) is routinely pumped into the system all the time.

Storage Tank:

One storage tank that was installed in 2002. It is 400,000 gallons, has an 8" ductile iron overflow, and 8" line discharges into the tank from the top, and discharges out to the distribution via an 8" line that converts to 12" PVC.

The entire system is controlled by a SCADA program (demand system) that controls when the pumps kick on and controls the level in the storage tank. The controls are at well #7 that maintains 76 psi, and a predetermined level in the tank.

Mains throughout the City of Homedale:

6", 8" and some 12" PVC

Number of connections on the City of Homedale, at the time of the field examination: 864

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	0.87 CFS	
<u>Totals:</u>		0.87 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 Andy Hemminger Date: 4/13/2014

Basin Sequen	Process	Basis	Status	Draf Right	ID	Priority	Date	Div.	Rate	Source List	Water Use	Current Owner	Total Acc Volume	Well #	Purpose	Comments:
57	7027	Water Right	Decre	Active	N	357128	1/7/1969		0.670	GROUND W MUNICIPALITY OF HOMEDALE				#1 water tower, #2 city well	#3 McWhinney	#1 & #2 were abandoned (need to file transfer)
57	10393	Water Right	Decre	Active	N	357254	1/1/1940		0.890	GROUND W MUNICIPALITY OF HOMEDALE				#1 water tower, #2 city well	#3 McWhinney	#1 & #2 were abandoned (need to file transfer)
63	9260	Water Right	Decre	Active	N	575363	7/3/1979		1.000	GROUND W MUNICIPALITY OF HOMEDALE				#1 water tower, #2 city well	#4 Morris(shapes not linked to #3)	#1 & #2 were abandoned (need to file transfer)
2.56 cfs										conditions say diverted through same PODs						
57	7048	Water Right	Decre	Active	N	219264	4/16/1971		0.040	GROUND W IRRIGATION CITY OF HOMEDALE		2.0	9.0	A0004209	Well #5 irrigation well	Gem Irrigation District is also used for irrigation
57	7656	Water Right	Licent	Active	N	16277	1/16/1998		0.240	GROUND W MUNICIPALITY OF HOMEDALE				A0004209	Well #5 for increased rate	Changed use after approval from DEQ for municipal use
57	11752	Water Right	Licent	Active	Y	670267	9/15/2008		1.140	GROUND W MUNICIPALITY OF HOMEDALE				A0018539	Well #7	located within the same building as well #5 (two different casings)
63	31235	Water Right	Licent	Active	Y	656937	3/31/2001		1.670	GROUND W MUNICIPALITY OF HOMEDALE				E0008326	Ustick Well	Main well

**Gem Irrigation District Water irrigated the bulk of the town and all other parks and lawns. Well #5 when used for irrigation is run by the city for flood and pressurized irrigation systems within individual yards.

NOTES:

#1 & 2 Wells (abandoned)
 #3 McWhinney Well (back-up well)
 #5 Riverside Well (irrigation and back-up well)
 #4 Morris Well *bacte, iron, mag., problems, considering abandoning*
 Well #6: There never has been a well #6.
 #7 Riverside Well (back-up well)
 Ustick Well (main well)
 Peterson well: west of well #5 & 7 (not legally abandoned; pump pulled more than 27 years ago (high hydrogen sulfide)
 McKinney Well (SW part of the city)

Active wells that are used on the system: Ustick (main), #3 McWhinney (run 1X/month approx. 10 min), #5 (runs daily for irrigation), #7 (runs 1X/month approx. 10 minutes for sampling purposes)

57-11752 POD: Well #7 A0018539
20 Hp submersible (unknown make/model)
10" casing extending 19" above ground level
unknown size discharge

63-31235 POD: Ustick Well (property owned by city)
discharging to 12" main to the east,
then running southwest to the
City of Homedale. E0008326

57-7048 Adj. location for 57-7048 POD (well #5)
this is an incorrect location

POD 63-9260, but this may be really be for the Morris Well
where a new well was drilled through a "transfer," ①
in connection with replacing abandoned wells #1 & 2, and
the POD location is incorrect.

POD: Morris Well (property owned by city)
12" discharge to 12" main that goes
under the bridge to City of Homedale,
discharging to 8" and some 12"
PVC mains

Riverside Pump house for wells # 5 and 7

(3) abandoned City Hall wells

57-7027 and 57-10393 POD McWhinney Well #3
(involved in a transfer, when wells #1 & 2 were
abandoned)

POD: Well #5 (Garmin GPS Map 76S)
Location found at time of field examination.
12" casing extending 31" above ground level
ID Tag# E0008523
20 Hp submersible (unknown make/model)

POU: Service Area Boundary for the following
63-31235, 57-7027, 57-10393, 63-9260, 57-7048,
57-7656, 57-11752,



63-31235 POD: Ustick Well

POU: Service Area Boundary for the following
63-31235, 57-7027, 57-10393, 63-9260, 57-7048,
57-7656, 57-11752,

Source: Esri, DigitalGlobe, GeoEye, iSat, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

12-21725



SCADA
Controller

Ustick
Well
pump
house

08/02/2012



08/02/2012

63 - 31235

S. Hernerway



POD:
 Ustick
 Well
 E0008326
 60Hp
 (unknown
 make,
 model
 Submersible
 pump)
 12" casing
 310' deep
 20.4' sta

08/02/2012



6"
 flush
 to
 waste
 to pit
 McComete
 8"
 flow meter
 serial#
 02-05856
 08

08/02/2012

63-31235

S. Hernerway



ABB
S/N
209130234
209130234

08/02/2012

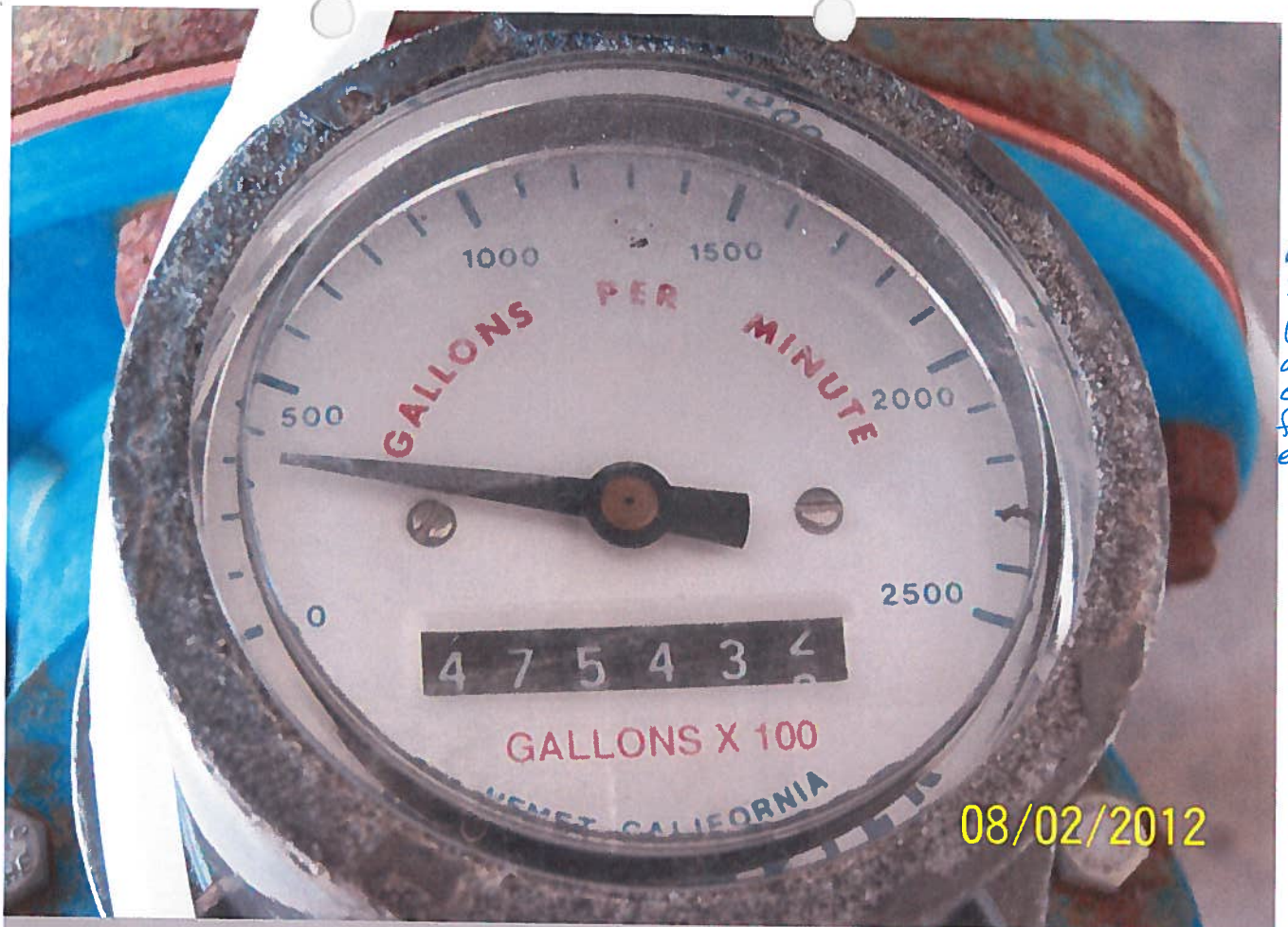


McCromet
8"
flow
meter

08/02/2012

63-31235

S. HERNANDEZ



average
390 gpm
(0.87 cfs)
at time
of
field
exam



52
psi

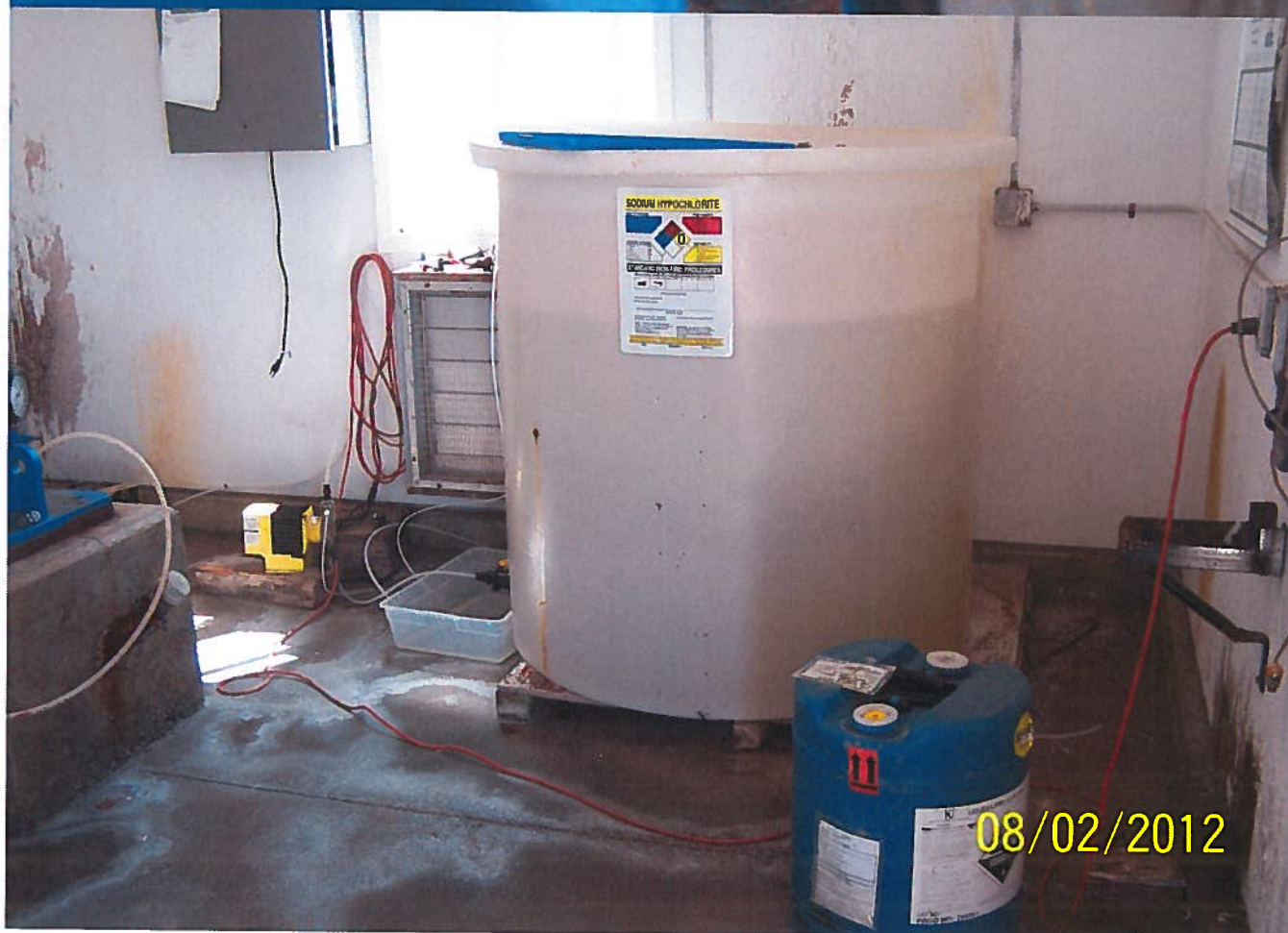
63-31235

S. HERNIMAN



142'
Water
level
gauge

08/02/2012

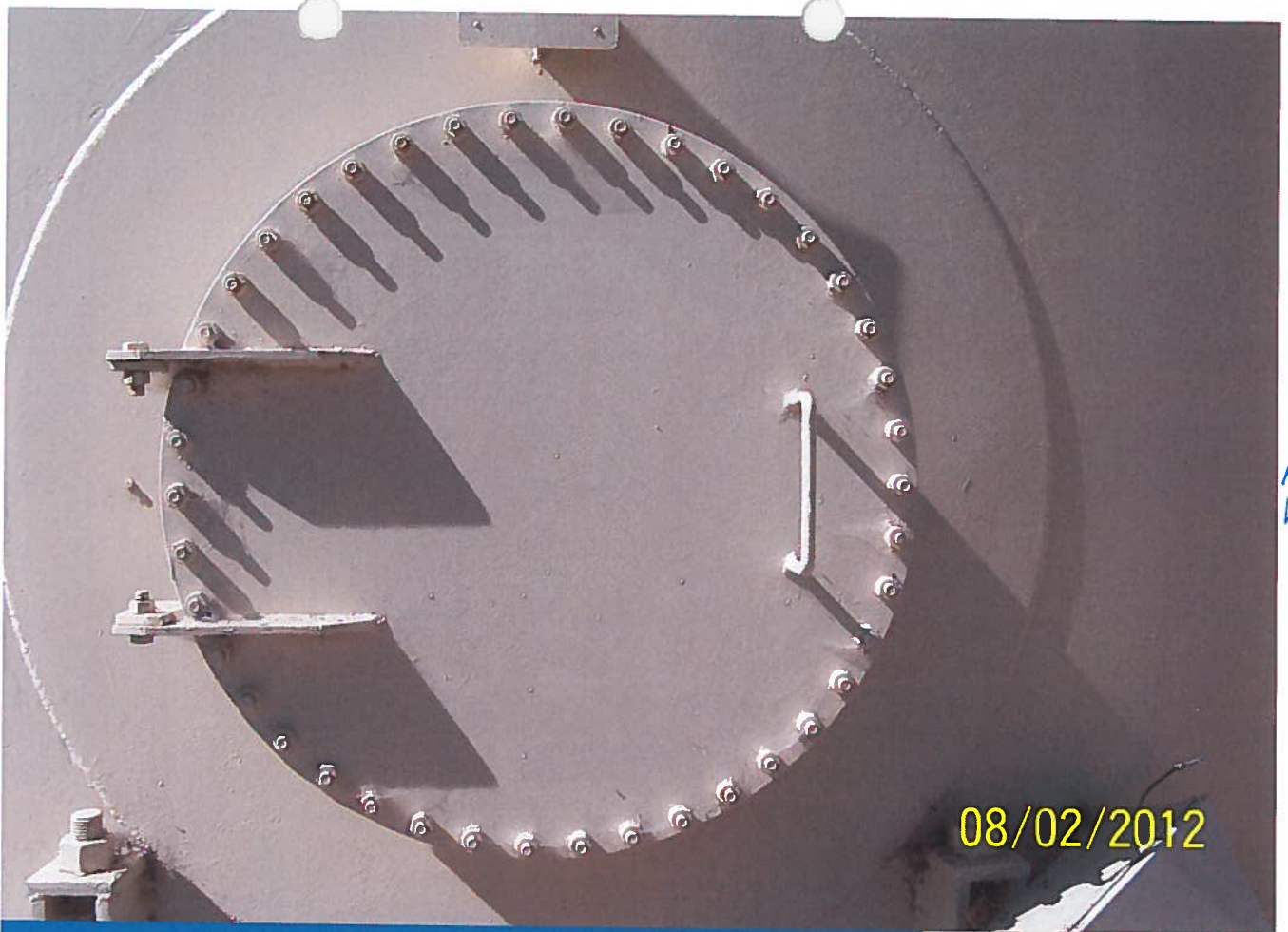


pumps
0.02 ppm
sodium
hypochlorite
into the
system
all the
time

08/02/2012

63-31235

S. Hemenway



Access
hatch

08/02/2012



8"
ductile
iron
overflow

08/02/2012

63-31235

S. Hemerway



08/02/2012

8" flow enters tank from top, + discharge at bottom with 8" then to 12" main

installed 2002, 400,000 gallon storage tank



SCADA system controls pump + level in storage tank

08/02/2012

63-31235

S. Hemerway

1/ stick 1/2011

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. *gpr*

[illegible]

#1 Water Tower Unit

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>CITY OF HOMEDALE</u> Address <u>CITY HALL 31 W Wyoming Ave</u> <u>Homedale, Idaho 83628</u> Owner's Permit No. <u>57-89-WU03 57-89-W-0003-000</u>	7. WATER LEVEL Static water level <u>20</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 _____ of Quality _____ Describe artesian or temperature zones below: _____																																																				
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Well diameter increase ☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)	8. WELL TEST DATA ☐ Pump ☐ Bailor ☒ Air ☐ Other _____ <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Discharge G.P.M.</th> <th>Pumping Level</th> <th>Hours Pumped</th> </tr> <tr> <td>200</td> <td>250</td> <td>4</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	Discharge G.P.M.	Pumping Level	Hours Pumped	200	250	4																																														
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3. PROPOSED USE ☐ Domestic ☐ Irrigation ☐ Test ☒ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection ☐ Other _____ (specify type)	9. LITHOLOGIC LOG 022788 <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Bore 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>16</td> <td>0</td> <td>18</td> <td>Gravel</td> <td>/</td> </tr> <tr> <td>16</td> <td>18</td> <td>22</td> <td>gravel & sand</td> <td>/</td> </tr> <tr> <td>12</td> <td>22</td> <td>60</td> <td>blue clay & hard dry</td> <td>/</td> </tr> <tr> <td>12</td> <td>60</td> <td>120</td> <td>shale-blue & sandstone</td> <td>/</td> </tr> <tr> <td>12</td> <td>120</td> <td>135</td> <td>shale & sand seams</td> <td>/</td> </tr> <tr> <td>12</td> <td>135</td> <td>157</td> <td>shale</td> <td>/</td> </tr> <tr> <td>12</td> <td>157</td> <td>165</td> <td>shale & sand seams</td> <td>/</td> </tr> <tr> <td>12</td> <td>165</td> <td>310</td> <td>shale & more sand seams</td> <td>/</td> </tr> <tr> <td>12</td> <td>310</td> <td>360</td> <td>sand & sandstone in seams</td> <td>/</td> </tr> </tbody> </table>	Bore Diam.	Depth		Material	Water Yes/No	From	To	16	0	18	Gravel	/	16	18	22	gravel & sand	/	12	22	60	blue clay & hard dry	/	12	60	120	shale-blue & sandstone	/	12	120	135	shale & sand seams	/	12	135	157	shale	/	12	157	165	shale & sand seams	/	12	165	310	shale & more sand seams	/	12	310	360	sand & sandstone in seams	/
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4. METHOD DRILLED ☐ Rotary ☒ Air ☐ Hydraulic ☐ Reverse rotary ☒ Cable ☐ Dug ☐ Other _____	10. Work started <u>10-2-89</u> finished <u>12-2-89</u>																																																				
5. WELL CONSTRUCTION Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____ <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Thickness</th> <th>Diameter</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>.375 inches</td> <td>12 inches</td> <td>1</td> <td>feet 36</td> </tr> <tr> <td>.250 inches</td> <td>8 inches</td> <td>1.5</td> <td>feet 292</td> </tr> <tr> <td>.250 inches</td> <td>8 inches</td> <td>333</td> <td>feet 343</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> Was casing drive shoe used? ☒ Yes ☐ No Was a packer or seal used? ☐ Yes ☒ No Perforated? ☐ Yes ☒ No How perforated? ☐ Factory ☐ Knife ☐ Torch ☐ Gun Size of perforation _____ inches by _____ inches <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Number</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> Well screen installed? ☒ Yes ☐ No Manufacturer's name <u>Cook</u> Type <u>304SS</u> Model No. <u>PS8</u> Diameter <u>8</u> Slot size <u>20</u> Set from <u>292</u> feet to <u>333</u> feet Diameter _____ Slot size _____ Set from _____ feet to _____ feet Gravel packed? ☒ Yes ☐ No ☐ Size of gravel <u>4-6 mesh</u> Placed from <u>2</u> feet to <u>343</u> feet Surface seal depth <u>22</u> Material used in seal: ☐ Cement grout ☒ Bentonite ☒ Puddling clay ☐ _____ 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 _____	Thickness	Diameter	From	To	.375 inches	12 inches	1	feet 36	.250 inches	8 inches	1.5	feet 292	.250 inches	8 inches	333	feet 343					Number	From	To										11. DRILLERS CERTIFICATION OL I/We certify that all minimum well construction standards were complied with at the time the rig was removed. BILL DUTY DRILLING CO., INC. Firm No. <u>42</u> 106 Calloway Address <u>Caldwell, Idaho 83605</u> Date _____ Signed by (Firm Official) _____ and _____ (Operator) _____																				
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Number	From	To																																																			
6. LOCATION OF WELL Sketch map location must agree with written location. Subdivision Name _____ Lot No. _____ Block No. _____ County <u>OWYHEE (CITY OF HOMEDALE)</u> N ☒ E ☐ W ☐ S ☐ R ☐ Sec. <u>9</u> T. <u>3</u> S ☐ R ☐ W ☒	USE ADDITIONAL SHEETS IF NECESSARY - FORWARD THE WHITE COPY TO THE DEPARTMENT																																																				

abandoned

#2
"City Well"

Date 4-16-11
Date _____
e required.

#3 McWinnery well

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>City of Homedale</u> Address <u>City Hall Homedale, ID</u> Owner's Permit No. _____		7. WATER LEVEL Static water level <u>4</u> feet below land surface Flowing? ☐ Yes ☒ No G.P.M. flow _____ Temperature _____ ° F. Quality _____ Artesian closed-in pressure _____ p.s.i. Controlled by ☐ Valve ☐ Cap ☐ Plug																																																																																																																																																																															
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe method of abandoning) _____		8. WELL TEST DATA ☒ Pump ☐ Baller ☐ Other Discharge G.P.M. <u>480</u> Draw Down <u>280</u> Hours Pumped <u>24</u>																																																																																																																																																																															
3. PROPOSED USE ☐ Domestic ☐ Irrigation ☐ Test ☐ Other (specify type) _____ ☒ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection		9. LITHOLOGIC LOG 099938 Hole Diam. Depth From To Material Water Yes No																																																																																																																																																																															
4. METHOD DRILLED ☒ Cable ☐ Rotary ☐ Dug ☐ Other		<table border="1"><tr><td>16</td><td>0</td><td>26</td><td>Blow Sand</td><td></td><td>x</td></tr><tr><td>16</td><td>26</td><td>31</td><td>sand and gravel</td><td>x</td><td></td></tr><tr><td>16</td><td>31</td><td>34</td><td>gravel</td><td>x</td><td></td></tr><tr><td>16</td><td>34</td><td>40</td><td>brown sandy clay</td><td></td><td>x</td></tr><tr><td>16</td><td>40</td><td>45</td><td>blue sandy clay</td><td></td><td>x</td></tr><tr><td>16</td><td>45</td><td>49</td><td>fine sand, gravel, clay</td><td>x</td><td></td></tr><tr><td>16</td><td>49</td><td>61</td><td>brown sandy clay</td><td></td><td>x</td></tr><tr><td>16</td><td>61</td><td>85</td><td>blue sandy clay</td><td></td><td>x</td></tr><tr><td>16</td><td>85</td><td>151</td><td>blue clay</td><td></td><td>x</td></tr><tr><td>16</td><td>151</td><td>156</td><td>sandy blue clay</td><td>x</td><td></td></tr><tr><td>16</td><td>156</td><td>161</td><td>sticky blue clay</td><td></td><td>x</td></tr><tr><td>16</td><td>161</td><td>176</td><td>sandy blue clay</td><td></td><td>x</td></tr><tr><td>16</td><td>176</td><td>226</td><td>blue clay</td><td></td><td>x</td></tr><tr><td>16</td><td>226</td><td>231</td><td>sandy blue clay</td><td></td><td>x</td></tr><tr><td>16</td><td>231</td><td>356</td><td>blue clay</td><td></td><td>x</td></tr><tr><td>16</td><td>356</td><td>361</td><td>sandy blue clay</td><td></td><td>x</td></tr><tr><td>16</td><td>361</td><td>393</td><td>blue clay</td><td></td><td>x</td></tr><tr><td>16</td><td>393</td><td>421</td><td>sandy blue clay (soft)</td><td>x</td><td></td></tr><tr><td>16</td><td>421</td><td>425</td><td>white clay, blue shale</td><td>x</td><td></td></tr><tr><td>16</td><td>425</td><td>426</td><td>sandstone, gravel</td><td>x</td><td></td></tr><tr><td>16</td><td>426</td><td>445</td><td>sandy blue clay (soft)</td><td>x</td><td></td></tr><tr><td>16</td><td>445</td><td>456</td><td>sticky blue clay</td><td></td><td>x</td></tr><tr><td>16</td><td>456</td><td>458</td><td>sandstone, shale, sand</td><td>x</td><td></td></tr><tr><td>16</td><td>458</td><td>460</td><td>sticky blue clay</td><td></td><td>x</td></tr><tr><td>16</td><td>460</td><td>492</td><td>Sandy blue clay (soft)</td><td>x</td><td></td></tr><tr><td>16</td><td>492</td><td>501</td><td>blue clay</td><td></td><td>x</td></tr><tr><td>16</td><td>501</td><td>524</td><td>sandy blue clay</td><td></td><td>x</td></tr><tr><td>16</td><td>524</td><td>533</td><td>sand and white clay</td><td>x</td><td></td></tr><tr><td>12</td><td>533</td><td></td><td>blue clay</td><td></td><td>x</td></tr></table>		16	0	26	Blow Sand		x	16	26	31	sand and gravel	x		16	31	34	gravel	x		16	34	40	brown sandy clay		x	16	40	45	blue sandy clay		x	16	45	49	fine sand, gravel, clay	x		16	49	61	brown sandy clay		x	16	61	85	blue sandy clay		x	16	85	151	blue clay		x	16	151	156	sandy blue clay	x		16	156	161	sticky blue clay		x	16	161	176	sandy blue clay		x	16	176	226	blue clay		x	16	226	231	sandy blue clay		x	16	231	356	blue clay		x	16	356	361	sandy blue clay		x	16	361	393	blue clay		x	16	393	421	sandy blue clay (soft)	x		16	421	425	white clay, blue shale	x		16	425	426	sandstone, gravel	x		16	426	445	sandy blue clay (soft)	x		16	445	456	sticky blue clay		x	16	456	458	sandstone, shale, sand	x		16	458	460	sticky blue clay		x	16	460	492	Sandy blue clay (soft)	x		16	492	501	blue clay		x	16	501	524	sandy blue clay		x	16	524	533	sand and white clay	x		12	533		blue clay		x
16	0	26	Blow Sand		x																																																																																																																																																																												
16	26	31	sand and gravel	x																																																																																																																																																																													
16	31	34	gravel	x																																																																																																																																																																													
16	34	40	brown sandy clay		x																																																																																																																																																																												
16	40	45	blue sandy clay		x																																																																																																																																																																												
16	45	49	fine sand, gravel, clay	x																																																																																																																																																																													
16	49	61	brown sandy clay		x																																																																																																																																																																												
16	61	85	blue sandy clay		x																																																																																																																																																																												
16	85	151	blue clay		x																																																																																																																																																																												
16	151	156	sandy blue clay	x																																																																																																																																																																													
16	156	161	sticky blue clay		x																																																																																																																																																																												
16	161	176	sandy blue clay		x																																																																																																																																																																												
16	176	226	blue clay		x																																																																																																																																																																												
16	226	231	sandy blue clay		x																																																																																																																																																																												
16	231	356	blue clay		x																																																																																																																																																																												
16	356	361	sandy blue clay		x																																																																																																																																																																												
16	361	393	blue clay		x																																																																																																																																																																												
16	393	421	sandy blue clay (soft)	x																																																																																																																																																																													
16	421	425	white clay, blue shale	x																																																																																																																																																																													
16	425	426	sandstone, gravel	x																																																																																																																																																																													
16	426	445	sandy blue clay (soft)	x																																																																																																																																																																													
16	445	456	sticky blue clay		x																																																																																																																																																																												
16	456	458	sandstone, shale, sand	x																																																																																																																																																																													
16	458	460	sticky blue clay		x																																																																																																																																																																												
16	460	492	Sandy blue clay (soft)	x																																																																																																																																																																													
16	492	501	blue clay		x																																																																																																																																																																												
16	501	524	sandy blue clay		x																																																																																																																																																																												
16	524	533	sand and white clay	x																																																																																																																																																																													
12	533		blue clay		x																																																																																																																																																																												
5. WELL CONSTRUCTION Diameter of hole <u>12</u> inches Total depth <u>555</u> feet Casing schedule: ☒ Steel ☐ Concrete Thickness Diameter From To <u>.375</u> inches <u>12</u> inches + <u>2</u> feet <u>453</u> feet <u>.322</u> inches <u>8</u> inches <u>416</u> feet <u>456</u> feet <u>.322</u> inches <u>8</u> inches <u>458</u> feet <u>478</u> feet <u>.322</u> inches <u>8</u> inches <u>482</u> feet <u>508</u> feet <u>.322</u> inches <u>8</u> inches <u>513</u> feet <u>524</u> 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. <u>304</u> Diameter <u>8</u> Slot size <u>20</u> Set from <u>456</u> feet to <u>458</u> feet Diameter <u>8</u> Slot size <u>20</u> Set from <u>478</u> feet to <u>482</u> feet Gravel packed? ☒ Yes ☐ No Size of gravel <u>#16</u> Placed from <u>418</u> feet to <u>555</u> feet Surface seal depth <u>100</u> Material used in seal ☒ Cement grout ☐ Pudding clay ☐ Well cuttings Sealing procedure used ☐ Shurry pit ☒ Temporary surface casing ☒ Overbore to seal depth		10. WORK STARTED Work started <u>6/20/79</u> finished <u>8/5/79</u> 11. DRILLERS CERTIFICATION Firm Name <u>Engleman Well Drilling</u> Firm No. _____ Address <u>Rt. 3 Box 3397A</u> Date <u>9/25/79</u> Signed by (Firm Official) <u>Ray Engleman</u> and <u>Tony Engleman</u> (Operator)																																																																																																																																																																															
6. LOCATION OF WELL Sketch map location must agree with written location. N W E Subdivision Name _____ Lot No. _____ Block No. _____ County <u>Canyon</u> S.W. N.E. S.E. W.W. Sec. <u># 3 T. 3 N. N/S. R. 5 W. E/W</u>		RECEIVED JUN 19 1980 Department of Water Resources Western Regional Office																																																																																																																																																																															

USE ADDITIONAL SHEETS IF NECESSARY

FORWARD THE WHITE COPY TO THE DEPARTMENT

Back
iron
may
problem
consider
about

#4
Tom Morris
well

WELL DRILLER'S REPORT

State law requires that this report be filed with the State Reclamation Engineer within 30 days after completion or abandonment of the well.

[illegible]

well
#5

(2)

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.

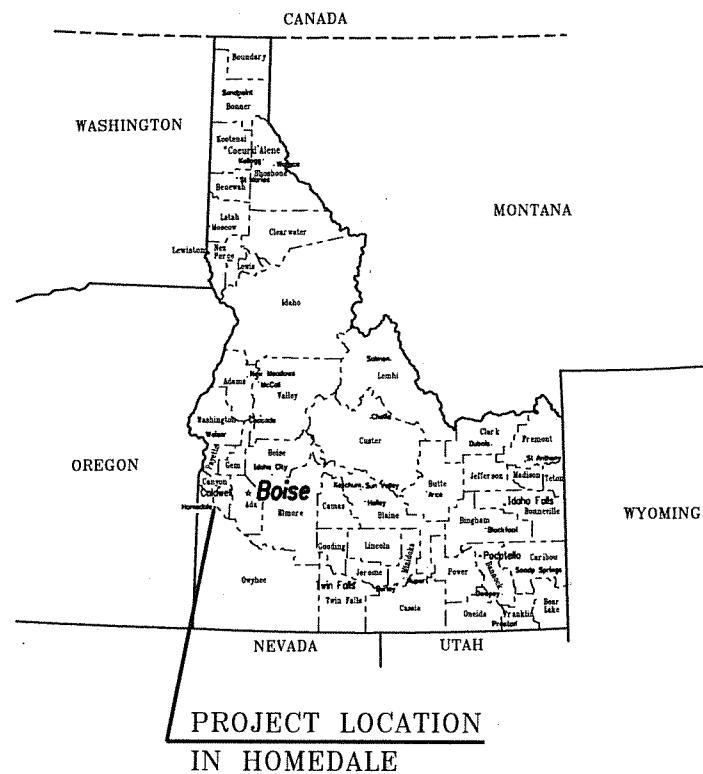
[illegible]

USE ADDITIONAL SHEETS IF NECESSARY

FORWARD THE WHITE COPY TO THE DEPARTMENT

well #5

AREA MAP



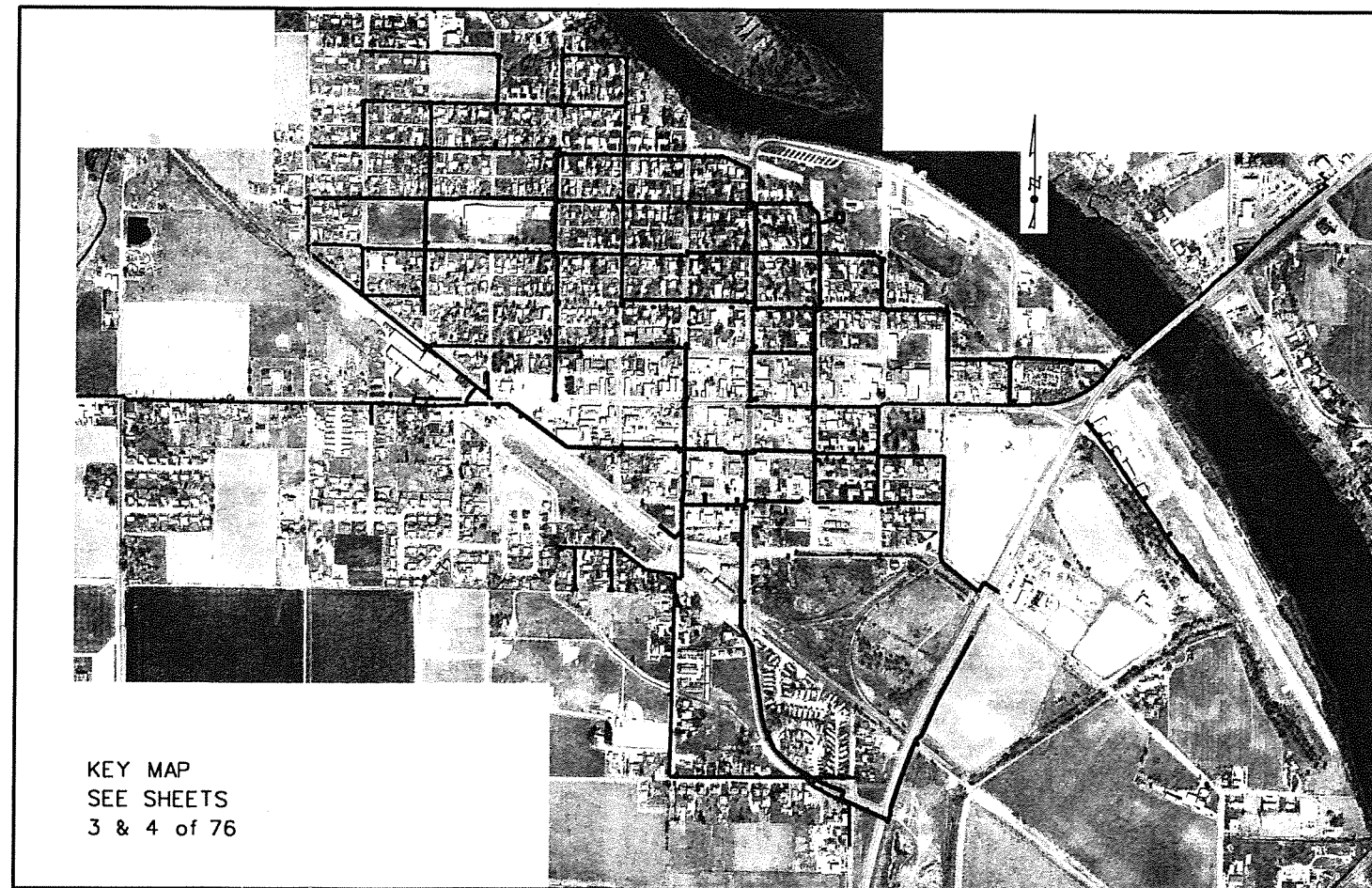
CITY OF HOMEDALE

MAYOR _____ HAROLD WILSON
 COUNCIL MEMBER _____ TIM DOWNING
 COUNCIL MEMBER _____ DAVID DOWNUM
 COUNCIL MEMBER _____ ENO HENDERSON
 COUNCIL MEMBER _____ AARON TINES
 PUBLIC WORKS SUPERVISOR _____ LARRY BAUER

CITY OF HOMEDALE

WATER FACILITY MASTER MAP

SEPTEMBER, 2008



VICINITY MAP SCALE
500 0 1000
FEET

SHEET INDEX

GENERAL:
 COVER SHEET _____
 GENERAL NOTES _____
 KEY MAP _____
 PLAN SHEET _____
 DETAIL SHEETS _____

DIG LINE - (1-800-342-1585)

WATER LINE FACILITY MASTER MAP

DESIGNED	A. KIMMEL	
DESIGN CHK'D.	F. DSTLER	
DETAILED	A. KIMMEL	
DRAWING CHK'D.	A. KIMMEL	DRAWING DATE: SEPTEMBER, 2008

CITY OF HOMEDALE



PROJECT ENGINEERING CONSULTANTS, LTD.
 5700 East Franklin Road, Suite 170
 Nampa, Idaho 83687-9230
 PHONE (208) 466-7190

COUNTY	OWYHEE, IDAHO
	cover.dgn
SHEET	1 of 76

COMPILED FROM THE BEST AVAILABLE
 SOURCES. DATA HAS NOT BEEN FIELD
 VERIFIED. MEANT FOR USE AS A
 FACILITY MAP ONLY.
 NOT FOR CONSTRUCTION

125 Hydrant SCANNED
 MAR 23 2015

SYSTEM USAGE REPORT
CITY OF HOMEDALE

MONTH: June 2012

WELL SYSTEM:

DATE	METER READING GALLONS	DAILY USAGE GALLONS	RECORDED BY
1			
2			
3			
4	31408800	334700	
5	31743500	103900	
6	31847400	282200	
7	32129600	151800	
8	32281400	641100	
9			
10			
11	32522500	334000	
12	33256500	~~517600~~	
13	33432600	234700	
14	33667300	287100	
15	33954400	390300	
16			
17			
18	34744700	216500	
19	34961200	117400	
20	35178600	269000	
21	35447600	322000	
22	35769600	748100	
23			
24			
25	36527700	267800	
26	36795500	275100	
27	37070600	288600	
28	37359200	260800	
29	37620000	347198	
30			
31			
MONTHLY TOTAL		6,053,490	0.30 cfs/day 31 day average

SYSTEM USAGE REPORT
CITY OF HOMEDALE

MONTH: May 12

WELL SYSTEM:

DATE	METER READING GALLONS	DAILY USAGE GALLONS	RECORDED BY
1	23595300	196300	
2	23791600	928800	
3			
4			
5			
6			
7	24720400	419300	
8			
9	25139700	265700	
10	25405400	~~205800~~ 193400	
11	25598800	~~572200~~	
12			
13			
14	26321000	272900	
15	26593900	221000	
16	26814900	371800	
17	27186700	106300	
18	27293400	744400	
19			
20			
21	28037800	482000	
22			
23	28519800	271500	
24	28791300	209800	
25	29001100	841200	
26			
27			
28			
29	29842300	243700	
30	30086000	254300	
31	30340300	1668500	
MONTHLY TOTAL		7,813,105	

SYSTEM USAGE REPORT

CITY OF HOMEDALE

MONTH: April 12

WELL SYSTEM: _____

DATE	METER READING GALLONS	DAILY USAGE GALLONS	RECORDED BY
1			
2	17908800	274400	
3	18183200	107700	
4	18290900	↑	
5		↓	
6	18635400	~~287800~~	
7			
8			
9			
10	19523200	0507600	
11			
12			
13	20030800	575200	
14			
15			
16	20666000	740500	
17			
18			
19			
20	21346500	617800	
21			
22			
23	21964300	658800	
24			
25			
26	22623100	762700	
27			
28			
29			
30	23385800	209700	
31			
MONTHLY TOTAL		5,342,200	

SYSTEM USAGE REPORT
CITY OF HOMEDALE

MONTH: March 2012

WELL SYSTEM:

DATE	METER READING GALLONS	DAILY USAGE GALLONS	RECORDED BY
1	12318300	167900	
2	12486200	529800	
3			
4			
5	13016000	171600	
6	13187600		
7		546600	
8			
9	13734200	497100	
10			
11			
12	14231300	173200	
13	14404500	210700	
14	14615200	173000	
15	14788200	129600	
16	14917800	558600	
17			
18			
19	15476400	194300	
20	15670700	522800	
21			
22			
23	16193500	629400	
24			
25			
26	16721900	29100	
27	16851000	199700	
28	17050700	158500	
29	17211200	253800	
30	17465000	443800	
31			
MONTHLY TOTAL		5342200	

6068861

202295

SYSTEM USAGE REPORT
CITY OF HOMEDALE

MONTH: Feb 2012

WELL SYSTEM:

DATE	METER READING GALLONS	DAILY USAGE GALLONS	RECORDED BY
1	7376500	195200	
2	7570700	156300	
3	7728000	517700	
4			
5			
6	8245700	345400	
7			
8	8587700	395300	
9			
10	8982400	635900	
11			
12			
13	9434600	559800	
14	9618300		
15	9760500		
16	9994400	790300	
17			
18			
19			
20			
21	10784700	194800	
22	10979500	322500	
23			
24	11302000	524900	
25			
26			
27	11826900	153800	
28	11980700	186200	
29	12166900		
30			
31			
MONTHLY TOTAL		4978100	

SYSTEM USAGE REPORT
CITY OF HOMEDALE

MONTH: Jan 2012

WELL SYSTEM:

DATE	METER READING GALLONS	DAILY USAGE GALLONS	RECORDED BY
1			
2			
3	22305 00	334700	
4	~~2515200~~		
5	2565200	302800	
6			
7			
8			
9	3268000	141200	
10	3419000	216600	
11	3635800	16800	
12	3752600	~~894300~~	189800
13	3942400	731200	
14			
15			
16			
17	4673600	402000	
18			
19	5075600	123900	
20	5199500	542300	
21			
22			
23	5741800	191100	
24	5932900	158900	
25	060818 00	~~581300~~ 181300	
26	62631 00	763600	
27			
28			
29			
30	7026700	162600	
31	7189300	187200	
MONTHLY TOTAL		4,797,200	

SYSTEM USAGE REPORT

CITY OF HOMEDALE

MONTH: Dec 2011

WELL SYSTEM: _____

DATE	METER READING GALLONS	DAILY USAGE GALLONS	RECORDED BY
1			
2			
3			
4			
5	47226900	221400	
6	97443700	114300	
7	97712600	387100	
8			
9	97949700	496100	
10			
11			
12	98445800	720100	
13			
14	~~9~~		
15			
16	99165800	500600	
17			
18			
19	99666500	169300	
20	99835800	327200	
21			
22	00163000	852400	
23			
24			
25			
26			
27	1015400	352100	
28			
29	1368500	224300	
30	1592800	637700	
31			
MONTHLY TOTAL		5003600	

X SYSTEM USAGE REPORT

SYSTEM USAGE REPORT

CITY OF HOMEDALE

MONTH: Nov 11

WELL SYSTEM: _____

DATE	METER READING GALLONS	DAILY USAGE GALLONS	RECORDED BY
1			
2	91597100	868000	
3			
4			
5			
6			
7	92465100	128500	
8	92653600	1027700	
9			
10			
11			
12			
13			
14	93681300	366500	
15			
16	94047800	118200	
17	94166000	701900	
18			
19			
20			
21	94867900	1,179,900	
22			
23			
24			
25			
26			
27			
28	96047800	1,179,100	
29			
30			
31			
MONTHLY TOTAL		5629800	

SYSTEM USAGE REPORT
CITY OF HOMEDALE

MONTH: Oct 11

WELL SYSTEM:

DATE	METER READING GALLONS	DAILY USAGE GALLONS	RECORDED BY
1			
2			
3	85958800	2045300	
4	8628800		
5			
6	8660700		
7	8680800		
8			
9			
10	87431900		
11			
12	87807300		
13	88604100	~~88604100~~ 708800	
14			
15			
16			
17	88712900	186400	
18	88712900	365700	
19			
20	89265000	184700	
21	89449700	567100	
22			
23			
24	90016800	527600	
25			
26			
27	90544400	153100	
28	90697500	899600	
29			
30			
31			
NOV 2	91597100		
MONTHLY TOTAL		5638300	

SYSTEM USAGE REPORT

CITY OF HOMEDALE

MONTH: SEP 11

WELL SYSTEM: _____

DATE	METER READING GALLONS	DAILY USAGE GALLONS	RECORDED BY
1			
2	78837200	1056900	
3			
4			
5			
6	79894100	146400	
7	80040900	396500	
8	80437000	743600	
9			
10			
11			
12	81286600	501400	
13			
14	81782000	276100	
15	82053100	821100	
16			
17			
18			
19	82879200	746000	
20			
21			
22	83625200	853200	
23			
24			
25			
26	84478400	687900	
27			
28			
29	85066300	228600	
30	85294900	663900	
31			
MONTHLY TOTAL		6498290	

SYSTEM USAGE REPORT

CITY OF HOMEDALE

MONTH: Aug 11

WELL SYSTEM:

DATE	METER READING GALLONS	DAILY USAGE GALLONS	RECORDED BY
1			
2			
3	70260300	373600	
4	7063900	177300	
5	70800200	872500	
6			
7			
8	71698700	64300	
9			
10	72393000	743500	
11			
12	73136500	900800	
13			
14			
15	74037300	1889300	
16			
17			
18			
19			
20			
21			
22	75924600	911300	
23			
24			
25	76837900	168200	
26	77006100	823000	
27			
28			
29	77829100	557500	
30			
31	78386600	450600	
MONTHLY TOTAL			

78837200 8586600

SYSTEM USAGE REPORT

CITY OF HOMEDALE

MONTH:

July 11

WELL SYSTEM:

DATE	METER READING GALLONS	DAILY USAGE GALLONS	RECORDED BY
1			
2			
3			
4			
5	62255700	451100	
6	62506800	429700	
7	62931500	1100300	
8			
9			
10			
11	64031800	597100	
12			
13	64628900	470400	
14			
15	65099300	741300	
16			
17			
18	65840600	554300	
19	~~66394900~~		
20	66394900	277600	
21	66672500	3587800	
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
MONTHLY TOTAL		8204600	



294.93 gpm x
0.00223 = 0.66 cfs
system usage
report

PEAK
but at
time of
field
exam, it
was
0.87 cfs

0.41 cfs / (31 day
average)

SYSTEM USAGE REPORT

CITY OF HOMEDALE

MONTH: June 11

WELL SYSTEM: _____

DATE	METER READING GALLONS	DAILY USAGE GALLONS	RECORDED BY
1		1436300	
2			
3			
4			
5			
6	54899800	292810	
7	55192100	159100	
8	55351700	190400	
9	55542100	207200	
10	55749300	1229900	
11			
12			
13			
14			
15	56979200	1130600	
16			
17			
18			
19			
20	58109800	243100	
21	58352900	1627100	
22			
23			
24			
25			
26			
27	59980000	676900	
28			
29	60556900	217600	
30	60774500	1481200	
31			
MONTHLY TOTAL			

X SYSTEM USAGE REPORT

8685000