

Hydro Logic, Inc.

1002 W. Franklin Street, Boise, ID 83702 (208) 342-8369. (Fax) 342-3100, hvdrologic@qwest.net

March 15, 2003

Mr. Shelley W. Keen
Water Rights Supervisor
Idaho Department of Water Resources
Water Allocation Bureau
1301 North Orchard Street
Boise, Idaho 83720

Re: Water right Permit No. 63-31138 in the name of the City of Meridian

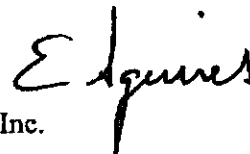
Dear Shelley:

I have been working with the City of Meridian to develop new groundwater sources for their growing community. I filed for water right No. 63-31138 on behalf of the City seeking a water bearing zone to be appropriated as 100-to-150 feet below land surface for one well in the SE NE S 24 and 500-to-800 feet for two wells in the SW NE S24. One of the two POD's in the SW NE has been developed and is now producing from aquifer units between 545-to-667 feet below land surface. A 975-foot exploratory test-well drilled at this site shows that below 667 feet (the total depth of the existing City well) is a monotonous geologic section consisting of low-permeability mud-stone and clay with no water-bearing sand units. Owing to this discovery, our intention for completion of a second well on the site has changed. We would, now, like to propose that the second point of diversion be completed into sand aquifers present from 185-to-300 feet below land surface. Therefore, to ensure the successful completion of a productive well of good water quality for municipal purposes, I am requesting IDWR approval to modify the water-bearing zone to be appropriated. Because of the City's rapidly emerging need for water supply, it is our hope that the requested change in aquifer appropriation depth is not significant enough to require re-advertisement (amendment) of the Permit No. 63-31138 because of the time involved. We have researched the IDWR Well Driller's Report data base for the surrounding area within one mile of the proposed well and have not located any nearby wells that could pose potential well interference effects from a well completed at the requested depths.

I apologize for the last minute nature of this request and in asking for your prompt review. Please contact me at 342-8369 at your earliest convenience. Thank you.

Respectfully,

Ed Squires
Hydro Logic, Inc.



c: Gary D. Smith, P.E.
Public Works Director
City of Meridian

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JUN 02 2003

Well Proof Report

No well driller's report on
file as of 3/20/03. s. Keen

Permit No. 769289
Metal Tag No. D0018519,
Well ID # 341274
Water Right No.

Relationship: Applicant
Name: CITY OF MERIDIAN Phone:(208)888-4433
Address: 33 E IDAHO AVE
MERIDIAN ID 83642

Well Location: Township 03N, Range 02E, Section 9, SW, SW, SE
COUNTY ADA Sub Name Bear Creek Sub. Park

Address of Well Site: ALONG THE SOUTH BANK OF THE HARDIN DRAIN ON EAST SIDE
OF STODDARD LANE 2,000 FEET SOUTH OF OVERLAND
MERIDIAN ID

Use of Well: Municipal

Activity: New Well

Region: Western

Construction Method: Reverse Circulation

Const Start Date: Jul 10 2001 Const End Date: Sep 07 2001

Well Drilling Company: RIVERSIDE INC (No. 333)

Card Hold Name: TERRY L DAUGHERTY Phone:(541)372-3274 (No. 4446)

Certifying Official: TERRY L DAUGHERTY Phone:(541)372-3274 (No. 4446)

Date Received: Sep 12 2001

Date Approved: Jun 04 2001

Date Inspected: Jul 13, 2001,

Completed Depth: 663 FT Drilled Depth: 670 FT Surface Diameter: 18 inches

Primary Flow Depth: Overall Temp: 75 Static Water Level: 125

Head Pipe Length: Tail Pipe Length Production Rate: 2000
GPM

Closed in Pressure: Bottom Hole Temp: 75 F. Low Temp Geothermal: NO

Control Device Desc:

Access Port Desc:

Casing

From	To	Diam	Type	Gauge	Join Type	Material
3	544	18	Casing	0.375	Welded	Steel

Seal

From	To	Material	Amount	Method
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0	545	Bentonite granuals	52.5 sacks	Overbore
520	557	sand	4806 lbs	Pour
557	567	Sand	4806 lbs	Pour
567	626	Sand	4806 lbs	Pour
626	628.5	Sand	4806 lbs	Pour
628.5	667	Sand	4806 lbs	Pour

Screen

From	To	Dia	Type	Slot Size	# of Slots	Material	Perforation Meth	Screen Type
523	543	10	Screen			Stainless steel		Johnson
543	568	10	Screen	0.04		Stainless steel		Johnson
568	573	10	Screen	0.04		Stainless steel		Johnson
573	588	10	Screen	0.02		Stainless steel		Johnson
588	603	10	Screen	0.03		Stainless steel		Johnson
603	608	10	Screen	0.03		Stainless steel		Johnson
608	628	10	Screen	0.02		Stainless steel		Johnson
628	663	10	Screen	0.035		Stainless steel		Johnson

Lithologic Layer

From	To	Diam	Water	Color	Material	Texture
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Drive Shoe

Depth	Test Description
0	no shoe drive

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JUN 9 2 2003

USE TYPEWRITER OR
BALL POINT PEN

State of Idaho
Department of Water Administration

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.

*Received
8-11-72
R 277*

1. WELL OWNER

Name Tracy Wright
Address 5044 mtn View Dr.
Owner's Permit No. Brie

2. NATURE OF WORK

☒ New well ☐ Deepened ☐ Replacement
☐ Abandoned (describe method of abandoning)

3. PROPOSED USE

☒ Domestic ☐ Irrigation ☐ Test
☐ Municipal ☐ Industrial ☐ Stock

4. METHOD DRILLED

☒ Cable ☐ Rotary ☐ Dug ☐ Other

5. WELL CONSTRUCTION

Diameter of hole 6 inches Total depth 335 feet
Casing schedule: ☐ Steel ☐ Concrete
Thickness Diameter From To
250 inches 6 inches 1 feet 323 feet
188 inches 5 inches 312 feet 324 feet
188 inches 5 inches 332 feet 335 feet

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

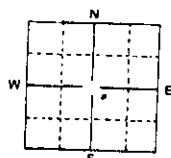
Well screen installed? ☒ Yes ☐ No
Manufacturer's name Johnson
Type Stainless Model No. _____
Diameter 6 Slot size 20 Set from 324 feet to 332 feet
Diameter _____ Slot size _____ Set from _____ feet to _____ feet

Gravel packed? ☐ Yes ☒ No Size of gravel _____
Placed from _____ feet to _____ feet

Surface seal? ☒ Yes ☐ No To what depth 20 feet
Material used in seal ☐ Cement grout ☒ Pudding clay

6. LOCATION OF WELL

Sketch map location must agree with written location.



County Ada
S.E. 1/4 NW 1/4 Sec. 24 T. 3 N. R. 1 W

7. WATER LEVEL

Static water level 6.2 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

8. WELL TEST DATA

☒ Pump ☐ Bailor ☐ Other

Discharge G.P.M.	Draw Down	Hours Pumped
<u>12 at 100'</u>	<u>3.3</u>	<u>2</u>
<u>30 at 147'</u>	<u>8.5</u>	<u>2</u>
<u>40 at 168'</u>	<u>10.6</u>	<u>14</u>

9. LITHOLOGIC LOG

Hole Diam.	Depth		Material	Water	
	From	To		Yes	No
<u>6</u>	<u>0</u>	<u>2</u>	<u>topsoil</u>		
	<u>2</u>	<u>20</u>	<u>gravel</u>		
	<u>20</u>	<u>28</u>	<u>sand</u>		
	<u>28</u>	<u>48</u>	<u>sandy clay</u>		
	<u>48</u>	<u>80</u>	<u>clay</u>		
	<u>80</u>	<u>91</u>	<u>sandy clay</u>		
	<u>91</u>	<u>107</u>	<u>coarse sand</u>		
	<u>103</u>	<u>115</u>	<u>sandy clay</u>		
	<u>115</u>	<u>120</u>	<u>red sand</u>		X
	<u>120</u>	<u>125</u>	<u>sandy clay</u>		X
	<u>125</u>	<u>136</u>	<u>clay</u>		X
	<u>136</u>	<u>140</u>	<u>sand</u>		X
	<u>140</u>	<u>182</u>	<u>clay</u>		X
	<u>182</u>	<u>187</u>	<u>red sand</u>		X
	<u>187</u>	<u>197</u>	<u>white clay</u>		X
	<u>197</u>	<u>200</u>	<u>white sand</u>		X
	<u>200</u>	<u>205</u>	<u>sandy clay</u>		X
	<u>205</u>	<u>223</u>	<u>very fine sand</u>		X
	<u>223</u>	<u>265</u>	<u>clay-sand shales</u>		X
	<u>265</u>	<u>285</u>	<u>stuffy clay</u>		X
	<u>285</u>	<u>290</u>	<u>soft brown clay</u>		X
	<u>290</u>	<u>307</u>	<u>yellow stuffy clay</u>		X
	<u>307</u>	<u>308</u>	<u>red sand</u>		X
	<u>308</u>	<u>309</u>	<u>clay</u>		X
	<u>309</u>	<u>315</u>	<u>red sand</u>		X
	<u>315</u>	<u>335</u>	<u>sand</u>		X

10.

Work started June 19-72 finished July 27-72

11. DRILLER'S CERTIFICATION

This well was drilled under my supervision and this report is true to the best of my knowledge.

Engleman Well Drilling 47
Driller's or Firm's Name Number

1309 Sand Boice
Address

Joe Engleman 8-6-72
Signed By Date

USE ADDITIONAL SHEETS IF NECESSARY. FORWARD THE WHITE, BLUE, AND PINK COPIES TO THE DEPARTMENT

JUN 02 2003

USE TYPEWRITER OR
BALL POINT PEN

State of Idaho
Department of Water Administration

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.

Received
3-34-72
DWA

1. WELL OWNER Name <u>J. Burns Seal</u> Address <u>4820 Cresthaven Dr.</u> <u>Boise</u> Owner's Permit No. _____	7. WATER LEVEL Static water level <u>8.3</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 ☐ Bailor ☐ Other <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Discharge G.P.M.</th> <th>Draw Down</th> <th>Hours Pumped</th> </tr> <tr> <td><u>20</u></td> <td></td> <td><u>1.9</u></td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	Discharge G.P.M.	Draw Down	Hours Pumped	<u>20</u>		<u>1.9</u>																																																																						
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USE ADDITIONAL SHEETS IF NECESSARY

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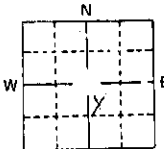
JUN 9 2 2003

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORTUSE TYPEWRITER OR
BALLPOINT PENState 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>Mel Lacy</u> Address <u>3000 S. Linda Rd.</u> <u>Mendon ID 83642</u> Owner's Permit No. <u>63-50-W-055</u>		7. WATER LEVEL Static water level <u>40</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 <i>Describe artesian or temperature zones below</i>																																																											
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 Discharge G.P.M. <u>60</u> Pumping Level _____ Hours Pumped <u>1</u>																																																											
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5. WELL CONSTRUCTION Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____ Thickness _____ inches Diameter _____ inches From _____ feet To _____ feet 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 Number _____ From _____ feet To _____ feet perforations _____ feet perforations _____ feet perforations _____ feet Well screen installed? ☒ Yes ☐ No Manufacturer's name <u>BOOK</u> Model No. _____ Type <u>304</u> Slot size <u>0.20</u> Set from <u>223</u> feet to <u>233</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 ☒ Bentonite ☒ Pudding 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 _____		11. DRILLERS CERTIFICATION I/We certify that all minimum well construction standards were complied with at the time the rig was removed. Firm Name <u>Dennis Phipps</u> Firm No. <u>332</u> Address <u>Mendon ID</u> Date <u>6-13-90</u> Signed by (Firm Official) <u>Dennis Phipps</u> and (Operator)																																																											
6. LOCATION OF WELL Sketch map location must agree with written location. N W E Subdivision Name _____ Lot No. _____ Block No. _____ County <u>ARMCHAIR</u> NW 1/4 SE 1/4 Sec. <u>24</u> T. <u>3</u> S. R. <u>1</u> W. X																																																													

USE ADDITIONAL SHEETS IF NECESSARY - FORWARD THE WHITE COPY TO THE DEPARTMENT

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORTUSE TYPEWRITER OR
BALLPOINT PENState 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>Glenn Wilson</u> Address _____ Owner's Permit No. _____		7. WATER LEVEL Static water level <u>70'</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 _____																																																																																			
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe method of abandoning) _____		8. WELL TEST DATA ☐ Pump ☐ Bailer ☐ Air ☐ Other _____ Discharge G.P.M. _____ Pumping Level _____ Hours Pumped _____																																																																																			
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 colspan="2">Water</th></tr><tr><th>From</th><th>To</th><th>Yes</th><th>No</th></tr></thead><tbody><tr><td></td><td>0</td><td>1</td><td>Fill, gravel, sand</td><td></td><td>X</td></tr><tr><td></td><td>1</td><td>4</td><td>Cemented gravel</td><td></td><td>X</td></tr><tr><td></td><td>4</td><td>20</td><td>Sand & gravel</td><td></td><td>X</td></tr><tr><td></td><td>20</td><td>50</td><td>Sand</td><td></td><td>X</td></tr><tr><td></td><td>50</td><td>55</td><td>Sandy clay</td><td></td><td>X</td></tr><tr><td></td><td>55</td><td>108</td><td>Light sand</td><td>X</td><td></td></tr><tr><td></td><td>108</td><td>115</td><td>Sandy clay</td><td></td><td>X</td></tr><tr><td></td><td>115</td><td>119</td><td>Hard clay</td><td></td><td>X</td></tr><tr><td></td><td>119</td><td>120</td><td>Sandy clay</td><td></td><td>X</td></tr><tr><td></td><td>120</td><td>160</td><td>Sand</td><td></td><td>X</td></tr><tr><td></td><td>160</td><td>179</td><td>Sandy clay</td><td></td><td>X</td></tr><tr><td></td><td>179</td><td>180</td><td>Sand & water</td><td>X</td><td></td></tr></tbody></table>		Hole Diam.	Depth		Material	Water		From	To	Yes	No		0	1	Fill, gravel, sand		X		1	4	Cemented gravel		X		4	20	Sand & gravel		X		20	50	Sand		X		50	55	Sandy clay		X		55	108	Light sand	X			108	115	Sandy clay		X		115	119	Hard clay		X		119	120	Sandy clay		X		120	160	Sand		X		160	179	Sandy clay		X		179	180	Sand & water	X	
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MICHAEL J. HARRIS

JUN 02 2000