

66396

WELL RECORD

PWTS Permit No. _____

Iowa Department of Natural Resources - Geological Survey
109 Trowbridge Hall, Iowa City, IA 52242-1319 PH (319) 335-1575

PWTS Well No. _____

County Permit No. _____

Site identification

Property Owner Volga River Recreation Other ID _____Address 10225 Ivy Road Fayette, IA 52712

Tenant _____

Well Depth 272' ft Date completed 2/23/09

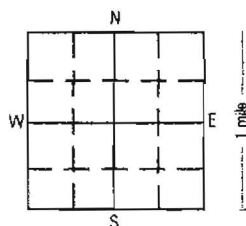
Location

County Fayette____ mi. N and ____ mi. E of intersection of _____ and _____
1/4 of the _____ 1/4 of the _____ 1/4 of the _____ Sec _____ Twp _____ Rng _____ E _____ W _____

GPS Coordinates (NAD83 datum only) decimal degrees:

____ N. Latitude _____ W. Longitude.

Show exact location of well in section grid with a dot (•). Sketch map of well location on property.


☐ upland ☐ hillside ☐ valley ☐ level surface Elevation (if known) _____

Formation log

From	To	Color	Hardness	Formation description
0	12'			brown clay
12'	59'			brown limestone
59'	62'			brown gray limestone
62'	69'			gray tan limestone
69'	72'			tan gray limestone
72'	76'			gray limestone
76'	82'			tan limestone
82'	90'			green shale
90'	164'			gray green shale
164'	204'			gray shale soft
204'	263'			brown limestone
263'	272'			gray shale

use additional sheets as needed

Remarks (including depth of lost drilling fluids, materials, or tools)

Well use

- ☐
- Domestic
-
- ☐
- Livestock
-
- ☐
- Test well

- ☐
- Heat pump
-
- ☐
- Municipal
-
- ☒
- Public supply
-
- ☐
- Irrigation

- ☐
- Commercial
-
- ☐
- Monitoring
-
- ☐
- Other _____

Drill method

☐ rotary ☐ auger ☐ cable ☐ other _____

Hole size

hole size continued

13 inch from 0 ft to 272' inch from _____ ft to _____ ft
 _____ inch from _____ ft to _____ ft _____ inch from _____ ft to _____ ft

Record all depth measurements from ground level (GL). Use (+) for above GL measurements.

Casing

Drive shoe (yes/no) _____ Pileless adapter (yes/no) _____

Size (ID/OD)	Type / Wt	Depth top	Depth bottom	Amount (length)
8.625	steel	0	211	211

Perforated or slotted casing? (yes/no)

 Perforated / slotted from _____ ft to _____ ft
 Perforated / slotted from _____ ft to _____ ft

Casing grouted? (yes/no)

Placement method _____

Type	Depth top	Depth bottom	Amount (vol/wt)
Neat cement	0'	211'	

Well screen? (yes/no)

Diameter	Slot size	Depth top	Depth bottom	Length	Material
	0				
	0				

 Bottom capped (yes/no) _____ with _____
 Seals / Packers (yes/no) _____ kind _____ depth _____ ft
 Gravel packed (yes/no) _____ from _____ ft to _____ ft
 type _____ amount _____

Well developed? (yes/no)

 Explain _____
 (pumped, airlifted, bailed) for 2 hrs at 24 GPM

Pump installed? (yes/no)

Date _____ / _____ / _____

 Installer's name _____
 Type of pump _____ Depth to intake _____ ft
 Pump diameter _____ Rated capacity _____ GPM

Water information

Aquifer ☐ sand / gravel ☒ limestone ☐ sandstoneMain water-supply zone from 215 ft to 270 ft ☐ seepage wellStatic water level 203 ft (below/above) GL: ☐ tape ☐ airline ☒ E-line ☐ estimatePumping water level 212 ft below GL: ☐ tape ☐ airline ☒ E-line ☐ estimateAt yield of 56 GPM: ☐ orifice ☐ volumetric ☐ estimate for _____ hoursMeasurements taken at 11:30 (AM/PM) Date 3/2/09

Water quality test? (yes/no)

Date tested 3/2/09Tested by IHLContractor Cahoy Pump ServiceAddress Fredericksburg, IADriller Tom Mellick Certification no. 7058

Shawver Well Company, Inc.2700 Stanley Avenue
Fredericksburg, IA 50630(563) 237-5341
(800) 568-4449

Location of Well East of the Lake Fayette, IA 52142 T93N R8W County Fayette Township Westfield Section 02 Quarters SWSWSW Customer Information Tom Halverson <u>VOLGA RIVER RECREATION AREA</u> 10225 Ivy Road Fayette, IA 52142 Job Information Area CM T93N R8W Confirmation Start Date 2/16/2009 End Date 2/23/2009 Latitude Longitude PWTS # Permit Number Warranty Date Warranty	Well Site Information Actual Size Depth 272' Elevation SWL 200' 217' @ RPS 24 GPM Max GPM 24 Pump Inst -- Liner--ft Sulfide -- Screen-- Air Lift 270' @ 24GPM 217' @ 24GPM 2 Hours Made Water 251', 254', 259' Screen Size Exploratory -- To Ft -- Mock Rock Acidize -- Well Use Slot Size Riser Pipe Set From Perforated From Tail Pipe Driller Tom Mellick; Cert #: 7058 Remarks:																																																																						
Well Formation Log <table border="1"> <thead> <tr> <th>From-To</th> <th>Color</th> <th>Formation</th> </tr> </thead> <tbody> <tr><td>0 - 12</td><td>Brown</td><td>Clay</td></tr> <tr><td>12 - 59</td><td>Brown</td><td>Limerock</td></tr> <tr><td>59 - 62</td><td>Brown - Gray</td><td>Limerock</td></tr> <tr><td>62 - 69</td><td>Gray</td><td>Limerock</td></tr> <tr><td>69 - 72</td><td>Tan - Gray</td><td>Limerock</td></tr> <tr><td>72 - 76</td><td>Gray</td><td>Limerock</td></tr> <tr><td>76 - 82</td><td>Tan</td><td>Limerock</td></tr> <tr><td>82 - 90</td><td>Green</td><td>Shale</td></tr> <tr><td>90 - 164</td><td>Gray - Green</td><td>Shale</td></tr> <tr><td>164 - 204</td><td>Gray</td><td>Shale - Soft</td></tr> <tr><td>204 - 263</td><td>Brown</td><td>Limerock</td></tr> <tr><td>263 - 272</td><td>Gray</td><td>Shale</td></tr> </tbody> </table>	From-To	Color	Formation	0 - 12	Brown	Clay	12 - 59	Brown	Limerock	59 - 62	Brown - Gray	Limerock	62 - 69	Gray	Limerock	69 - 72	Tan - Gray	Limerock	72 - 76	Gray	Limerock	76 - 82	Tan	Limerock	82 - 90	Green	Shale	90 - 164	Gray - Green	Shale	164 - 204	Gray	Shale - Soft	204 - 263	Brown	Limerock	263 - 272	Gray	Shale	Bore Log <table border="1"> <thead> <tr> <th>From-To</th> <th>Bit Size - Number</th> <th></th> </tr> </thead> <tbody> <tr><td>0 - 17</td><td>14 3/4" Tricone</td><td>42004</td></tr> <tr><td>17 - 272</td><td>7 7/8" Hammer Bit - Dave Halweg</td><td>1J967</td></tr> <tr><td>17 - 208</td><td>13"</td><td></td></tr> <tr><td>208 - 272</td><td>7 7/8"</td><td>172959</td></tr> </tbody> </table> Well Casing Log <table border="1"> <thead> <tr> <th>From-To</th> <th>Casing</th> <th></th> </tr> </thead> <tbody> <tr><td>0 - 211</td><td>8 5/8" x Steel</td><td></td></tr> </tbody> </table> Screen Size Slot Size Riser Pipe Set From Tail Pipe Well Grout Used <table border="1"> <thead> <tr> <th>Amount</th> <th>Type</th> </tr> </thead> <tbody> <tr><td>100 sacks</td><td>Neat Cement</td></tr> <tr><td>6 sacks</td><td>High Early</td></tr> <tr><td>1 sacks</td><td>Holeplug</td></tr> <tr><td>8 sacks</td><td>Casing Seal</td></tr> </tbody> </table>	From-To	Bit Size - Number		0 - 17	14 3/4" Tricone	42004	17 - 272	7 7/8" Hammer Bit - Dave Halweg	1J967	17 - 208	13"		208 - 272	7 7/8"	172959	From-To	Casing		0 - 211	8 5/8" x Steel		Amount	Type	100 sacks	Neat Cement	6 sacks	High Early	1 sacks	Holeplug	8 sacks	Casing Seal
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