

81630

WELL RECORD

10f3

PWTS Permit No.

County Permit No.

46502

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

PWTS Well No.

Site identification

Property Owner Cassey Coleman Other ID 2186988
Address 2170 140th St Fort Dodge
Tenant _____
Well Depth 380 ft Date completed 1/13/16

Drill method rotary auger cable other _____
Hole size 9 7/8 inch from 0 ft to 96 ft
5 7/8 inch from 96 ft to 380 ft

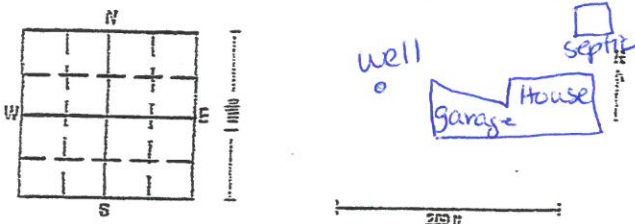
Location County Webster
mi. ⁿ and mi. ^w of intersection of _____ and _____
1/4 of the 1/4 of the 1/4 of Sec. TWP. Rng. = _____

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

Casing Size (ID/OD)	Drive shoe (yes/no)	Filter adapter (yes/no)	Depth top	Depth bottom	Amount (length)
<u>6 1/4</u>	<u>PVC250</u>	<u>+2</u>	<u>96</u>	<u>98</u>	

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.



Perforated or slotted casing? (yes/no) 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)
<u>3/8 holeplug</u>	<u>0</u>	<u>96</u>	<u>26 bags</u>

upland hillside valley level surface Elevation (if known) _____

Well screen? (yes/no) no

Diameter	Slot size	Depth top	Depth bottom	Length	Material
<u>0</u>					
<u>0</u>					

Formation log

From	To	Color	Hardness	Formation description
<u>0</u>	<u>3</u>	<u>Black</u>	<u>S</u>	<u>topsoil</u>
<u>3</u>	<u>8</u>	<u>yellow</u>	<u>S</u>	<u>Sand</u>
<u>8</u>	<u>13</u>	<u>yellow</u>	<u>S</u>	<u>Clay</u>
<u>13</u>	<u>21</u>	<u>Blue</u>	<u>S</u>	<u>Clay</u>
<u>21</u>	<u>36</u>	<u>yellow</u>	<u>S</u>	<u>Sand</u>
<u>36</u>	<u>37</u>	<u>green</u>	<u>S</u>	<u>Shale</u>
<u>37</u>	<u>39</u>	<u>gray</u>	<u>MH</u>	<u>limestone</u>
<u>39</u>	<u>47</u>	<u>Brown</u>	<u>MH</u>	<u>limestone</u>
<u>47</u>	<u>61</u>	<u>white gray</u>	<u>MH</u>	<u>limestone</u>
<u>61</u>	<u>78</u>	<u>green</u>	<u>S</u>	<u>Shale</u>
<u>78</u>	<u>81</u>	<u>brown</u>	<u>MH</u>	<u>limestone</u>
<u>81</u>	<u>85</u>	<u>gray</u>	<u>S</u>	<u>Shale</u>
<u>85</u>	<u>91</u>	<u>tan</u>	<u>MH</u>	<u>limestone</u>
<u>91</u>	<u>92</u>	<u>green</u>	<u>S</u>	<u>Shale</u>

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

Well developed? (yes/no) no
Explain _____
(pumped, drilled, bailed) for 1 hrs at 15 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 sandstone
Main water-supply zone from 360 ft to 381 ft seepage well
Static water level 46 ft (below/above) GL; tape airline E-line estimate
Pumping water level 80 ft below GL; tape airline E-line estimate
At yield of 15 GPM; orifice volumetric estimate for _____ hours
Measurements taken at _____ (AM/PM) Date _____/_____/_____

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

Water quality test? (yes/no) _____ Date tested _____/_____/_____
Tested by _____

Well use
 Domestic Heat pump Commercial
 Livestock Municipal Monitoring
 Test well Public supply Other
 Irrigation

Contractor Schumacher Well Drilling
Address 2201 Slagle Dr Algona Ia
Driller Jeremy Walker Certification no. 6087

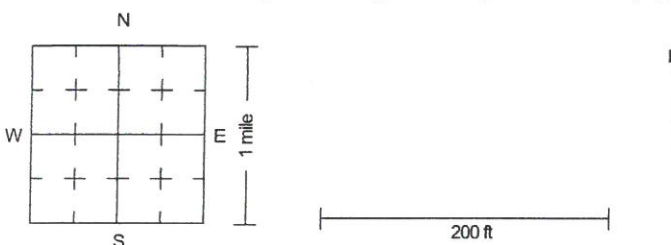
WELL RECORD FORM

2013

PWTS No. or PWS No. _____ PWTS Permit No. 48502 GEOSAM Well No. (IGS use only) _____

Site Identification
 Property owner Casey Coleman Other ID 2186988
 Address _____ City _____
 Tenant _____
 Well depth _____ ft Date completed ____/____/____

Drill Method Rotary Auger Cable Other _____
Hole size
 _____ inch from 0 ft to _____ ft
 _____ inch from _____ ft to _____ ft

Location County _____
 GPS coordinates (NAD83 datum)
 _____ Latitude _____ Longitude _____
 Decimal Degrees Degrees, Decimal Minutes Degrees, Minutes, Seconds
 _____ 1/4 of the _____ 1/4 of the _____ 1/4 of Sec _____ TWP _____ RNG _____ W
 Show exact location of well in section grid with a dot (.). Sketch map of well location on property.


Casing or Loop Pipe
 Record all depth measurements from ground level (GL). Use + for above GL measurements.

Size (in)	Material	Depth Top	Depth Bottom	Perforated	Slotted	Screen
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> slot size _____
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> slot size _____
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> slot size _____
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> slot size _____

Casing Grout Placement method _____

Type	Depth Top	Depth Bottom	Amount (vol/wt)

Gravel packed variety _____
 Seals/packers

Formation Log

From	To	Color	Hardness	Formation description
92	108	light brown	MH	Limestone
108	121	Brown	softer	Sandstone Dolomite
121	124	tan	MH	Limestone
124	126	green	S	Shale
126	138	tan	MH	Limestone
138	151	brown	MH	Limestone
151	170	white gray	MH	Limestone
170	193	white	MH	Limestone
193	228	tan	MH	Limestone
228	229	green	M	Shale
229	246	light brown	MH	Limestone
246	260	gray	MH	Limestone
260	281	brown gray	MH	Dolomite "little water"
281	285	tan	MH	Limestone
285	297	tan brown	MH-M	Dolomite
297	314	tan	MH	Limestone

(use additional sheets as needed)

Pump Installation Date ____/____/____
 Type of pump _____ Depth to intake _____ ft
 Pump diameter _____ in Rated capacity _____ GPM

Water Information Date ____/____/____
 Use + for above GL measurements.

Static Water Level	Pumping Water Level	Yield	Duration
_____ ft	_____ ft	_____ GPM	_____ hrs

Water level measurement: Sonic Tape Airline E-line Estimate
 Water yield measurement: Orifice Volumetric Estimate
 Main water-supply zone from _____ ft to _____ ft below GL

Well Development
 Physical explain: _____
 Chemical explain: _____

Contractor
 Company Schumacher Well
 Address _____
 Driller J Walker Certification no. 6087

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

Well Use
 Domestic Public supply Livestock
 Heat pump Commercial Irrigation
 # of borehole(s) _____ Monitoring Other _____



