

# WELL RECORD FORM

**PWSID# or PWTS No.** \_\_\_\_\_ **PWTS Permit No.** \_\_\_\_\_ **GeoSam WNumber** *(IGS use only)* \_\_\_\_\_

**Site Identification**

Property owner \_\_\_\_\_ Other ID \_\_\_\_\_  
 Address \_\_\_\_\_ City \_\_\_\_\_  
 Tenant \_\_\_\_\_  
 Well depth \_\_\_\_\_ ft Date completed \_\_\_\_/\_\_\_\_/\_\_\_\_

**Drill Method**    Rotary    Auger    Cable    Other \_\_\_\_\_

**Hole size**

\_\_\_\_\_ inch from \_\_\_\_\_ ft to \_\_\_\_\_ ft     hole size continued  
 \_\_\_\_\_ inch from \_\_\_\_\_ ft to \_\_\_\_\_ ft     \_\_\_\_\_ inch from \_\_\_\_\_ ft to \_\_\_\_\_ ft

**Location**

 County \_\_\_\_\_

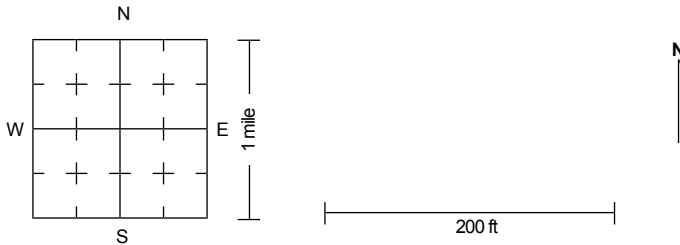
GPS coordinates (NAD83 datum)

 \_\_\_\_\_ Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

 Decimal Degrees    Degrees, Decimal Minutes    Degrees, Minutes, Seconds

 \_\_\_\_\_ <sup>E</sup>/<sub>1/4</sub> of the \_\_\_\_\_ <sup>E</sup>/<sub>1/4</sub> of the \_\_\_\_\_ <sup>E</sup>/<sub>1/4</sub> 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 _____
<input type="checkbox"/> Gravel packed				amount _____ variety _____		
<input type="checkbox"/> Seals/packers				type _____		
<input type="checkbox"/> Bottom capped with _____						

**Formation Log**

From	To	Color	Hardness	Formation description
				(use additional sheets as needed)

**Casing Grout**

 Placement method \_\_\_\_\_

Type	Depth Top	Depth Bottom	Amount (vol/wt)

**Pump Installation**

 Date \_\_\_\_/\_\_\_\_/\_\_\_\_

Type of pump \_\_\_\_\_ Depth to intake \_\_\_\_\_ ft  
 Pump diameter \_\_\_\_\_ in Rated capacity \_\_\_\_\_ GPM

**Water Information**

 Date \_\_\_\_/\_\_\_\_/\_\_\_\_

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: \_\_\_\_\_

**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 \_\_\_\_\_

**Contractor**

Company \_\_\_\_\_  
 Address \_\_\_\_\_  
 Driller \_\_\_\_\_ Certification no. \_\_\_\_\_



Mail form to Iowa Department of Natural Resources: 502 E. 9th St., Des Moines, IA 50319-0034



**Des Moines Water Works  
Army Post Road ASR Well**

**N41 31 30.8**

**W93 41 39.8**

**Drilling Completion Date – January 2016**

**Drillers:**

**Scott Grosch – License #6743**

**Mike Fritton – License #6742**

**Spencer Grosch – License # 10885**

**Lithology Log**

0–28 – Fat Clay Brown  
28-58 – Shale  
58-70 – Sand & wood  
70-81 – Sandstone  
81-87 – Black Coal Hard  
87-101 – Clay/Shale  
101-106 – Reddish Shale  
106-120 – Gray Shale sand Strips  
120-133 – Gray Shale Coal Seams  
133-135 – Brown Limestone  
135-152 – Gray Shale  
152-196 – Red Shale  
196-227 – Gray Shale Silty  
227-254 – Sandstone  
254-318 – Grey Shale Sandy  
318-366 – Black/Gray Shale – Limestone Strips – coal  
366-383 – Gray – Dark Soft Shale  
383-412 – Dark – sandy – shale – sandstone  
412-430 – sandstone – shaley – lime strips  
430-463 – gray shale limestone - stringers  
463-486 – Gray limestone – brown chert layers  
486-688 – Gray limestone w/ small shale layers  
688-746 – limestone w/ small shale layers & traces of anhydrite  
746-836 – dolomite w/ chert dark  
836-849 – shale  
849-955 – shale & dolomite layers  
955-1042 – shale & dolomite w/ anhydrite layers – mostly dolomite

1042-1060 – small sand layer & dolomite layers  
1060-1083 – dolomite dark gray w/ anhydrite layers  
1083-1101 – tan limestone – w/ anhydrite layers  
1101-1122 – brown dolomite  
1122-1130 – gray dolomite w/ traces of anhydrite  
1130-1155 – brown limestone w/ anhydrite  
155-1281 – gray dolomite few limestone traces  
1281-1338 – dolomite dark brown w/ while anhydrite layers  
1338-1360 – dolomite dark brown & very little anhydrite  
1360-1410 – gray shale (sticky/soft) w/ few limestone/dolomite layers  
1410-1420 – gray shale w/ more dolomite layers  
1420-1478 – gray dolomite (drilled fast)  
1478-1518 – tan dolomite – shale & limestone  
1518-1532 – tan dolomite – trace of red shale & limestone (start of shale @ 1514' – reamed really fast w/ no weight)  
1532-1555 – brown dolomite w/ sticky gray shale & limestone  
1555-1572 – sticky gray shale  
1572-1634 – sticky gray shale w/ some traces of dolomite/limestone  
1634-1657 – some sticky gray shale – trace of dolomite/limestone & sandstone (drilled fast)  
1657-1690 – sticky gray shale – trace of dolomite & limestone  
1690-1746 – dolomite – sandstone – limestone & trace of anhydrite layers  
1746-1927 – dolomite/sandstone w/ traces of shale  
1927-2019 – dolomite/limestone w/ trace of anhydrite (harder)  
2019-2029 – shale  
2029-2060 – Sandstone (St. Peters)  
2060-2170 – dolomite w/ shale  
2170-2200 – brown dolomite – light tan limestone  
2200-2281 – light brown dolomite  
2281-2289 – limestone layers & sandstone (white)  
2289-2305 – Light gray dolomite w/ limestone layers  
2305-2314 – sandstone  
2314-2364 – light gray dolomite w/ sandstone layers  
2364-2401 – darker gray dolomite w/ sandstone  
2401-2525 – brown dolomite