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

WELL RECORD 64812

PWTS Well No. 222380 1

PWTS Permit No. 2008-0158 w

County Permit No. _____

Site identification

Property Owner Grace E-Free Church Owner ID _____

Address _____

Tenant _____

Well Depth 471 ft Date completed 2/8/08

Location

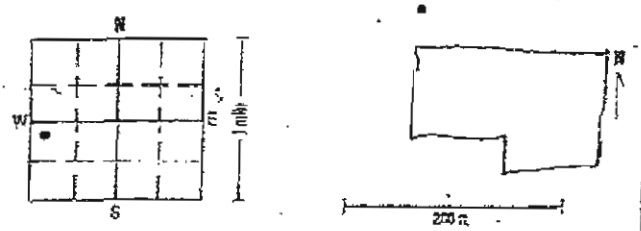
County Clay Ten

_____ ft. N/S and _____ ft. E/W of NW/SW/NE/SE section of _____ and _____

_____ 1/4 of the _____ 1/4 of the _____ 1/4 of Sec 35 Twp 93 Rge 5 E/W

GPS Coordinates (NAD83 datum only) decimal degrees:
42.82205 N. Latitude 91.40598 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) _____

Drill method

☑ rotary ☐ auger ☐ cable other _____

Hole size

12 1/4	inch	from 0 ft	to 74 ft	6 1/4	inch	from 433 ft	to 471 ft
10	inch	from 74 ft	to 433 ft	___	inch	from ___ ft	to ___ ft

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

Casing

Diameter (yes/no) Pitless adapter (yes/no)

Size (in/mm)	Type / Wt	Depth top	Depth bottom	Amount (length)
7"	317 wall	+2	433	435

Perforated or slotted casing? (yes/no)

Perforated / slotted from _____ ft to _____ ft

Perforated / slotted from _____ ft to _____ ft

Casing grouted? (yes/no)

Placement method Trimmie

Type	Depth top	Depth bottom	Amount (vol/wt)
cement	0	433	156 Bags

Well screen? (yes/no)

Diameter	Slot size	Depth top	Depth bottom	Length	Material
	o. ___				
	o. ___				

Bottom capped (yes/no) weld _____

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 1/2 hrs at 30 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 433 ft to 470 ft ☐ seepage well

Static water level 256 ft (below / above) GL; ☑ tape ☐ sline ☐ E-line ☐ estimate

Pumping water level 360 ft below GL; ☐ tape ☐ sline ☐ E-line ☑ estimate

At yield of 15 GPM; ☐ orifice ☐ volumetric ☑ estimate for _____ hours

Measurements taken at 10:30 (AM) PM Date 2/8/08

Water quality test? (yes/no)

Date tested ___/___/___

Tested by _____

Formation log

From	To	Color	Hardness	Formation description
0	12	Brown	Med	Clay
12	14	Brown	Med	sandy clay
14	30	Brown	Med	clay
30	46	Blue	Med	clay
46	48	Grey		Sand
48	69	Blue	Med	Clay
69	74	Yellow	Med	Clay
74	120	Brown	Hard	Shale
120	340	Brown	Hard	Limerock
340	350	Blue	Hard	Shale
350	370	Brown	Hard	Limerock
370	380	Blue	Hard	Shale
380	424	Grey	Hard	Limerock
424	428	Blue	Med	Shale
428	470	white	Med	Sandstone

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

470-471 Blue Shale

256 FT made 10 GPM

Well use

☐ Domestic ☐ Livestock ☐ Test well ☐ Heat pump ☐ Municipal ☑ Public supply ☐ Irrigation ☐ Commercial ☐ Monitoring ☐ Other _____

Contractor

Contractor B. B Drilling

Address Edgewood IA 52042

Driller Tim Bunting Certification no. 1726

Send original form to: Iowa Department of Natural Resources / Geological Survey

Make photocopies for: Well Contractor, Customer, and County Health Department