63194

WELL RECORD

Permit No. _____

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

permit # 2010-147W
project # W2009-253

Site Identification

Property Owner Hoot Owl Hollow Well Number 3126440 PWSID
Address 1610 Whistle Wind Ln
Tenant Dubuque, IA 52002
Well Depth 224 ft Date completed 4/30/10

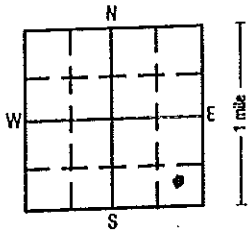
Location

County Dubuque

_____ mi. N/S and _____ mi. E/W of intersection of _____ and _____

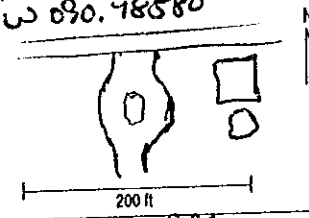
_____ 1/4 of the _____ 1/4 of the _____ 1/4 of Sec _____ TWP _____ RNG _____ E/W

Show exact location of well in section grid with a dot (●).



Sketch map of well location on property.

N 42.49853°
W 090.48580°



☐ upland ☐ hillside ☐ valley Elevation (if known) 886

Formation log

From	To	Color	Hardness	Formation description
0	9	Grey		Clay
9	14			gravel, sand
14	23	brown		Lime, shale
23	34	brown soft		Limestone
34	45	Crackle		Shale
45	50	Dk Brown		Limestone, shale
50	224	gry, tan		Limestone

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use additional sheets as needed

Remarks (including depth of lost drilling fluids, materials, or tools)
water zones - 181' (150 gpm) 180'-200' 100 gpm
130', 150' (15 gpm) 160', 170' (25-30 gpm)

Well use

☐ Domestic ☐ Municipal ☐ Commercial
☐ Livestock ☒ Public supply ☐ Monitoring
☐ Test well ☐ Irrigation ☐ Other _____ (explain)

Drill method

☒ rotary ☐ auger ☐ cable other _____

Hole size

12 inch from 0 ft to 14 1/2 ft
10 inch from 14 1/2 ft to 118'8" ft

hole size continued
6 inch from 118'8" ft to 224' 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) Pitless adapter (yes / no)

Size (ID/OD)	Type / Wt	Depth top	Depth bottom	Amount (length)
6" ID	.280	+2'6"	118'8"	121'8"
		concrete fuse		
4 1/2" ID	SCH 40	115'	224'	109'

Perforated or slotted casing? (yes / no)

Perforated / slotted from 124' ft to 224' ft
Perforated / slotted from _____ ft to _____ ft

Casing grouted? (yes / no) Placement method Halliburton

Type	Depth Top	Depth bottom	Amount (vol/wt)
Neat Cement	-2	118'8"	46 sacks

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 100 gpm C 220', 140' C. 50 gpm
(pumped, airlifted, bailed) for 2 hrs at 100+ 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 180 ft to 224 ft ☐ seepage well
Static water level 96 ft (below / above) GL; ☐ tape ☒ airline ☐ E-line ☐ estimate
Pumping water level 120' ft below GL; ☐ tape ☒ airline ☐ E-line ☐ estimate test pumped
At yield of 50 gpm GPM; ☐ orifice ☐ volumetric ☒ estimate C 45 gpm, 120'
Measurements taken at ___:___ (AM / PM) Date ___/___/___

Water quality test? (yes / no) Date tested ___/___/___

Tested by _____

Contractor Otis's Well Drilling
Address Manchester, IA 52057
Driller _____ Certification no. 6714