70648

partment of Natural Resources Geological Survey Bureau
'bridge Hall, Iowa City, IA 52242-1319 PH (319) 335-1575

WELL RECORD

Project # W2009-423 Permit No. 2009-376 W

Permit # 2009-376W

Identification

PWSID # 2279960

Property Owner EWALL Public Well Well Number ____

Address (Cedar Lake)

Tenant 37776 Alpha Ave. Strawberry Point, Ia

Well Depth 133 ft Date completed 3 / 30 / 10

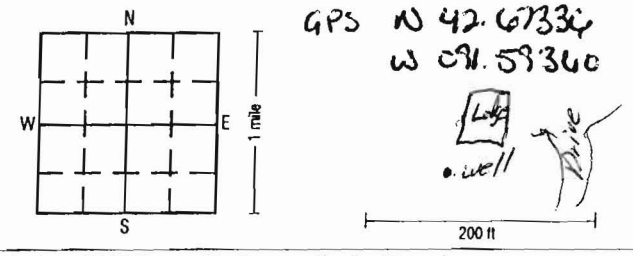
Location

County Clayton

____ 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.



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

Formation log

From	To	Color	Hardness	Formation description
0	1½	Black		Topsoil
1½	4	Tan	Soft	coarse limestone
4	17	Tan		limestone
17	33	TAN/gry		limestone
33	40	gry		limestone
40	55	gry, green, orange		limestone
55	63	gry, tan, white		limestone
63	85	gry, tan		limestone
85	107	gry		limestone
107	121	tan, orange, gry		limestone
121	133	gry		limestone
133		blue		Shale

use additional sheets as needed

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

very soft spot 14' small cavi's @ 54'

soft semi coarse lime 36' & 38'

54-64' 15 gpm

Well use

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

Drill method

☒ rotary ☐ auger ☐ cable other ____

Hole size

12	inch	from 0 ft	to 5'5" ft	6	inch	from 80 ft	to 133 ft
10"	inch	from 5'5" ft	to 80 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 steel	+1½	80	81'6"

Perforated or slotted casing? (yes / no)

Perforated / slotted from ____ ft to ____ ft

Perforated / slotted from ____ ft to ____ ft

Casing grouted? (yes / no)

Placement method Halliburton

Type	Depth Top	Depth bottom	Amount (vol/wt)
Neat cement		80	33 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 120' of 5 Dr Spm

(pumped, airlifted, bailed) for 1 hrs at 50+ GPM.

Pump installed? (yes / no)

Date 4 / 1 / 10

Installer's name OASIS

Type of pump Submersible Depth to intake 106 ft

Pump diameter 3" Rated capacity 25 GPM

Water information

Aquifer: ☐ sand / gravel ☒ limestone ☐ sandstone

Main water-supply zone from 128 ft to 130 ft ☐ seepage well

Static water level 42 ft (below / above) GL; ☒ tape ☐ airline ☐ E-line ☐ estimate

Pumping water level 77 ft below GL; ☒ tape ☐ airline ☐ E-line ☐ estimate

At yield of 45 GPM; ☐ orifice ☐ volumetric ☐ estimate

Measurements taken at 11 : 00 (AM / PM) Date 3 / 30 / 10

Water quality test? (yes / no)

Date tested ___ / ___ / ___

Tested by ____

Contractor Oasis Well Drilling

Address Manchester, IA 52057

Driller ____ Certification no. 10714

Iowa DNR Geological Survey Bureau blue copy – Well Contractor pink copy – Customer yellow copy – County Health Officer

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EWALU TEST PUMPING

March 30, 2010

Time	Static Water Level	Gallons per minute	Clarity
10:40 am	42'	60 spm	Cloudy
10:47	75'	50 spm	Cloudy
10:52	74'	45 spm	Cloudy
11 00	75'	45 spm	Cloudy
11:14	76'	45 spm	Cloudy
11:25	76'	45 spm	Cloudy
11:35	76' 10"	45 spm	Cloudy
11:41	77'	45 spm	" "
11:52	77'	45 spm	" "
12.07	77' 1"	45 spm	" "
12:18	77' 1"	45	clear
12:31	77 1"	45 spm	clear
1:00	77 1"	45	Clear
1:30	77 '	45	clear
2:00	77'	45	Clear

	Recovery
2:05	59'
2:10	52'
2:15	48'
2:25	45'
2:35	44'
2:45	43'
2:56	42'