

WELL RECORD

Permit No. _____

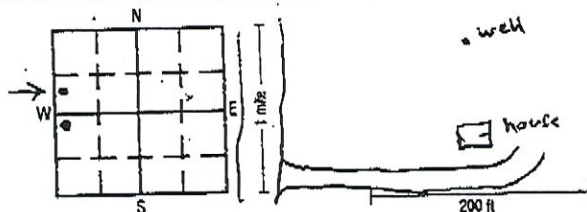
Iowa Department of Natural Resources Geological Survey Bureau
109 Trowbridge Hall, Iowa City, IA 52242-1319 PH (319) 335-1575

MAY 1 2007

Site identification Dan Wells
 Property Owner Hole in the Wall Hunt Club Well Number 1
 Address P.O. Box 1310 Le Mars, IA 51021
 Tenant 14396 Diamond Ave Akron
 Well Depth 366 ft Date completed 10/7/03

Location Portland County Plymouth
1/2 mi. ^N and — mi. ^E of Intersection of C-16 and Diamond Ave
NW 1/4 of the SW 1/4 of the SW 1/4 of Sec 27 TWP 93 RNG 43 E

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	2	Black		top soil
2	6	Yellow		clay
6	41	Yellow		Sandy clay
41	102	Blue		shale
102	121			limestone
121	185	Blue		shale
185	276	Gray		shale w/ sandstone streaks
276	286	white		Sandstone
286	304			shale & sandstone & pyrite
304	306			Sandstone
306	332			Silty Sandstone
332	366	white		Sandstone

use additional sheets as needed

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

Well use

- ☒ Domestic
☐ Livestock
☐ Test well
☐ Municipal
☐ Public supply
☐ Irrigation
☐ Commercial
☐ Monitoring
☐ Other _____

(explain)

Drill method ☒ rotary ☐ auger ☐ cable ☐ other _____
Hole size 1 1/4 inch from 0 ft to 284 ft
7 1/2 inch from 284 ft to 366 ft

hole size continued
 _____ inch from _____ ft to _____ ft
 _____ inch from _____ ft to _____ ft

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

Casing Size (ID/OD)	Type / Wt	Drive a hole (yes/no)		Pileless adapter (yes/no)		Amount (length)
		Depth top	Depth bottom	Depth top	Depth bottom	
8"	200 PSI	+	204			205
8"	250 PSI		284			80'
4"	Sch 40 PVC		262		282	20'
4"	Sch 40 PSL		285		335	50'

Perforated or slotted casing? (yes/no)

Perforated / slotted from 282 ft to 285 ft

Perforated / slotted from _____ ft to _____ ft

Casing grouted? (yes/no)

Placement method drum pipe

Type	Depth Top	Depth bottom	Amount (vol/wt)
<u>Pentonite</u>	<u>0</u>	<u>284</u>	<u>28 bags</u>

Well screen? (yes/no)

Diameter	Slot size	Depth Top	Depth Bottom	Length	Material
<u>4"</u>	<u>0.020</u>	<u>335</u>	<u>365</u>	<u>30'</u>	<u>Jayco wop PVC</u>

Bottom capped (yes/no)

with PVC cap

Seals / Packers (yes/no)

kind _____ depth _____ ft

Gravel packed (yes/no)

from 262 ft to 366 ft

type #400 muscine amount 2000 lbs.

Well developed? (yes/no)

Explain bottom developed

(pumped, airlifted, bailed) for 1 1/2 hrs at 24 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 332 ft to 366 ft ☐ seepage well

Static water level 120 ft (below / above) GL: ☐ tape ☐ airline ☒ E-line ☐ estimate

Pumping water level 120 ft below GL: ☒ tape ☐ airline ☐ E-line ☐ estimate

At yield of 24 GPM: ☐ orifice ☐ volumetric ☒ estimate

Measurements taken at 3:30 (AM/PM) Date 10/7/03

Water quality test? (yes/no)

Date tested _____/_____/_____

Tested by _____

Contractor Alton Well & Concrete Co Inc

Address P.O. Box 1 Alton, IA 51003

Driller Larry Morrison Certification no. 40075