74936

# WELL RECORD

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

PWTS Well No. _____ PWTS Permit No. _____ County Permit No. _____

## Site identification

Property Owner Green Plains Other ID _____
Address _____
Tenant _____
Well Depth 240 ft. Date completed 10 / 4 / 11

## Location

County Kossuth

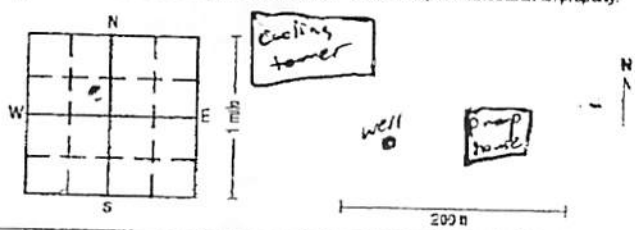
_____ mi. N/S and 1/4 mi. E/W of intersection of Hwy 169 and 160 ave

NE 1/4 of the SE 1/4 of the NW 1/4 of Sec 22 TWP 99 RNG 28 E/W

GPS Coordinates (NAD83 datum only) decimal degrees:

_____ N. Latitude _____ 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) _____

## Formation log

| From | To | Color | Hardness | Formation description |
|---|---|---|---|---|
| 0 | 3 | black | S | topsoil |
| 3 | 14 | yel | S | clay |
| 14 | 66 | blue | S | clay |
| 66 | 69 | colored | S | gravel |
| 69 | 71 | white | S | shale |
| 71 | 80 | blue gray | M-MH | shale & limestone |
| 80 | 83 | brown | MH | limestone |
| 83 | 90 | gray brown | MH | dolomite |
| 90 | 92 | blue | S | shale |
| 92 | 96 | brown gray | MH | dolomite |
| 96 | 99 | white | MH | limestone |
| 99 | 101 | brown | H | chert |
| 101 | 111 | gray white | MH-S | shale & limestone |
| 111 | 113 | blue | S | shale |
| 113 | 115 | brown white | MH | dolomite |

Remarks (including depth of lost drilling fluids, materials, or tools) use additional sheets if needed

## Well use

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

## Drill method

☑ rotary ☐ auger ☐ cable other _____

## Hole size

9 7/8 inch from 0 ft to 125 ft
5 5/8 inch from 125 ft to 240 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

Drive shoe (yes / no) Pitless adapter (yes / no)

| Size (OD) | Type / Wt | Depth top | Depth bottom | Amount (length) |
|---|---|---|---|---|
| 6" | steel | +1 | 125 | 126 |
| | | | | |
| | | | | |
| | | | | |

## Perforated or slotted casing? (yes / no)

Perforated / slotted from _____ ft to _____ ft
Perforated / slotted from _____ ft to _____ ft

## Casing grouted? (yes / no)

Placement method pumped

| Type | Depth top | Depth bottom | Amount (vol/wt) |
|---|---|---|---|
| neat cement | 0 | 125 | 275 gal |
| | | | |

## 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 _____
(pumped, airlifted, bailed) for 1 hrs at 60 GPM

## Pump installed? (yes / no)

Date ___ / ___ / ___
Installer's name _____
Type of pump _____ Depth to intake _____ ft
Pump diameter _____ Rated capacity _____ GPM

RECEIVED
AUG 28 2012
By _____

## Water information

Aquifer: ☐ sand / gravel ☑ limestone ☑ sandstone
Main water-supply zone from 151 ft to 204 ft ☐ seepage well
Static water level 126 ft (below / above) GL; ☑ tape ☐ airline ☐ E-line ☐ estimate
Pumping water level 40 ft below GL; ☐ tape ☑ airline ☐ E-line ☐ estimate
At yield of 50 GPM; ☐ orifice ☐ volumetric ☑ estimate for 1 hours
Measurements taken at 2:00 (AM / PM) Date 10 / 4 / 11

## Water quality test? (yes / no)

Date tested ___ / ___ / ___
Tested by _____

Contractor Schumacher Well
Address 2201 S Dodge Ft Algona
Driller Jeremy Watson Certification no. 6087

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

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

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109 Trowbridge Hall, Iowa City, IA 52242-1319 PH (319) 335-1575

# WELL RECORD 74956

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## Site identification

Property Owner _____ Other ID _____
Address _____
Tenant _____
Well Depth _____ ft. Date completed ____ / ____ / ____

## Location

County _____

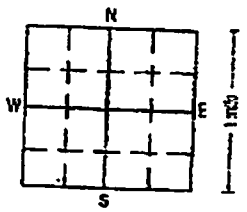
____ mi. N/S and ____ mi. E/W of intersection of _____ and _____

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

GPS Coordinates (NAD83 datum only) decimal degrees:

_____ N. Latitude _____ W. Longitude

Show exact location of well in section grid with a dot (•) Sketch map of well location on property.




☐ upland ☐ middle ☐ valley ☐ level surface Elevation (if known) _____

## Formation log

| From | To | Color | Hardness | Formation description |
|---|---|---|---|---|
| 115 | 116 | white | MH-S | limestone stripe shale |
| 116 | 122 | gray white | MH | limestone & dolomite |
| 122 | 140 | white | H | limestone |
| 140 | | gray | S | little strip shale |
| 140 | 144 | brown gray | M-AH | dolomite |
| 144 | 151 | tan white | MH | limestone |
| 151 | 159 | gray tan | MH | dolomite some water |
| 159 | 170 | white | MH | dolomite |
| 170 | 188 | gray brown | softer | fractured dolomite |
| 188 | 189 | brown | MH | limestone |
| 189 | 204 | brown | softer | dolomite some water |
| 204 | 209 | gray brown | MH | limestone |
| 209 | 218 | brown | softer | dolomite |
| 218 | 240 | brown | MH | limestone |
| | | | | use additional sheets as needed |

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

## Well use

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

## Drill method

☐ rotary ☐ auger ☐ cable other _____

## Hole size

____ inch from 0 ft to ____ ft
____ inch from ____ ft to ____ 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

Drive shoe (yes / no) Pitless adapter (yes / no)

| Size (ID/OD) | Type / Wt | Depth top | Depth bottom | Amount (length) |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

## Perforated or slotted casing? (yes / no)

Perforated / slotted from _____ ft to _____ ft
Perforated / slotted from _____ ft to _____ ft

## Casing grouted? (yes / no)

Placement method _____

| Type | Depth top | Depth bottom | Amount (vol/wt) |
|---|---|---|---|
| | | | |
| | | | |

## 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)

By(ies) _____
(pumped, airlifted, bailed) for _____ hrs at _____ 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 _____ ft to _____ ft ☐ seepage well
Static water level _____ ft (below / above) GL: ☐ tape ☐ airline ☐ E-line ☐ estimate
Pumping water level _____ ft below GL: ☐ tape ☐ airline ☐ E-line ☐ estimate
At yield of _____ GPM: ☐ orifice ☐ volumetric ☐ estimate for _____ hours
Measurements taken at ____ : ____ (AM / PM) Date ____ / ____ / ____

## Water quality test? (yes / no)

Date tested ____ / ____ / ____
Tested by _____

Contractor _____
Address _____
Driller _____ Certification no. _____

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

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