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

WELL RECORD

w#80327

PWTS Well No. 1374086

PWTS Permit No. 2015-031W

County Permit No. _____

Site identification

Property Owner City of Rinard Other ID _____

Address _____

Tenant _____

Well Depth 278.5 ft Date completed 7 / 28 / 15

Location

County Calhoun

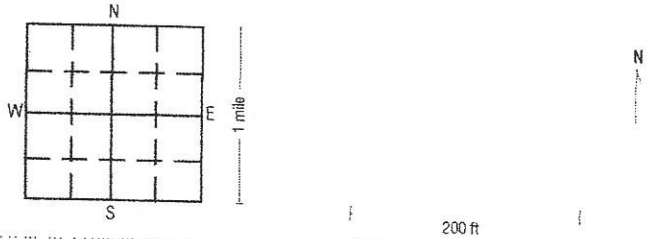
_____ mi. N/S and _____ mi. E/W of intersection of _____ and _____

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

GPS Coordinates (NAD83 datum only) decimal degrees:

42° 20' 28.1" N. Latitude 094 29' 19.7" 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
				See Attached

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

14.75 inch from 0 ft to 266 ft

9 7/8 inch from 266 ft to 295 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)
10"	Steel	0	266	

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)
Cement	0'	266'	7 yds

Well screen? (yes / no)

Diameter	Slot size	Depth top	Depth bottom	Length	Material
5"	0.015	266	278.5	20	
	0.___				

Bottom capped (yes / no) with ½" SS Welded plate

Seals / Packers (yes / no) kind hole plug depth 1 ft

Gravel packed (yes / no) from _____ ft to _____ ft

type 10 Slot amount 900 ft

Well developed? (yes / no)

Explain _____

(pumped, airlifted, bailed) for _____ hrs at _____ GPM

Pump installed? (yes / no)

Date 7 / 16 / 15

Installer's name CPS

Type of pump Goulds Depth to intake _____ ft

Pump diameter 4" Rated capacity 52 GPM

Water information

Aquifer: ☒ sand / gravel ☐ limestone ☐ sandstone

Main water-supply zone from _____ ft to _____ ft ☐ seepage well

Static water level 135 ft (below / above) GL: ☐ tape ☐ airline ☐ E-line ☐ estimate

Pumping water level 142 ft below GL: ☐ tape ☐ airline ☐ E-line ☐ estimate

At yield of 52 GPM: ☐ orifice ☐ volumetric ☐ estimate for _____ hours

Measurements taken at _____ : _____ (AM / PM) Date ___ / ___ / ___

Water quality test? (yes / no)

Date tested 7 / 29 / 15

Tested by _____

Contractor Cahoy Pump

Address 24568 150th St., Sumner, IA

Driller Neal Brandenburg Certification no. 1610

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

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

w#80327

80327

DRILLER'S LOG

CLIENT: City of Rinard

WELL: 4

DATE STARTED: 03/23/15

DATE COMPLETED: 04/01/15

DRILLER/LIC.#: Darin Cahoy #1786

GPS: N42◦20'28.1" W094◦29'19.7"

ROD#	LENGTH	DEPTH	FORMATION DESCRIPTION	DEPTH STARTED	DEPTH ENDED
Hole Assy.	16'4"	13'4"	Top soil	0	3
1	20	33.4	Yellow clay	3	20
2	20	53.4	Yellow clay silty black sand	20	41
3	20	73.4	Till	41	60
4	20	93.4	Till with cobble seams of black sand	60	80
5	20	113.4	Till	80	91
6	20	133.4	Yellow till large black sand and medium sand	91	140
7	20	153.4	Gray shale sandstone seams	140	150
8	20	173.4	Till with large sand	150	155
9	20	193.1	Gray and red shale with medium sand seams	155	220
10	20	213.4	Sandstone with limestone and chirt and black shale	220	263
11	20	233.4	Fractured sandstone with some shale	263	265
12	20	253.4	Sandstone and flowing fine sand	265	284
13	20	273.4	Sandstone with limestone	284	291
14	20	285.0	Limestone with fracture at 292'	291	295
15	20	305.0			

w#80327

Cahoy

Well And Pump Service
Municipal • Industrial • Environmental

VIDEO INSPECTION LOG

24568 150th Street • Suite 200
Sumner, Iowa 50674
(563) 578-1130
(563) 578-1135 *Fax*

200 Grant Street
P.O. Box 72
Marne, Iowa 51552
(712) 781-2030
(712) 781-2032 *Fax*

Name	Rinard
Date Video Logged	07/14/15
Well Number	4
Drilled Depth	282'
Static Water Level	132.5'
Casing Dia. And ID	10"
Screen Dia. And ID	5"
Is there a Liner No	From: N/A To: N/A
Bottom Depth Inspected	278.5 bottom of screen
Rehab Contractor/ Client	CPS, Inc.
Project Manager/ Foreman	Tony Thein
Inspected By	Mark Claassen
Purpose of Inspection	General
Camera is at zero at how many inches below top of casing?	Lens is at 0.00 at approx. ground level

Depth in feet	Remarks or Observations
12.2	Joint
33.9	Casing joint
55.1	Casing joint
76.3	Casing joint
97.5	Casing joint
118.7	Casing joint
132.5	Static water level
140.0	Casing joint
161.2	Casing joint
182.4	Casing joint
203.6	Casing joint
224.8	Casing joint
246.1	Casing joint
254.8	Reduction from 10" to 5" screen "shelf"
260.2	Top of screen
278.5	Bottom of screen, stopped filming water too cloudy
	*Made 1st camera run without centralizers. Camera would not start down 5" reduction. Made 2nd run with centralizer got camera to go into 5" connection and screen. Got to bottom of screen, cloudy water made going deeper unproductive.

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WELL TEST DATA SHEET

CLIENT: Rinard

WELL: # 4

DATE: 7/28/15

TESTED BY: Rodney

PUMP MODEL: 406550 Centripro

AIRLINE LENGTH: 190'

DIAMETER: 10"

ORIFICE SIZE: 6x2

DEPTH OF WELL: 278.5'

MOTOR: Franklin 230v 1ph

STATIC WATER LEVEL: 124'

GENERATOR USED: Yes No __X__ GN1 GN2

BEGIN HOURS: _____ END HOURS: _____

STEP-RATE TEST

CONSTANT RATE TEST

PRE-TREATMENT

POST –TREATMENT

MEASUREMENT TAKEN FROM THE TOP OF THE WELL CASING WHICH IS __4__ FEET FROM EXISTING GROUND/FLOOR LEVEL.