

WELL RECORD FORM

84479

PWTS No. or PWS No. 5715093

PWTS Permit No. _____

GEOSAM Well No. (IGS use only) _____

Site Identification

Property owner City of Cedar Rapids Other ID HCW-5

Address Seminole Valley Wellfield City Cedar Rapids

Tenant _____

Well depth 69 ft Date completed 11 / 19 / 2016

Drill Method Rotary Auger Cable Other Dug

Hole size

234 inch from 0 ft to 69 ft hole size continued _____ inch from _____ ft to _____ ft
 _____ inch from _____ ft to _____ ft _____ inch from _____ ft to _____ ft

Location

County Linn

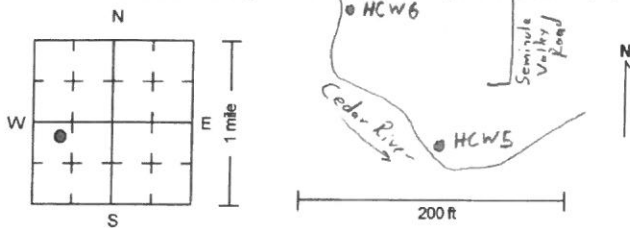
GPS coordinates (NAD83 datum)

41.9985050 Latitude 91.7309490 Longitude

Decimal Degrees Degrees, Decimal Minutes Degrees, Minutes, Seconds

NE 1/4 of the NW 1/4 of the SW 1/4 of Sec 13 TWP 83 RNG 8 E W

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



Casing or Loop Pipe

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

Size (in)	Material	Depth Top	Depth Bottom	Perforated	Slotted	Screen
228"	concrete caisson	+21.3	69	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> slot size _____
12"	1220' of 304 SS	61	62	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> slot size _____
	Horizontal Screen			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> slot size <u>40</u>
	40 to 150 slot			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> slot size <u>150</u>

Casing Grout

Placement method Gravity/Pumped

Type	Depth Top	Depth Bottom	Amount (volwt)
Bentonite Grout Gravity	3	5	
Bentonite Fluid Pump	5	64	

Formation Log

From	To	Color	Hardness	Formation description
0	1	Brown	loose	Fine Silty Sand
1	6	L. Brown	loose	Fine Sand
6	9	D Brown	loose	Fine Silty Sand
9	16	L. Brown	"	Fine-Medium Sand
16	20	Orange	"	Med-coarse Sand
20	27	L. Brown	"	Sand w/ 20% Gravel
27	30	L. Brown	"	Fine-Medium Sand
30	37	L. Brown	"	Sand w/ 20% Gravel
37	46	Brown	"	Fine-Medium Sand, 5% Gravel
46	69	Brown	"	Sand & Gravel (20-60%)
69		Gray	Dense	Weathered Limestone

(use additional sheets as needed)

Pump Installation

Date _____ / _____ / _____

Type of pump By Others Depth to intake _____ ft

Pump diameter _____ in Rated capacity _____ GPM

Water Information

Date 11 / 15 / 2016

Use + for above GL measurements.

Static Water Level	Pumping Water Level	Yield	Duration
<u>7</u> ft	<u>24</u> ft	<u>11500</u> GPM	<u>72.00</u> hrs

Water level measurement: Sonic Tape Airline E-line Estimate

Water yield measurement: Orifice Volumetric Estimate

Main water-supply zone from 7 ft to 69 ft below GL

Well Development

Physical explain: BoreBlast

Chemical explain: _____

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

This is a Horizontal Collector Well, 16' x 19' caisson w/ 1220 feet of screen in 7 horizontal laterals. See attached drawing.

Well Use

Domestic Public supply Livestock
 Heat pump Commercial Irrigation
 # of borehole(s) _____ Monitoring Other _____

Contractor

Company Layne - Ranney Collector Wells

Address 6360 Huntley Road, Columbus, Ohio 43229

Driller Andrew J. Smith Certification no. 5171



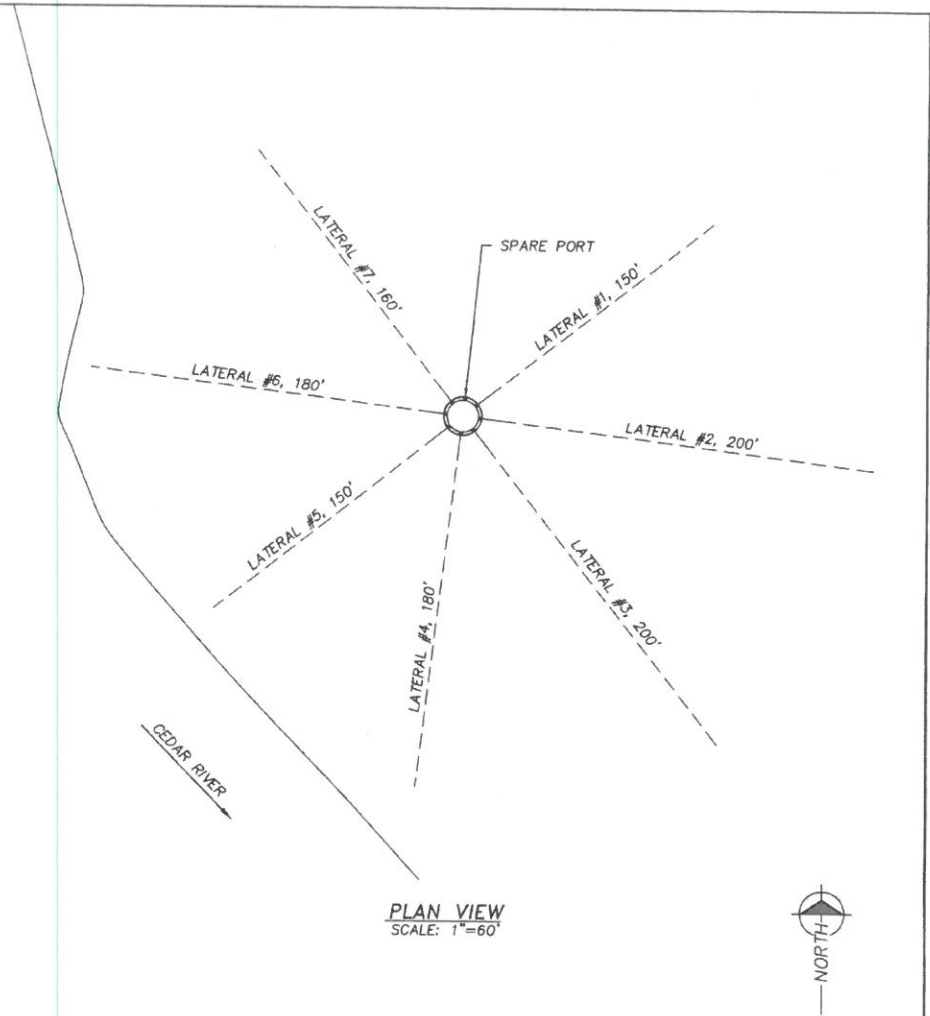
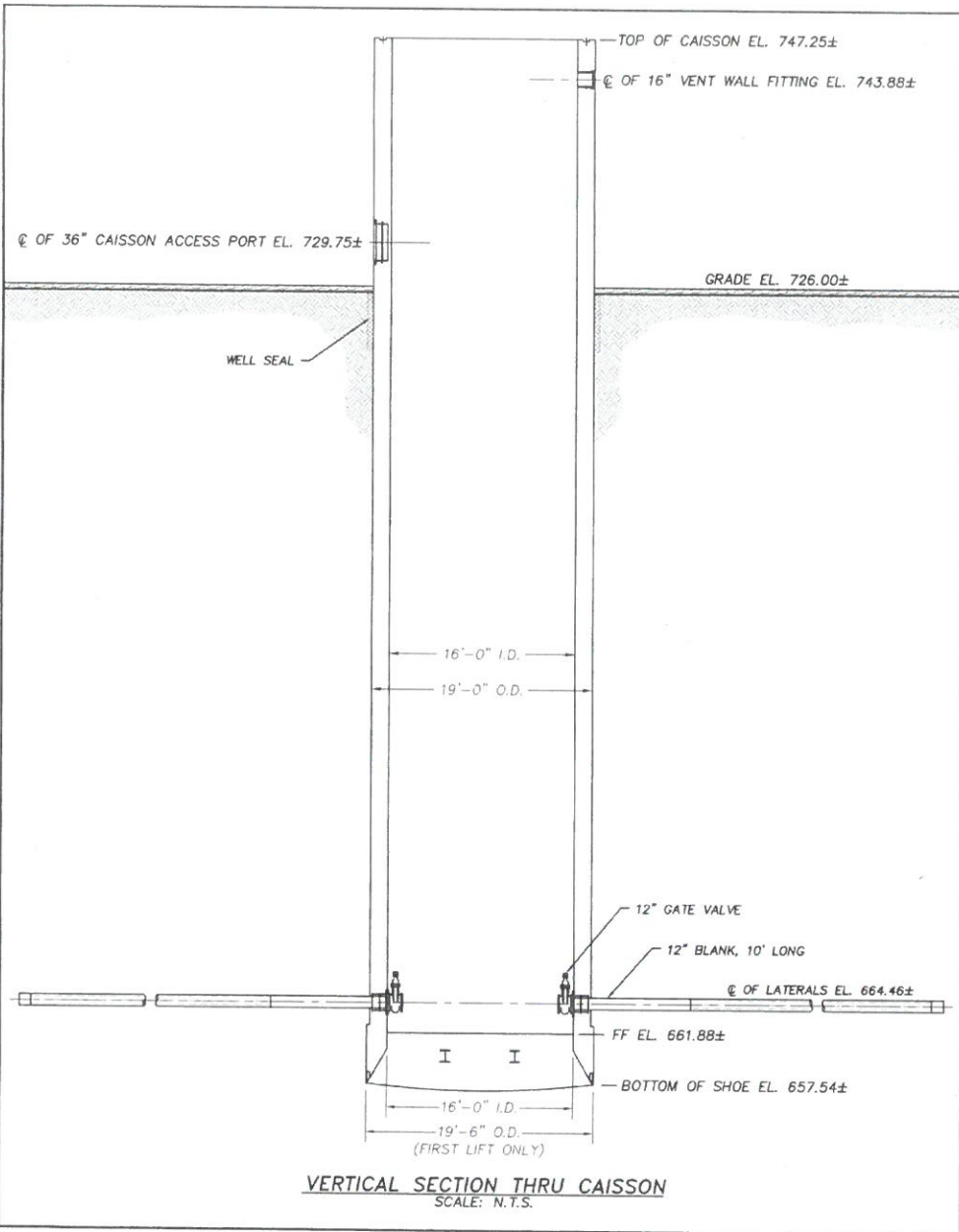
Mail form to **Iowa Geological Survey**: 100 Oakdale IGS, Iowa City, IA 52242-1304


Or click here to e-mail form to: IHR-IGS-WellRecords@uiowa.edu

Make copies for well contractor, customer, and county health department

THE UNIVERSITY OF IOWA

12-16-2016




Ranney Collector Wells
 6360 HUNTLEY ROAD
 COLUMBUS, OHIO 43229
 (614) 888-9263 / FAX: (614) 888-9208

SECTION & PLAN VIEW OF COLLECTOR WELL NO. 5 HORIZONTAL COLLECTOR WELL NO. 5 CITY OF CEDAR RAPIDS, IOWA			
FILE NAME:	37706-06	DATE:	12/1/16
PROJECT #:	37706	SCALE:	1"=60'
			FIGURE 1