89461

#17

WELL RECORD FORM

PWSID# or PWTS No. IA4848001 | PWTS Permit No. | GeoSam WNumber (IGS use only)

Site Identification

Property owner Amana Society Other ID #17

Address 708 49th Ave City Amana

Tenant

Well depth 32 ft Date completed 6/15/18

Location

County Iowa

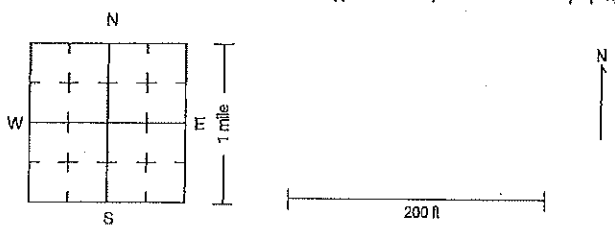
GPS coordinates (NAD83 datum)

41° 47.716N Latitude 91° 54.724W Longitude

☐ Decimal Degrees ☐ Degrees, Decimal Minutes ☐ Degrees, Minutes, Seconds

____ 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.



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 ☒ Public supply ☐ Livestock

☐ Heat pump ☐ Commercial ☐ Irrigation

# of borehole(s) ____ ☐ Monitoring ☐ Other ____

Drill Method

☐ Rotary ☒ Auger ☐ Cable ☐ Other Bucket Auger

Hole size

24 inch from 0 ft to 32 ft

____ inch from ____ ft to ____ ft

hole size continued

____ inch from ____ ft to ____ ft

____ inch from ____ ft to ____ ft

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
10	Stainless	21'	31'	☐	☒	☒ slot size .045
				☐	☐	☐ slot size
				☐	☐	☐ slot size
				☐	☐	☐ slot size
				☐	☐	☐ slot size

☒ Gravel packed amount ____ variety ____

☐ Seals/packers type ____

☐ Bottom capped with ____

Casing Grout

Placement method tremie

Type	Depth Top	Depth Bottom	Amount (vol/wt)
heat cement grout	1'	14'	50 sacks

Pump Installation

Date 7/12/18

Type of pump Grundfos Depth to intake ____ ft

Pump diameter 6 in Rated capacity 75 GPM

Water Information

Date 7/12/18

Static Water Level	Pumping Water Level	Yield	Duration
10 ft	18 ft	85 GPM	24 hrs

Water level measurement: ☐ Sonic ☐ Tape ☐ Airline ☒ E-line ☐ Estimate

Water yield measurement: ☐ Orifice ☐ Volumetric ☐ Estimate

Main water-supply zone from 21 ft to 31 ft below GL

Well Development

☐ Physical explain: ____

☒ Chemical explain: HTH-surge

Contractor

Company Cahay Pump

Address 24568 150th St. Sumner IA

Driller Weilage Certification no. 5742

IGS IHRB (Iowa Highway Research Board) THE UNIVERSITY OF IOWA

Mail form to Iowa Department of Natural Resources: 502 E. 9th St., Des Moines, IA 50319-0034

Or click here to e-mail form to: well.records@dnr.iowa.gov

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

DNR

Rev. 2017 DNR Form 542-8170

89461

The Cahoy Group

CAHOY PUMP SERVICE

SUMNER, IA
Corporate Office
563-578-1130

MARNE, IA
712-781-2030

DRILLER'S LOG

CLIENT: Middle Amana

WELL: 17

DATE STARTED: 06/15/2018

DATE COMPLETED: 06/15/2018

DRILLER/LIC.#: Daryl Weilage

County: Iowa

GPS: 41° 47.716N 91° 54.724W

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

___ ¼ of the ____ ¼ of the ____ ¼ of _____ Sec _____ TWP _____ RNG ____ E/W

ROD#	LENGTH	DEPTH	FORMATION DESCRIPTION	DEPTH STARTED	DEPTH ENDED
24" bucket 5'			Top soil	0	1.5'
30" bucket 0-5'			Silty brown clay	1.5'	5'
			Lean brown clay w/slight sand	5'	13.5'
			Fine to medium gray sand	13.5'	15'
			Fine to coarse brown sand	15'	31.5'
			Gray shale and cobbles	31.5'	
Screen & casing					
Screen	10' 3"				
Casing	3'				
Casing	21'1"				
Total	33'4"				

Form revised 7/11/2017

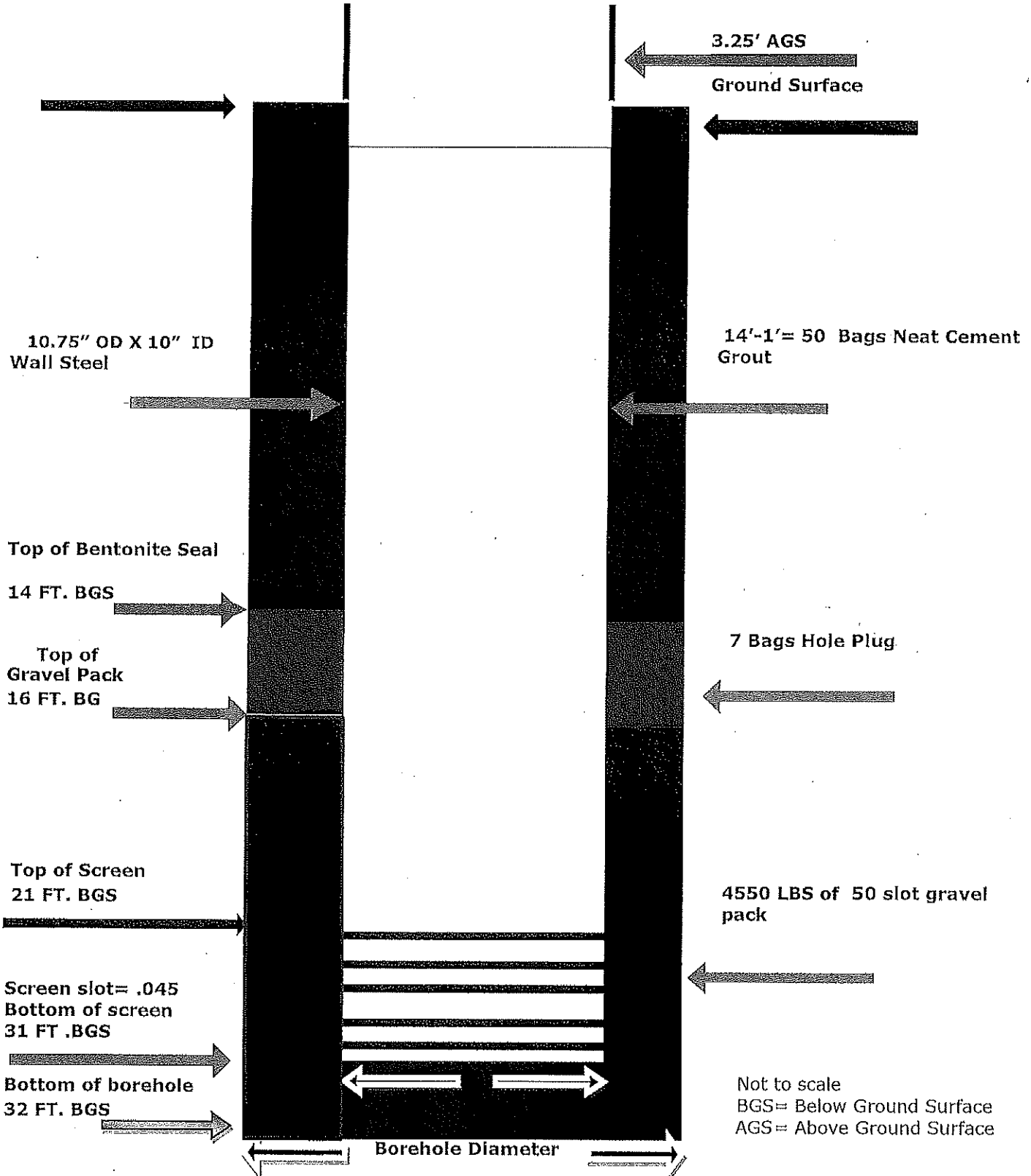
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CAHOY WELL AND PUMP SERVICE
24568 150TH ST. STE. 200
SUMNER, IA 50674

OWNER: Middle Amana
WELL: 17
DATE: 6/15/18
GPS: 41° 47.716N 91° 54.724W

563-578-1130 SUMNER, IA
563-578-1135 FAX
712-781-2030 MARNE, IA
712-781-2032 FAX

WELL CONSTRUCTION DETAIL



Not to scale
BGS= Below Ground Surface
AGS= Above Ground Surface

Form revision date: 07/11/2017