WELL RECORD FORM

PWTS No. or PWS No. 9774002 | Project #: W2015-0335 | PWTS Permit No. 2015-0548W | GEOSAM Well No. (IGS use only) 83615

Site Identification

Property owner: Ag Processing, Inc. Other ID: Well #7

Address: 2753 Port Neal Circle City: Sgt. Bluff, IA

Tenant: Ag Processing, Inc.

Well depth: 160 ft Date completed: 10 / 7 / 2016

Drill Method

☐ Rotary ☐ Auger ☐ Cable ☑ Other: Reverse

Hole size

42	inch	from 0	ft to 40 ft		inch	from	ft to ft
32	inch	from 40	ft to 165 ft		inch	from	ft to ft

hole size continued

Location

County: Woodbury

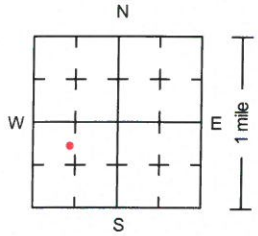
GPS coordinates (NAD83 datum)

42.3047790 Latitude -96.3657040 Longitude

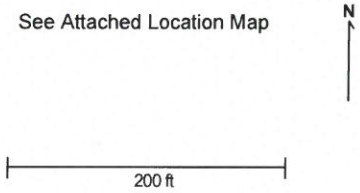
☑ Decimal Degrees ☐ Degrees, Decimal Minutes ☐ Degrees, Minutes, Seconds

SW 1/4 of the NW 1/4 of the SW 1/4 of Sec 31 TWP 87 RNG 47 E/(W)

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



See Attached Location Map



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
36	Steel Surf. Casing	0	40'	☐	☐	☐ slot size
18	SST Casing	+2.5'	100'	☐	☐	☐ slot size
18	SST Screen	100'	160'	☐	☐	☑ slot size 0.090
				☐	☐	☐ slot size
				☐	☐	☐ slot size

Casing Grout

Placement method: Pressure Tremie

Type	Depth Top	Depth Bottom	Amount (vol/wt)
Cement Grout	0	75'	12 cyd
☑ Gravel packed variety RF #90	80	165	20 tons
☐ Seals/packers (Bent. Chip Seal)	75	80	30 bags

Formation Log

From	To	Color	Hardness	Formation description
0	5	Blk.	Soft	Topsoil
5	23	Gray	Med	Clay
23	55	Gray		Fine-med sand w/clay
55	57	Gray	Med	Clay
57	100	Gray		Fine-med-coarse sand w/coal
100	156	Gray		Fine-med-coarse sand w/gravel
156	165	Gray	Hard	Fine-med-coarse sand w/gravel
165		Gray		Shale
				(use additional sheets as needed)

Pump Installation

Date 10 / 7 / 2016

Type of pump: Vertical Turbine Depth to intake: 95 ft

Pump diameter: 11 in Rated capacity: 650 GPM

Water Information

Date 09 / 08 / 2016

Use + for above GL measurements.

Static Water Level	Pumping Water Level	Yield	Duration
23 ft	26 ft	650 GPM	24.00 hrs

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

Water yield measurement: ☑ Orifice ☐ Volumetric ☐ Estimate

Main water-supply zone from 100 ft to 160 ft below GL

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

Well Development

☑ Physical explain: Surge block, bailer, rawhide surge pumping

☐ Chemical explain:

Well Use

☐ Domestic ☑ Public supply ☐ Livestock

☐ Heat pump ☐ Commercial ☐ Irrigation

# of borehole(s) ____ ☐ Monitoring ☑ Other

Contractor

Company: Layne Christensen Company

Address: 3150 SE Gateway Drive, Suite B, Grimes, IA 50111

Driller: Mark Leslie Certification no.: 3684

IGS IIHR Hydroscience & Engineering

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

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

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

THE UNIVERSITY OF IOWA

11-07-2016

Rev. 2014

Google earth

feet 1000

meters 500