

WELL RECORD

6 0575

Permit No. 2005-095W

Site identification

Property Owner City of Sergeant Bluff Well Number #6

Address PO Box 703

401 4th St.

Sergeant Bluff, IA 51054-0703

Well Depth 260 ft Date Completed 12-11-2004

Location

County Woodbury

(mi. N/S and mi. E/W of intersection)

($\frac{1}{4}$ of $\frac{1}{4}$ of $\frac{1}{4}$ of $\frac{1}{4}$ of Sec-Twp-Rng E/W)

NW SW NW SW 32-T88N-R47W

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

See attached

☐ upland ☐ hillside ☐ valley Elevation (if known)

Formation Log

From	To	Color	Formation description
11	46		Coarse sand
16	51		Fine to medium sand
51	66		Coarse sand to medium gravel
66	71		Fine gravel
71	81		Fine sand
81	91		Coarse sand to medium gravel
91	96		Medium sand w/ tan clay stringers
96	116		Medium to coarse sand
116	121		Sand w/ limestone stringers
121	141		Medium to coarse sand
141	156		Coarse sand
156	166		Fine to medium sand and fine gravel
166	181		Gray clay
181	201		Medium sand
201	221		Gray clay
221	231		Gray clay w/ sandstone stringers
231	266		Sandstone w/ clay stringers

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

Well use

☐ Domestic ☒ Municipal ☐ Commercial
☐ Livestock ☐ Public supply ☐ Monitoring
☐ Test Well ☐ Irrigation ☐ Other

(explain)

Drill method

☐ rotary ☐ auger ☐ cable ☒ other rotary

Hole size

34 inch from 0 ft to 260 ft
 inch from ft to 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)
15.25" / 16.00"	Carbon	+2.0'	180.0'	182.0'
15.25" / 16.00"	Carbon	200.0'	235.0'	35.0'

Perforated or slotted casing? (yes / no)

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

Casing grouted? (yes /no)

Placement method tremie

Type	Depth top	Depth bottom	Amount (vol/wt)
Cement grout	10.0'	139.0'	16 yds.

Well screen? (yes /no)

Diameter	Slot size	Depth top	Depth bottom	Length	Material
16.00"	.040	180.0'	200.0'	20.0'	SST
16.00"	.020	235.0'	260.0'	25.0'	SST

Bottom capped? (yes/-no)

With SST plate

Seals / Packers (yes/-no)

Kind Depth ft

Gravel packed (yes /no)

From 160.0 ft to 260.0 ft

Type "O" & "OO" Amount 36 ton

Well developed? (yes /no)

Explain Surged and bailed; airlifted

(pumped, airlifted, bailed) for 8 hrs at 400 GPM

Pump installed? (yes /no)

Date 03-25-2005

Installer's name Jesus Guevara

Type of pump submersible Depth to intake 116 ft

Pump diameter 10 Rated capacity 400 GPM

Water information

Aquifer: ☒ sand / gravel ☐ limestone ☐ sandstone

Main water-supply zone from 180 ft to 260 ft ☐ seepage well

Static water level 20 ft (below /above) GL; ☒ tape ☐ airline ☐ E-line ☐ estimate

Pumping water level 35.75 ft below GL; ☒ tape ☐ airline ☐ E-line ☐ estimate

At yield of 603 GPM; ☒ orifice ☐ volumetric ☐ estimate

Measurements taken at 24 hr. AM / PM Date 12-16-2004

Water quality test? (yes /no)

Date tested 01-20-2005

Tested by University of Iowa Hygienic Laboratory

Contractor Layne-Western

Address PO Box 597

4601 N 252nd St.

Valley, NE 68064-0597

Driller Duane Trask

Certificate No. 5509