

Site identification

Property Owner City of Sgt. Bluff Other ID Well #7
Address 401 4th Street, Sgt. Bluff, IA 51054
Tenant City of Sgt. Bluff
Well Depth 275 ft Date completed 06 / 03 / 10

Location

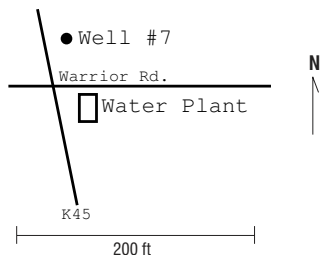
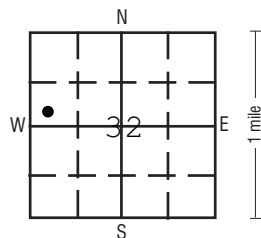
County Woodbury

1/16 mi N and 1/32 mi E of intersection of Warrior Rd. and K45
NW 1/4 of the SW 1/4 of the SW 1/4 of Sec 32 TWP 88 RNG 47 E
W

GPS Coordinates (NAD83 datum only) decimal degrees:

42.394040 N. Latitude -96.349104 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
0	1	Black		Topsoil
1	7	Gray		Clay
7	13	Tan		Clay w/fine sand
13	30			Fine sand
30	43			Fine to medium sand
43	50			Fine to coarse sand
50	100			Fine-coarse sand w/med.
100	118			Fine sand w/coarse gravel
118	130			Fine-med sand w/gravel
130	150			Fine sand to med gravel
150	164			Fine-med sand w/clay layers
164	170			Fine-med sand w/gray clay
170	225			Fine-medium sand
225	230			Fine-med sand w/gray clay

(CONTINUED ON PAGE 2) use additional sheets as needed

Remarks

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

Well use

- ☐ Domestic ☒ Heat pump ☐ Commercial
☐ Livestock ☐ Municipal ☐ Monitoring
☐ Test well ☐ Public supply ☐ Other
☐ Irrigation

Drill method

☐ rotary ☐ auger ☐ cable other Reverse

Hole size

32 inch from 0 ft to 274 ft
_____ inch from _____ ft to _____ ft

hole size continued

_____ 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) (no)

Pitless adapter (yes/no) (yes)

Size (ID/OD)	Type / Wt	Depth top	Depth bottom	Amount (length)
16 "	SDR17 PVC	6 '	182 '	176 '
16 "	Sch. 40 SST	222 '	232 '	10 '
16 "	Sch. 40 SST	182 '	192 '	10 '

Perforated or slotted casing?

(yes/no) (no)

Perforated / slotted from _____ ft to _____ ft

Perforated / slotted from _____ ft to _____ ft

Casing grouted?

(yes/no) (yes)

Placement method Tremie

Type	Depth top	Depth bottom	Amount (vol/wt)
Cement Grout	10 '	54 '	7 cyd

Well screen?

(yes/no) (yes)

Diameter	Slot size	Depth top	Depth bottom	Length	Material
16 "	0.030 "	232 '	272 '	40 '	SST
16 "	0.030 "	192 '	222 '	30 '	SST

Bottom capped (yes/no) (yes) with SST Plate Attached

Seals / Packers (yes/no) (yes) kind Bentonite depth 54-56 ft

Gravel packed (yes/no) (yes) from 56 ft to 274 ft

type Northern Coarse "0 " amount 64 Tons
& Fill Sand

Well developed?

(yes/no) (yes)

Explain Surge block, bailer, rawhiding

pumped airlifted bailed for 12 hrs at 500+ GPM

Pump installed?

(yes/no) (yes)

Date 09 / 08 / 10

Installer's name Dooling/Carlisle

Type of pump Submersible Depth to intake 42 ft

Pump diameter 8 " Rated capacity 650 GPM

Water information

Aquifer: ☐ sand / gravel ☐ limestone ☒ sandstone

Main water-supply zone from 192 ft to 272 ft ☐ seepage well

Static water level 15.8 ft (below) (above) GL; ☐ tape ☐ airline ☒ E-line ☐ estimate

Pumping water level 29.0 ft below GL; ☐ tape ☐ airline ☒ E-line ☐ estimate

At yield of 1100 GPM; ☒ orifice ☐ volumetric ☐ estimate for 20 hours

Measurements taken at 1 : 00 (AM) (PM) Date 01 / 14 / 10

Water quality test?

(yes/no) (yes)

Date tested 06 / 03 / 10

Tested by ACS Labs - Sgt. Bluff, IA

Contractor Layne Christensen Company

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

Driller Mark Leslie Certification no. 3684

Received 9/19/12

[illegible]

75037

Well #7 Completion Detail
City of Sergeant Bluff, Iowa
June 14, 2010

