

WELL RECORD

Oct -

64318

Permit No. 2007-357W

Site identification PWSID 600744 WL 08
 Property Owner Lyons Sioux Well Number 7
 Address 1101 12 Ave Box 309 Rock Rapids, Iowa 51246
 Tenant _____
 Well Depth 38' ft Date completed 10/23/07

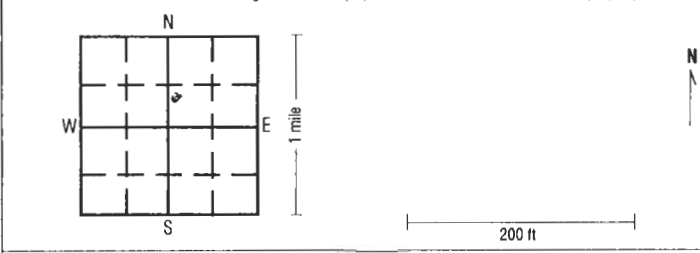
Drill method rotary auger cable other _____
Hole size
20 inch from 0 ft to 38 ft
 _____ inch from _____ ft to _____ ft
 _____ inch from _____ ft to _____ ft

Location County Sioux
 _____ mi. ^N and _____ mi. ^E of intersection of _____ and _____
 _____ 1/4 of the SW 1/4 of the NE 1/4 of Sec 12 TWP 97 RNG 44 E

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) |
|--------------|--------------|-----------|--------------|-----------------|
| <u>12</u> | <u>Steel</u> | <u>6</u> | <u>28</u> | <u>29</u> |
| | | | | |
| | | | | |



Perforated or slotted casing? (yes no)
 Perforated / slotted from _____ ft to _____ ft
 Perforated / slotted from _____ ft to _____ ft

upland hillside valley Elevation (if known) _____

Casing grouted? (yes no) Placement method Tremie

| Type | Depth Top | Depth bottom | Amount (vol/wt) |
|------------------|-----------|--------------|-----------------|
| <u>Bentonite</u> | <u>6</u> | <u>24</u> | <u>17'</u> |
| | | | |

Formation log

| From | To | Color | Hardness | Formation description |
|-----------|-----------|---------------|--------------|-----------------------|
| <u>0</u> | <u>6</u> | <u>Black</u> | | <u>Topsoil</u> |
| <u>6</u> | <u>12</u> | <u>yellow</u> | | <u>Sand</u> |
| <u>12</u> | <u>38</u> | <u>Gray</u> | <u>clean</u> | <u>Coarse Gravel</u> |
| | | | | |
| | | | | |
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| | | | | |

use additional sheets as needed

Well screen? (yes no)

| Diameter | Slot size | Depth Top | Depth Bottom | Length | Material |
|-----------|---------------|-----------|--------------|-----------|-----------|
| <u>12</u> | <u>0.080</u> | <u>28</u> | <u>38</u> | <u>10</u> | <u>SS</u> |
| | <u>0.____</u> | | | | |

Bottom capped (yes no) with SS PLATE
 Seals / Packers (yes no) kind _____ depth _____ ft
 Gravel packed (yes no) from 24 ft to 39 ft
1/4 x #10 type Muscovite amount 15'

Well developed? (yes no)
 Explain flushed
 (pumped, airlifted, bailed) for 2 DAYS hrs at 500 GPM.

Pump installed? (yes no) Date ____/____/____
 Installer's name _____
 Type of pump _____ Depth to intake _____ ft
 Pump diameter _____ Rated capacity _____ GPM

Water information Aquifer: sand / gravel limestone sandstone
 Main water-supply zone from 7 ft to 38 ft seepage well
 Static water level 7 ft (below / above) GL; tape airline E-line estimate
 Pumping water level 20'6" ft below GL; tape airline E-line estimate
 At yield of 500 GPM; orifice volumetric estimate
 Measurements taken at 10:00 AM Date Oct / 23 / 07

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

Water quality test? (yes no) Date tested Oct / 23 / 07
 Tested by Self + Mangold Lab

Well use
 Domestic Municipal Commercial
 Livestock Public supply Monitoring
 Test well Irrigation Other _____ (explain)

Contractor Lacey Well Drilling - James Lacey
 Address 47580 240th St Dell Rapids, SD 57232
 Driller Jim Lacey Certification no. 3580