WELL RECORD 63833

PWTS Permit No. 2007-145W

Iowa Department of Natural Resources – Geological Survey
109 Trowbridge Hall, Iowa City, IA 52242-1319 PH (319) 335-1575

PWTS Well No. _____

County Permit No. _____

Site identification

Property Owner City of Dunlap Other ID Well #4

Address 716 Iowa Avenue

Tenant City of Dunlap

Well Depth 102 ft Date completed 04 / 18 / 07

Location

County Harrison

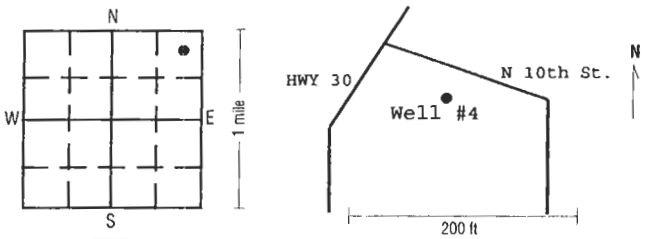
50' (N) (S) and 250' (E) (W) of intersection of HWY 30 and N 10th St.

SW 1/4 of the NE 1/4 of the NE 1/4 of Sec 3 TWP 81 RNG 41 (E) (W)

GPS Coordinates (NAD83 datum only) decimal degrees:

_____ . _____ N. Latitude _____ . _____ 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	42	Black		Clay
42	45	Brown		Silty Clay
45	60	Brown		Coarse sand & gravel
60	77	Tan		Clay
77	102	Tan		Sandstone
102	105	Gray		Shale

use additional sheets as needed

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

Well use

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

Drill method

Reverse ☒ rotary ☐ auger ☐ cable other _____

Hole size

26 inch from 0 ft to 105 ft

hole size continued

____ 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)
14" Steel	Sch. 40	6'	45'	48'
14" Steel	Sch. 40	60'	77'	17'

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)
Neat Cement	0'	15'	2 cyd

Well screen? (yes) (no)

Diameter	Slot size	Depth top	Depth bottom	Length	Material
14"	0.100	45'	60'	15'	SST
14"	0.035	77'	102'	25'	SST

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

Seals / Packers (yes) (no) kind Bentonite depth 15-20 ft

Gravel packed (yes) (no) from 20 ft to 105 ft

type Northern #3 Northern "0" amount 6 Tons 6 Tons

Well developed? (yes) (no)

Explain Surge block, bailer, rawhiding

(pumped), airlifted, (bailed) for 8 hrs at 100-400 GPM

Pump installed? (yes / no) Will install Date ____ / ____ / ____

Installer's name pump when received

Type of pump Submersible Depth to intake 90 ft

Pump diameter 7" Rated capacity 250 GPM

Water information

Aquifer: ☒ sand / gravel ☐ limestone ☒ sandstone

Main water-supply zone from 45 ft to 102 ft ☐ seepage well

Static water level 24.3 ft (below) above) GL; ☐ tape ☐ airline ☒ E-line ☐ estimate

Pumping water level 36.4 ft below GL; ☐ tape ☐ airline ☒ E-line ☐ estimate

At yield of 375 GPM; ☒ orifice ☐ volumetric ☐ estimate for 24 hours

Measurements taken at 2 : 00 (AM) (PM) Date 05 / 11 / 07

Water quality test? (yes) (no) Date tested ____ / ____ / ____

Tested by Iowa Hygienic Lab. - will sample w/perm. pump

Contractor Layne-Western

Address 5600 Gateway Drive, Suite B, Grimes, IA

Driller Duane Trask Certification no. 5509

Send original form to: **Iowa Department of Natural Resources – Geological Survey**

Make photocopies for: **Well Contractor, Customer, and County Health Department**