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

WELL RECORD

55601

Permit No. 2001-235W

Site identification

Property Owner: City of LeMars Well Number: 10
Address: 40 Central Ave. SE, P.O. Box 1130
Tenant: Le Mars, IA 51031
Well Depth: 355 ft Date completed: 1 / 11 / 02

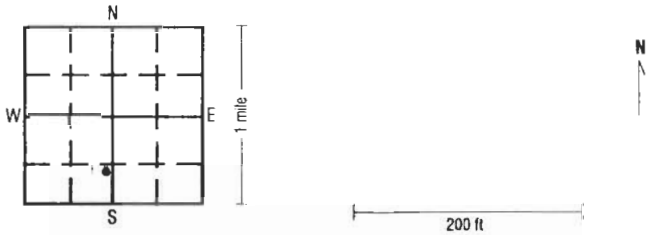
Location

County: Plymouth

.25 mi. (N) S and .1 mi (E) W of intersection of 21st St. and Industrial Rd

NE 1/4 of the SE 1/4 of the SW 1/4 of Sec 20 TWP 92 RNG 45 (E) W

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



☐ upland ☐ hillside ☐ valley Elevation (if known)

Formation log

From	To	Color	Hardness	Formation description
0	65			Fine to medium sand
65	110			Gray clay
110	142			Silty to sandy clay
142	145.5			Limestone
145.5	154			Gray clay
154	158			Limestone
158	225			Gray clay
225	355			Fine Sandstone

use additional sheets as needed

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 Reverse

Hole size

42 inch from 0 ft to 230 ft
36 inch from 230 ft to 355 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) Pitless adapter (yes / no)

Size (ID/OD)	Type / Wt	Depth top	Depth bottom	Amount (length)
36		0	230	230
18		+4	245	249

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	215	42 yd³
Bentonite	215	225	2 yd³

Well screen? ((yes) / no)

Diameter	Slot size	Depth Top	Depth Bottom	Length	Material
18	0.020	245	355	110	S.S.
	0.___				

Bottom capped ((yes) / no) with S.S. Plate
Seals / Packers (yes / no) kind ____ depth ____ ft
Gravel packed ((yes) / no) from 355 ft to 225 ft
type Northern #0 amount 35 Ton

Well developed? ((yes) / no)

Explain: Double disk surge block
(pumped, airlifted, bailed) for 24 hrs at Various GPM.

Pump installed? ((yes) / no) Date 1 / 11 / 02

Installer's name: Dennis Mehr
Type of pump: Vertical Turbine Depth to intake: 245 ft
Pump diameter: 12 Rated capacity: 1200 GPM

Water information

Aquifer: ☐ sand / gravel ☐ limestone ☒ sandstone
Main water-supply zone from 245 ft to 355 ft ☐ seepage well
Static water level 115 ft ((below) / above) GL; ☒ tape ☐ airline ☐ E-line ☐ estimate
Pumping water level 185 ft below GL; ☒ tape ☐ airline ☐ E-line ☐ estimate
At yield of 1200 GPM; ☒ orifice ☐ volumetric ☐ estimate
Measurements taken at ____ : ____ (AM / PM) Date 1 / 30 / 02

Water quality test? ((yes) / no) Date tested 9 / 19 / 01

Tested by: Iowa Hygienic Lab

Contractor: Layne-Western
Address: 25450 Hwy 275 Valley, NE 68064
Driller: Ike Slayden Certification no. 40674

white copy – Iowa DNR, Geological Survey Bureau blue copy – Well Contractor pink copy – Customer yellow copy – County Health Officer

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