

WELL RECORD

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

PWTS Well No.:

PWTS Permit No.

County Permit No.

94640-

Site Identification

Property Owner LE MARS, CITY OF ID: WELL #14

Address 20763 LAKE AVENUE, LE MARS, IA 51031

Tenant

Well Depth: 390 ft Date Completed: 9/3/2020

Location County PLYMOUTH COUNTY IOWA

mi^N and mi^E of intersection of and

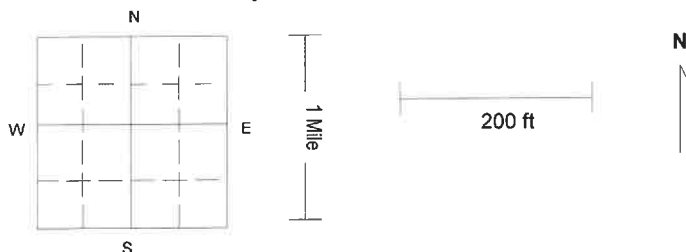
1/4 of the 1/4 of the 1/4 of Sec TW RN E W

GPS Coordinateds (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
				SEE ATTACHED FORMATIONS

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

*3' OF HOLE PLUG 232'-235' *188' PUMP LEVEL AT 1500 GPM
ADDITIONAL DRILLER: DILLON GINGERICH 10177

Well Use

- ☐ Domestic ☐ Heat Pump ☐ Commercial ☐ Municipal ☐ Monitoring ☐ Livestock ☒ Public Supply ☐ Other ☐ Test Well ☐ Irrigation

Drill Method ☒ rotary ☐ auger ☐ cable other

Hole Size

48 inch fro 0 ft to 60 ft 24 inch from 255 ft to 390 ft
36 inch fro 60 ft to 255 ft inch from ft to ft

Casing Placement Method: TREMMIE ☐ Drive shoe ☐ Plu

Size (ID/OD)	Type/ Wt	Depth top	Depth bottom	Amount (length)
42 OD	STEEL .500	0	60	60
18 OD	STEEL .500	+3	255	258
30 OD	STEEL .500	0	255	255

Perforated or Slotted Casing

☐ Perforated ☐ Slotted from ft to ft
☐ Perforated ☐ Slotted from ft to ft

Casing Grouted ☒ Grouted

Type	Depth top	Depth bottom	Amount (vol/wt)
NEAT CEMENT	0	60	180 CU/FT
NEAT CEMENT	0	255	1494 CU/FT

Well Screen ☒ Screen

Diameter	Slot size	Depth top	Depth bottom	Length	Material
18	0.2	255	390	135	AINLESS STE

Bottom Capped ☒ with STAINLESS

Packers ☐ kind depth ft
Seals ☐ kind depth ft
Gravel packed ☒ from 235 to 390 ft
type #20 RED FLINT amount 300

Well Developed ☒ Well Developed

Explain WITH AIR/SURGING

☐ pumped ☒ airlifted ☐ bailed for 48 hrs at 2000 GPM

Pump Installed ☐ Pump Installed Date

Type of Pump Depth to Intake ft
Pump diameter Rated Capacity GPM

Water information ☐ Sand/gravel ☐ Limestone ☒ Sandstone
Main Water-Supply Zone 1 from 255 ft to 390 ft ☐ Seepage Well
Main Water-Supply Zone 2 from ft to ft
Static water level 109 ft (below/above) GL ☐ tape ☐ airline ☒ E-line ☐ estimate
Pump water level 210 ft (below) GL; ☐ tape ☐ airline ☒ E-line ☐ estimate
At yield of 2000 GPM ☐ Orifice ☒ Volumetric ☐ Estimate for 48 hours
Measurement taken at 4:00:00 PM Date 9/2/2020

Water quality test? ☒ Date 9-1-20

Tested by Hygienic Lab

Contractor Name GINGERICH WELL PUMP SERVICE, LLC
Address 1331 HWY 1, KALONA, IA 52247

Driller KLINT GINGERICH Certification No. 2639

CITY OF LE MARS FORMATION LOG				
FROM	TO	COLOR	HARDNESS	FORMATION DESCRIPTION
0	15	BROWN	FIRM	SANDY CLAY
15	24	YELLOW	FIRM	SAND
24	54	BROWN	SOFT	LOOSE COARSE SAND (CAVING)
54	175	GRAY	FIRM	SHALE
175	177	GRAY	FIRM	LOOSE BROKEN SANDSTONE (SEVERE WATER LOSS)
177	205	GRAY	FIRM	SHALE
205	240	GRAY	FIRM	SHALE WITH FINE SS STREAKS
240	257	GRAY	FIRM	SHALE WITH MED SS STREAKS
257	260	YELLOW	FIRM	SANDSTONE
260	262	TAN	HARD	LIMESTONE
262	269	GRAY	FIRM	SHALE WITH SS STREAKS
269	287	GRAY	FIRM	FINE SANDSTONE
287	331	GRAY	FIRM	SANDSTONE
331	339	GRAY	FIRM	SHALE
339	382	TAN	FIRM	MED SANDSTONE
382	382.5	GRAY	FIRM	SHALE
382.5	389	TAN	FIRM	SANDSTONE
389	390	RED	FIRM	SHALE