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

WELL RECORD

620 18

Permit No. _____

Site identification Emmetsburg

Property Owner Municipal Utilities Well Number 7

Address 2021 Main St., Emmetsburg, Iowa 50536

Tenant _____

Well Depth 59 ft Date completed 01 / 05 / 06

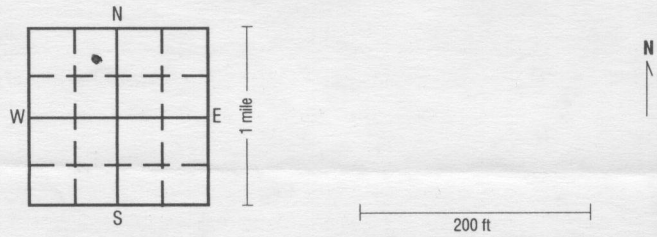
Location

County Palo Alto

____ mi. N/S and ____ mi. E/W of intersection of _____ and _____

____ 1/4 of the NE 1/4 of the NW 1/4 of Sec 25 TWP 96N RNG 33W 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'	2'			Topsoil
2'	10'			Medium-Coarse Sand
10'	50'			Coarse Sand + Gravel
50'	59'			Coarse Sand + Gravel w/Cobbles

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 _____

Hole size

48 inch from 0 ft to 59 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) Pitless adapter (yes / no)

Size (ID/OD)	Type / Wt	Depth top	Depth bottom	Amount (length)
16" O.D.	A53, 63 lb/ft	+6.5'	39'	45.5'

Perforated or slotted casing? (yes / no)

Perforated / slotted from _____ ft to _____ ft

Perforated / slotted from _____ ft to _____ ft

Casing grouted? (yes / no)

Placement method _____

Type	Depth Top	Depth bottom	Amount (vol/wt)
Bentonite	0	5	
Cement	5	22	

Well screen? (yes / no)

Diameter	Slot size	Depth Top	Depth Bottom	Length	Material
16"	0.080	39	59	20	#304 Stainless Steel
	0.___				

Bottom capped (yes / no) with Stainless Steel Plate

Seals / Packers (yes / no) kind _____ depth _____ ft

Gravel packed (yes / no) from 22 ft to 59' ft

type #3 Gravel Pack amount _____

Well developed? (yes / no)

Explain Airlifted, pumped

(pumped, airlifted, bailed) for 25 hrs at 600 GPM.

Pump installed? (yes / no)

Date 6 / 19 / 06

Installer's name Tony Thein

Type of pump Submersible Depth to intake 51 ft

Pump diameter 7" Rated capacity 500 GPM

Water information

Aquifer: ☒ sand / gravel ☐ limestone ☐ sandstone

Main water-supply zone from 39 ft to 59 ft ☐ seepage well

Static water level 11.3 ft (below / above) GL; ☐ tape ☐ airline ☒ E-line ☐ estimate

Pumping water level 19 ft below GL; ☐ tape ☐ airline ☒ E-line ☐ estimate

At yield of 600 GPM; ☒ orifice ☐ volumetric ☐ estimate

Measurements taken at 8:00 (AM / PM) Date 01 / 11 / 06

Water quality test? (yes / no)

Date tested ____ / ____ / ____

Tested by Iowa Hyg. Lab

Contractor Cahoy Well and Pump Service

Address 411 E. Main St., Fredericksburg, Iowa 50630

Driller Mark Evans Certification no. 2392

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