W 70514

WELL RECORD

Permit No. 14576

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

Site identification

Property Owner Iowa Ethanol Well Number Portable

Address Hanlontown, Iowa

Tenant

Well Depth 125 ft Date completed 9 / 19 / 03

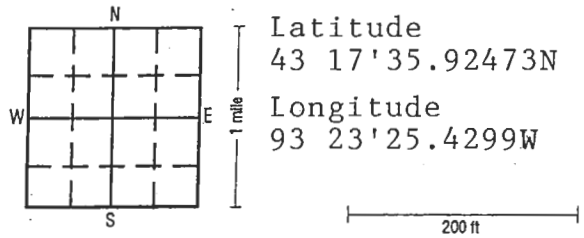
Location

County Worth

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

____ 1/4 of the ____ 1/4 of the ____ 1/4 of Sec ____ TWP ____ RNG ____ E/W

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



Latitude
43 17'35.92473N

Longitude
93 23'25.4299W

N

☒ upland ☐ hillside ☐ valley Elevation (if known) ____

Formation log

From	To	Color	Hardness	Formation description
0	38			Clay W/sand str.
38	56	Br		Limestone
56	57	Gr		Limestone
57	70	Gr		Shale
70	125	Gr		Limestone

use additional sheets as needed

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

Well use

☐ Domestic ☐ Livestock ☐ Test well
☐ Municipal ☐ Public supply ☐ Irrigation
☒ Commercial ☐ Monitoring ☐ Other ____ (explain)

Drill method

☒ rotary ☐ auger ☐ cable other ____

Hole size

18 inch from 0 ft to 73 ft
6 inch from 73 ft to 125 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)
8ID	.322	+2	45	47
6ID	.280	+2	73	75

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)
neat grout	5'	73'	128 sacks

Well screen? (yes / no)

Diameter	Slot size	Depth Top	Depth Bottom	Length	Material
	0.___				
	0.___				

Bottom capped (yes / no) with ____
Seals / Packers (yes / no) kind ____ depth ____ ft
Gravel packed (yes / no) from ____ ft to ____ ft
type ____ amount ____

Well developed? (yes / no)

Explain Airlifted & pumped
(pumped, airlifted, bailed) for 24 hrs at 45 GPM.

Pump installed? (yes / no)

Date 10 / 2 / 03
Installer's name Don Murphy
Type of pump Submersible Depth to intake 110' ft
Pump diameter 4" Rated capacity 20 GPM

Water information

Aquifer: ☐ sand / gravel ☒ limestone ☐ sandstone
Main water-supply zone from 82 ft to 125 ft ☐ seepage well
Static water level 29 ft (below / above) GL; ☐ tape ☒ airline ☐ E-line ☐ estimate
Pumping water level 45 ft below GL; ☐ tape ☒ airline ☐ E-line ☐ estimate
At yield of 22 GPM; ☐ orifice ☒ volumetric ☐ estimate
Measurements taken at ____ : ____ (AM / PM) Date ____ / ____ / ____

Water quality test? (yes / no)

Date tested 12 / 04 / 03
Tested by customer U of I Hygenic Lab

Contractor Northway Well & Pump Co.
Address 100 N. 6TH St. Waukee, IA.
Driller Don Murphy Certification no. 5178

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