

077796

WELL RECORD

PWTS Permit No. _____

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 Livermore Other ID _____

Address 501 4th St.

Tenant Livermore Ia. 50558

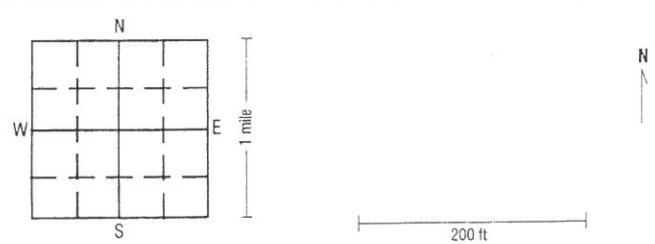
Well Depth 340 ft Date completed 7 / 16 / 14

Location County Humboldt

_____ mi. ^N and _____ mi. ^E of intersection of _____ and _____
 _____ 1/4 of the _____ 1/4 of the _____ 1/4 of Sec _____ TWP _____ RNG _____ ^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	3	black		Top soil
3	18	Yellow		Clay
18	24	grey		Shale
24	36			Sand
36	75	blue		Shale
75	83	white		Shale
83	121	white	Hard	limestone
121	125	blue	soft	Shale
125	175	White	Hard	limestone
175	265	Tan	Hard	limestone
265	340	Tan	med	Sandstone

use additional sheets as needed

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

Well use

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

Drill method rotary auger cable other _____

Hole size

12 3/4 inch from 0 ft to 115 ft hole size continued 5 1/2 inch from 140 ft to 340 ft

7 7/8 inch from 115 ft to 140 ft _____ inch from _____ ft to _____ ft

Record all depth measurements from ground level (GL). Use (+) for above GL measurements.

Casing Drive shoe no Pitless adapter (yes)

Size (OD)	Type / Wt	Depth top	Depth bottom	Amount (length)
8"	Steel 0.322	+2	115	117'
7"	Steel 0.322	85	140	55'

Perforated or slotted casing? (yes)

Perforated / slotted from _____ ft to _____ ft

Perforated / slotted from _____ ft to _____ ft

Casing grouted? (yes) no Placement method Pumped

Type	Depth top	Depth bottom	Amount (vol/wt)
Neat Cement	0	115	80 sacks

Well screen? (yes)

Diameter	Slot size	Depth top	Depth bottom	Length	Material
0. _____					
0. _____					

Bottom capped (yes) with _____

Seals / Packers (yes) kind _____ depth _____ ft

Gravel packed (yes) from _____ ft to _____ ft
 type _____ amount _____

Well developed? (yes) no

Explain Pumped

(pumped, airlifted, bailed) for 24 hrs at 125 GPM

Pump installed? (yes) no Date _____ / _____ / _____

Installer's name _____

Type of pump _____ Depth to intake _____ ft

Pump diameter _____ Rated capacity _____ GPM

Water information Aquifer: sand / gravel limestone sandstone

Main water-supply zone from 175 ft to 365 ft seepage well

Static water level 40 ft (below / above) GL; tape airline E-line estimate

Pumping water level 140 ft below GL; tape airline E-line estimate

At yield of 125 GPM; orifice volumetric estimate for 24 hours

Measurements taken at _____ : _____ (AM / PM) Date 7 / 16 / 14

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

Tested by _____

Contractor Bill Beemer well co. Inc

Address 2365 Vasse Ave Duncombe IA

Driller Matt Estlund Certification no. 2319