34311

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

WELL RECORD OD2-904

Site Identification

Property Owner City of Mallard Well Number 5

Address Mallard Iowa

Tenant

Well Depth 203 ft. Date Completed 10 / 25 / 93

Location

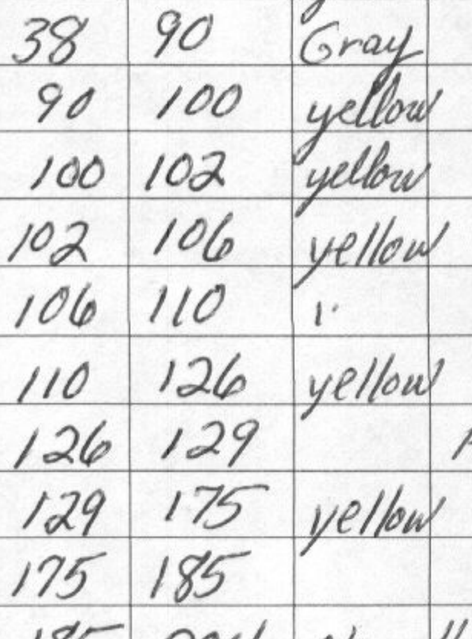
County PALO ALTO

Well is ____ mi. N/S and ____ mi. E/W of intersection of B63 and Hwy 4

SE 1/4 of the SE 1/4 of the SE 1/4 of Sec 24 TWP 94 RNG 33 E/W

NORTH OF WATER Plant

Show exact location of well in section grid with a dot (●).



Sketch Map of Well Location (Indicate North)

Formation Log

From	To	Color	Hardness	Description
0	3	Black		
3	7	yellow		Clay
7	10	Sand		Sand
10	14	Sand	(yellow)	Sand
14	30	Gray		Clay
30	38	yellow		Sand
38	90	Gray		clay
90	100	yellow		Clay
100	102	yellow		Sand
102	106	yellow		
106	110	"		Sand
110	126	yellow		
126	129		Fine	Sand
129	175	yellow		
175	185		Fine	Sand
185	204	clear yellow		Sand
204	210			
Note: samples to 275' JG elev ~ 1215				

use second sheet if needed

Remarks (Topographic position, elevation, development, disinfection, water quality, etc.)

20 lbs HTH in Silica Sand and in Well

Well Use

☐ Domestic ☑ Municipal ☐ Industrial
☐ Livestock ☐ Public Supply ☐ Monitoring
☐ Test Well ☐ Irrigation ☐ Other

Measuring Point (MP)

All depth measurements are made from:

☐ Ground Level ☐ KB/other 1 ft. (above/below) ground level

Hole Size

14½ inch from 0 ft. to 210 ft.

___ inch from ___ ft. to ___ ft.

continued

___ inch from ___ ft. to ___ ft.

___ inch from ___ ft. to ___ ft.

Casing

(ID / OD)? Drive shoe? (yes / no) Pitless adaptor? (yes / no)

Size	Type / Wt.	Depth Top	Depth Bottom	Amount (length)
8	200PSI PVC	5	183	178

Perforated or Slotted Casing? (yes / no)

Perforated / Slotted from ___ ft. to ___ ft.

Perforated / Slotted from ___ ft. to ___ ft.

Casing Grouted? (yes / no)

☐ Neat Cement ☑ Bentonite ☐ other

from 0 ft. to 155 ft.

from ___ ft. to ___ ft.

Well Screen? (yes / no)

Diameter	Slot size	Depth Top	Depth Bottom	Amount	Type / Mfg.
8	.018	183	203	20	S.S John

Gravel packed? (yes / no) from 155 ft. to 203 ft. #20 Silica Sand

Bottom capped? (yes / no) with Stainless Steel welded Plug

Seals / Packers? (yes / no) kind ___ depth ___ ft.

Water Information

Main water supply zone from 183 ft. to 203 ft.

Supply zone rock type (sand/gravel, limestone, sandstone)

Final water head (static water level) 37' ft. (below / above) the MP

Pumping water level 45 ft. below MP at yield of Airlifted 300 GPM

Water quality tested? (yes / no) Date tested 10 / 31 / 93

Tested by By City & DNR

Parameters tested for :

Test results Tested By Storm Lake Lab.

Pump

Pump installed? (yes / no) Date 10 / 31 / 93

Type of pump Subm. Manufacturer's name Grundfos

Depth to intake 60 ft. Tail pipe? (yes / no) length ___ ft.

Pump diameter 5 3/4 inches Rated capacity 140 GPM

Contractor's name Elbert Bros Well Registration no. CD8900150

Address Whittemore Ia 50598

Driller's name Rick Elbert Drill method (rotary / cable)

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