

Iowa Department of Natural Resources Geological Survey Bureau
109 Bowditch Hall, Iowa City, IA 52242-1319 PH (319) 336-1675

WELL RECORD

Permit No. _____

Site Identification
 Property Owner IOWA LAKE PARK Well Number _____
 Address R.R. ARMSTRONG, IA 50514
 Tenant _____
 Well Depth 243 ft Date completed 9 / 16 / 98

Location County EMMET
 _____ mi N and _____ mi W of intersection of _____ and _____
 _____ 1/4 of the _____ 1/4 of the _____ 1/4 of Sec. 12 TWP 10 RANG 31 E
 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	1	BLK	SOFT	DIRT
1	18	BRN	SOFT	CLAY
18	85	BLUE	MED	CLAY
85	95	BLUE	SOFT	CLAY & SAND
95	130	BLUE	MED	CLAY
130	135	YELL	SOFT	SAND-ROCK-CLAY
135	216	GRAY	HARD	CLAY
216	222	YELL	MED	SANDSTONE
222	236	GRAY	HARD	CLAY-FINE SAND
236	243	GRAY	MED	SANDSTONE

use additional sheets as needed

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

Well use
 Domestic Municipal Commercial
 livestock Public supply Monitoring
 test well Irrigation Other COUNTY PARK (caption)

Drill method rotary auger cable other _____
Hole size
9 inch from 0 ft to 243 ft
 _____ 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) _____ Piless adaptor (yes/no) _____

Size (NOD)	Type / WT	Depth top	Depth bottom	Amount (length)
5"	200	0	198	198
5"	250	198	238	40

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	232	20 BAGS

Well screen? (yes/no)
 Diameter _____ Slot size _____ Depth Top _____ Depth Bottom _____ Length _____ Material _____
 5" TEL 0.20 238 243 5' S/S
 0 _____
 Bottom capped yes / no with PLATE ON SCREEN
 Seals / Packers yes / no kind _____ depth _____ ft
 Gravel packed yes / no from 232 ft to 243 ft
 type PEAROCK amount _____

Well developed? yes / no
 Explain AIR LIFT - 50 GPM AT 145'
 (pumped, aerated, bailed) for _____ hrs at _____ 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 238 ft to 243 ft seepage well
 Static water level 70 ft (below/above) GL; tape wire E-line estimate
 Pumping water level 145 ft below GL. tape wire E-line estimate
 As yield of 50 GPM: orifice volumetric estimate
 Measurements taken at _____ (AM / PM) Date 9 / 16 / 98

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

Contractor JERRY'S WELL SERVICE INC.
 Address ARMSTRONG, IA 50514
 Driller BOB CHRISTENSEN Certification no. 40144