#37286

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

WELL RECORD

[redacted]

Permit No. _____

Site identification

Property Owner CITY OF ARMSTRONG Well Number 7

Address ARMSTRONG IA 50514

Tenant _____

Well Depth 135 ft Date Completed 12 / 20 / 95

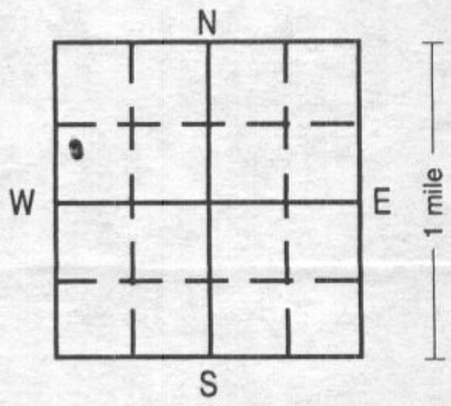
Location

County EMMET

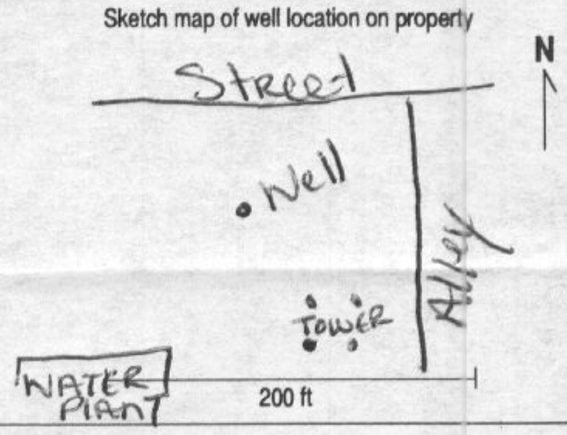
____ mi. N/S and ____ mi. E/W of intersection of _____ and _____

NW 1/4 of the SW 1/4 of the NW 1/4 of Sec 14 TWP 99 RNG 31 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	20	BRN	SOFT	CLAY
20	60	BLU	MED	CLAY
60	70	BLU	MED	CLAY & SOME ROCK
70	115	BLU	MED	CLAY
115	123	GRAY	MED	COURSE GRAVEL
123	127	GRAY	MED	FINE SAND
127	135	GRAY	MED	FINE SAND

use additional sheets as needed

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

Well use

☐ Domestic ☒ Municipal ☐ Industrial
☐ Livestock ☐ Public Supply ☐ Monitoring
☐ Test Well ☐ Irrigation ☐ Other _____ (explain)

Drill method

☒ rotary ☐ auger ☐ cable other _____

DNR APR 22 1996 GEOL. SURVEY

Hole size

14 inch from 0 ft to 135 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 adaptor (yes / no)

Size (ID/OD)	Type / Wt	Depth top	Depth bottom	Amount (length)
8"	200	0	115	115

Perforated or slotted casing? (yes / no)

Perforated / slotted from _____ ft to _____ ft

Perforated / slotted from _____ ft to _____ ft

Casing grouted? (yes / no)

Type	Depth Top	Depth Bottom	Amount
BENTONITE	0	105	32 BAGS

Well screen? (yes / no)

Diameter	Slot size	Depth Top	Depth Bottom	Length	Material
8"	80	115	122	7'	ss
8"	15	122	135	13'	ss

Bottom capped (yes / no) with PLATE ON SCREEN

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

Gravel packed (yes / no) from 105 ft to 135 ft

type PEA ROCK amount _____

Well developed? (yes / no)

Explain AIR LIFT & WATER JET

Pump installed? (yes / no) Date 01 / 16 / 96

Installer's name JERRY'S WELL SERVICE INC.

Type of pump GRUNFOS Depth to intake 105 ft

Pump diameter 6" Rated capacity 225 GPM

Water information

Aquifer: ☒ sand/gravel ☐ limestone ☐ sandstone

Main water-supply zone from 115 ft to 135 ft

Final water level (static water level) 86 ft (below / above) GL.

Pumping water level 88 ft below GL; ☐ tape ☐ airline ☐ E-line

At yield of 325 GPM; ☐ orifice ☒ volumetric ☐ estimate Date _____

Water quality test? (yes / no) Date tested 2 / 13 / 96

Tested by Scott Quastad

Test results <1 col/100 ml "satisfactory"

Contractor JERRY'S WELL SERVICE INC.

Address ARMSTRONG IA 50514

Driller BOB CHRISTENSEN **Certification no.** 40144

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