25832

IOWA GEOLOGICAL SURVEY
Iowa City, Iowa
WELL OR WATER SAMPLE DATA

Bottle No. _____

I.G.S. Well No. _____

TOWN Iowa City COUNTY Johnson

LOCATION SW NW SE NW sec. 22 T. 80 N., R. 6 W. Penn Twp.

OWNER OF WELL U.S. Corps Engineers Coralville Lake (West Overlook) WELL No. (1980)

USE OF WATER: Municipal supply( ); Private-domestic( ); Public drinking(X); Livestock( ); Industrial( ); School supply( ); Air Conditioning( ); Cooling( ); _____( ).

CONTRACTOR Ed Winslow DATE STARTED 12/79 DATE FINISHED 3/80

CASING OR CURBING DATA: (Show by diagram on opposite side of sheet the kind, length and depth of top and bottom of each size of pipe, the amount of overlaps, position of seals or packers, pipe performation and screens, etc.) see over

WELL DATA

Curb Elevation ____ Ft. Present Depth 470 Ft. Final Depth 470 Ft.

Ground Elevation 768 Ft. Topographic Position Upland

Static Level (Depth to water (above) (below) curb) 108 Ft. Pumping Level 175.5 Ft.

Amount of Drawdown 67.5 Ft. pumping at 85-91 g.p.m. in 24 hrs. _____ minutes.

Specific Capacity 1.35 g.p.m. per ft. drawdown in 24 hrs.

Type of Pump _____ Power _____

Depth of Bottom of Pump 210 ft. with _____ ft. of suction pipe.

TEMPERATURE: Air ____ °F.; Water ____ °F., measured after well had pumped ____ hrs. and ____ mins. at ____ g.p.m.; ____ ft. from pump after water had passed through the following pipe _____

Time _____ (A.M.) (P.M.)

SOURCE OF WATER:

Principal producing formation Silurian 260 ft. to 470 ft.

Other producing formations _____ ____ ft. to _____ ft.

REMARKS: (Taste, odor, and appearance) Good

Sample taken for: Mineral analysis(X); Sanitary analysis( ).

Data collected by P.J. Horick Date 3/28/80

Copies to: _____

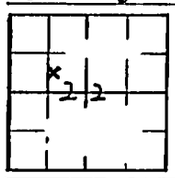
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Corps of Engineers, Coralville Lake

0 - 31 Clay
31 - 36 Sand
36 - 61 Gravel
61 - 64 Brown lime & shale
64 - 75 Lime
75 - 150 Cedar Valley
150 - 205 Wapsi
205 - 210 Niagara w/shale
210 - 227 Niagara clean
227 - 230 Niagara w/shale
230 - 236 Shale
236 - 245 Lime clean
245 - 250 Lime (w/shale)
250 - 467 Niagara clean
467 - 470 Niagara shale
470' T.D.
108' ~~105'~~ Static (not reliable)

casing schedule
- 66' 12" surface
- 227' 8" welded used
- 40' 7" TAC liner from 220' - 260'

FORM NO. 79—In stock and for sale by Ross-Martin Co., Tulsa. W-25832

STATE Iowa	Iowa city (Johnson)
~~SW NW SE~~ ~~SE, SE, NE~~, NW SEC. 22	U.S. Army Corps of Engineers (West Overlook)
TWP. 80N RGE. 6W	COMMENCED March 1980 COMPLETED
	Ed Winslow
	CASING RECORD 66' of 12" csg 227' of 8" csg To 220'
	40' of 7" T&C Liner csg 220'-260'
	LOGGED April 2, 1980 BY M.J. Bounk
EL.- 768' Topo	REMARKS SWL.- 108' PL.- 175.5'
T.D.- 470'	85 - 91 G.P.M. (24 Hr Pump Test)

ODI-150-151

Quaternary
Pleistocene

Devonian System
Cedar Valley Fm.

Wapsipinicon Fm.

Silurian System

Ordovician System
Maquoketa Fm.

Pleist

Dev. C.V.

Wapsipinicon

Dpgrov

Kenwood

Sil. Niag.

Ord. Maq.

50
100
150
200
250
300
350
400
450
500

Sl†org, lch.

Sl†, aa, yel†org.
aa→lt.gr.
Till, grorg, oxid, lch

Gravel, lg colorless → sd, crs → m, dirty, f.
Till, lt.olivegy, w/orng mott'g, pt ox id, unlch

Till, aa, clay, brn, limonite, gravel, aa; Ls, gravelly, pt frag
Ls, paleorng gy, SL; Ls, brn-orng, f, frag.
Ls, lt.gy-tan
aa→yel, f.
Ls, gy, aa; Ls, gy, pt. frag, arg, glauc.
Sh, dk ng glauc → v.lt.gn
aa→v.lt.gy, f.
Ls, lt.gy, sm.gd, w/dk.gy frags & debris.

aa, w/dk. mott'd
aa, w/org pt rings

aa, pt fl, w/no. mott.

Ls, aa mottled.
Ls, brn.gy → md/k.gy, m, pt. frag.
Pt. dol, omegy, m; Ls, aa, w/ stromatoporoid?
Ls, gy → v.lt.gy, pt. frag.
aa→lt/lt.gy → brn, SL

Dol, brn.gy → lt.gy, f, subsuc, pt. vuggy, h. calc

aa, primarily brn.gy.
Chal, v.lt.gy-colorless → chty Ls, gy, f, arg → sh.gy.
Ls, ul†gy, lt.gy, v. dol
Dol, pt. arg → sh.gy, flaky, calc

Dol, gy → brn, xlin, m, vuggy.
aa, very → m. not vuggy

aa, lt.gy → v.lt.gy.
Dol, gy → v.lt.gy, f → str.gd, w/ fr. emb. cd, calc.
Dol, brn, sl†→ul†.gy, f, sh.gy, lumpy, v. sdx
Dol, v.lt.gy → gy, SL → f, suc, sa→ pt. arg.

Dol, v.lt.gy → gy, f → str.gd, calc.
aa, arg, sdy
aa, vuggy, not. arg.
Dol, lt.gy → v.lt.gy, calc, f, pt. vuggy.

Dol, aa + m.dk.gy, dense; ss, colorless, mot, f, fr os t.

Dol, v.lt.gy, f, w/ emb. cd; + Dol, md/k.gy, aa
Dol, v.lt.gy → gy, f, & Turk emb. cd, v. vuggy, calc.
Dol, aa, not emb. cd.
Dol, aa, pt. arg.
Dol, aa, not. calc.

Dol, gy + ltl†.gy, v, vuggy, calc.
aa, v. vuggy.

aa + sh, gy, lumpy.

Dol, v.lt.gy, f, xlin, vuggy
aa, sli. calc.

Dol, v.lt.gy, f, arg vuggy, calc

aa + m.lt.gy, sli. less vuggy, not. calc.

Dol, v.lt.gy, xlin, f.

aa, pt. arg.
Ch†, v.lt.gy, fr os t. trip; Dol, aa

Dol, v.lt.gy, f → str.gd, xlin, sli. vuggy

→ 460'-467' ch†, v.lt.grs → trip; Dol, aa
→ 467'-470' sh, gy, blocky, dol, grn, blocky w/ dol thin bds

T.D.- 470'