

IOWA GEOLOGICAL SURVEY

W 8854

In Cooperation with U. S. Geological Survey

RECORD OF WELL

Location:

E. OF MAIN ST.

(N E)

Town:

CORRECTIONVILLE

(S W)

County

WOODBURY

SW SE SW

sec. 35

T. 89

N., R. 42

W.

Twp.

Well name and number

Owner

CITY WELL (1957)

Address

Tenant

Address

Contractor

RASMUSSEN WELL CO.

Address

104 GROVE, IOWA

Drillers

Drilling dates

MAY 1957

Well data:

Altitudes: Drilling curb

feet; Land surface

1129

feet

Determined by

altimeter (Toland & John)

Topographic position

Total depth: Reported

187

feet, Measured

feet

Drilling method

ROTARY

Hole and casing data

12" steel pipe casing to 157'

10" perforated pipe to bottom of sandstone

(info. received in letter 10/14/57 [Q.V.E])

Original depth to water

above
ft. below

Date

Source of data

Sources of water: Principal

Others

Production Data

Date _____
 Static water level _____
 Measuring point _____
 Pumping water level _____
 Yield (g. p. m.) _____
 Duration of pumping _____
 Specific capacity _____

Pump Data

Type pump _____ Column diameter and length _____
 Cylinder or bowls diameter and length _____
 Suction pipe _____ Airline _____
 Power _____ Production _____ g. p. m. for _____ hours per day
 Use of water _____

Dissolved constituents and properties (in parts per million except as indicated)

Date sampled _____
 Sampled by _____
 Silica (SiO₂) _____
 Iron (Fe) _____
 Manganese (Mn) _____
 Calcium (Ca) _____
 Magnesium (Mg) _____
 Potassium (K) _____
 Sodium (Na) _____
 Carbonate (CO₃) _____
 Bicarbonate (HCO₃) _____
 Sulfate (SO₄) _____
 Chloride (Cl) _____
 Fluoride (F) _____
 Nitrate (NO₃) _____
 Dissolved solids _____
 Hardness (as CaCO₃) _____
 Total _____
 Grains per gallon _____
 Noncarbonate _____
 Alkalinity (as CaCO₃) _____
 pH _____
 Specific conductance _____
 (micromhos at 25°C) _____
 Temperature (°F) _____
 Analysis No. _____

Laboratory Data

Well No. **W 8854** Sample range **0-187** No. of samples **35**
 No. of dupls. and cond. **35** **Good** Washed range **153-187**
 Samples prepared by **D. L. Dunn** Date **7/17/57**
 Logged by **D. L. Dunn** Date **10/18/57**
 Correlations by **D. L. Dunn** Date **10/18/57**

KDD
087-426-35 CDC

Card Q.

Card R

Card S

Punched PMJ

No. 5
80

Published:

UNITED STATES DEPARTMENT OF THE INTERIOR

Geological Survey
Water Resources DivisionLocal Well No. 089-42W-35CDCAquifer Code(s) KIDIOwner's Name CORRECTIONVILLE, (1957)W Number 08854Water Quality
(ppm)

Card Q

State: Iowa 1 9 County: WOODBURY 9 7 Town: CORRECTIONVILLE, Iowa

Well No. 4 2 2 8 3 3 N Latitude Longitude Seq. No. 1 Date 0 4 2 0 5 9

Sampling Depth 1 8 7 Type 1 Kx10⁶ 1 7 1 0 pH 7 4 Temp. °F

SiO₂ 1 8 Ca 2 2 3 Mg 5 4 Na 1 2 4 K 1 0

HCO₃ 3 6 8 CO₃ 0 SO₄ 7 3 1 Cl 9 Source No. 3 Q

Card R

Duplicate Columns 1-25 from Card Q

F 9 NO₃ 3 1 PO₄ B Al Fe 2 3

Mn 1 8 Cu Pb Zn

Determined 1 4 4 0 Solids Ca, Mg 7 7 9 Hardness Non-Carb. 4 7 7

Color No. R

Card S

Duplicate Columns 1-25 from Card Q

Br I Alk. as CaCO₃ 3 0 2 Free CO₂ SAR

RSC ABS

Alpha (pc/l) Beta (pc/l) Ra (pc/l) U (ug/l)

No. S
80Recorded by: D. AARONSONPunched by: T Date: 10/10Published:

UNITED STATES DEPARTMENT OF THE INTERIOR

Geological Survey
Water Resources DivisionLocal Well No. 089-42W-35CDCAquifer Code(s) KIDIOwner's Name CORRECTIONVILLE, (1957)W Number 08854Water Quality
(ppm)

Card Q

State: IOWA 19 County: WOODBURY 97 Town: CORRECTIONVILLE, Iowa

Well No. 422833N 0954633 Seq. No. 1 Date 092666

Sampling Depth 187 Type 1 Kx10⁶ 1800 pH 7.4 Temp. °F

SiO₂ 21 Ca 220 Mg 54 Na 140 K 12

HCO₃ 389 CO₃ 0 SO₄ 740 Cl 7.5 Source No. 3 Q

Card R

Duplicate Columns 1-25 from Card Q

F 7 NO₃ 11 PO₄ B Al Fe 38

Mn 18 Cu Pb Zn

Determined 1470 Solids Hardness 770 Non-Carb. 451

Color No. R

Card S

Duplicate Columns 1-25 from Card Q

Br I Alk. as CaCO₃ 319 Free CO₂ SAR

RSC ABS

Alpha (pc/l) Beta (pc/l) Ra (pc/l) U (ug/l)

No. S
80Recorded by: D. AARONSONPunched by: T Date: KWPublished:

Verified PMJ
Punched PMJ

U. S. DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Water Resources Division Well Schedule Form

MASTER CARD

Record by TWENTY Source of data FILES Date 6/28/65 Map COUNTY HIGHWAY 1:62,360

State IOWA County WOODBURY Sequential number 97

Latitude: 42° 28' 33" N Longitude: 095° 44' 33" W

Lat-long accuracy: 2 T 89 S, R 42 E, Sec 35, SW 1/4, SE 1/4, SW 1/4

Local well number: 08942W35CJC Other number: W-8854

Local use: 08854, 57CITY

Owner or name: CITY OF CORRECTIONVILLE Address: CORRECTIONVILLE, IOWA

Ownership: County, Fed Gov't, City, Corp or Co, Private, State Agency, Water Dist M

Use of water: (A) Air cond, Comm, Dewatering, Fire, Dom, Irr, Ind, P, S, Stock, Instit, Unused P

Use of well: (A) Anode, Drain, Seismic, Obs, Oil-gas, Recharge, Spring, Test, Unused, Withdraw, Waste, Destroyed W

DATA AVAILABLE: Well data 1 Freq. W/L meas.: INVENTORY Field aquifer char. 0

Hyd. lab. data: 0

Qual. water data; type: COMPLETE

Freq. sampling: 0 Pumpage inventory: 0 yes no, period: 0

Aperture cards: 0 yes

Log data: SAMPLE LOG

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD Depth well: 187 ft Meas. 187 ft accuracy 6

Depth cased: 157 ft Casing Type: STEEL Diam. 12 in

Finish: (C) porous concrete, (F) gravel w. concrete, (H) gravel w. screen, (O) horiz. open, (P) (perf.) screen, sd. pt., (S) shored, (T) shored, (W) open hole, (X) other, (Z) other P

Method: (A) air bored, (B) cable, (C) dug, (D) hyd jetted, (E) air reverse, (F) percussive, (G) rotary, (H) driven, (I) wash, (J) other, (K) other, (L) other H

Date Drilled: MAY 1957 Pump intake setting: 9517 ft

Driller: RASMUSSEN WELL CO, IDA GROVE, IA

Lift: (A) air, (B) bucket, (C) cent. jet, (D) multiple, (E) (cent.) turb., (F) none, (G) piston, (H) rot, (I) submerg, (J) turb, other 0 Deep 0 Shallow 0

Power: (A) diesel, (B) elec, (C) gas, (D) gasoline, (E) hand, (F) gas, (G) wind, (H) H.P., (I) other, (J) other, (K) other, (L) other 0 Trans. or meter no. 0

Descrip. MP LSD ft above 1129 lsd, Alt. MP 1129

Alt. LSD: 1129 Accuracy: ALTIMETER

Water Level: 20 ft above MP, 20 ft below lsd Accuracy: DRILLER'S LOG

Date meas.: 300 Yield: 300 gpm Method: determined

Drawdown: 90 ft Accuracy: DRILLER'S LOG Pumping period: 3 hrs

QUALITY OF WATER DATA: Iron 5.5 ppm Sulfate 762 ppm Chloride 10 ppm Hard. 766 ppm

Sp. Conduct 1670 K x 10⁶ Temp. 5 °F Data sampled DEC 1957 D517

Taste, color, etc. slightly turbid 2 ANALYSES

Well Number 42, 28, 33 ^N 095, 46, 33.1
d m s d m s

HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD

Physiographic Province: CENTRAL LOWLAND 1 2 Section: DISSECTED TILL

Drainage Basin: PLAIN 9 LITTLE SIoux 3 6 C Subbasin: 26

Topo of well site: local depression, flat surface, hilltop, hillside, terrace, valley flat, 27

MAJOR AQUIFER: CRETAKEAN, LOWER K1 DAKOTA SANDSTONE D1

Lithology: FINE SANDSTONE V Origin: MARINE 6 Thickness: 150 ft

Length of well open to: 32 ft Depth to top of: 150 ft

MINOR AQUIFER: Q 4 46 47

Lithology: Q 48 49 Origin: Q 50 Thickness: 4 ft

Length of well open to: 4 ft Depth to top of: 4 ft

Intervals Screened: 150 ft 150 ft

Depth to consolidated rock: 150 ft Source of data: SAMPLE LOG C

Depth to basement: 45 ft Source of data: 69

Surficial material: TILL 70 71 Infiltration characteristics: POOR 72 4

Coefficient Trans: 73 75 Coefficient Storage: 76 78

Coefficient Perm: 79 81 83 85 87 89 91 93 95 97 99

CASING:

12" casing = 0-157'

10" casing = 153'-187' (PERFORATED)

- 2 water samples; Dec. 1957 and April 1959



DRILLER'S NOTEBOOK

8854

WELL RECORD

DRILLER

ADDRESS

ADDRESS

RETURN TO
IOWA GEOLOGICAL SURVEY
DES MOINES, IOWA

WELL RECORD

N
E

N
E

Well is located.....miles S and.....miles S from
W W

Countessville in Woodbury
(Nearest Town) (County)

in the 1/4 1/4 Sec. T. R.

Owner..... Well No.....

Postoffice address

Contractor

Address

Driller

Well begun May 25, 1927;

completed....., 19.....

Rig used—Cable, Rotary, Jet, or.....

Depth of well..... 187
(Feet)

Size of hole (note total amount of each size).....

Main water supply at.....
(Feet below surface)

Final water head..... 20'
(Feet above or below surface)

Is well pumped?.....

Yield..... 300 GPM
(Gallons per minute)

Water level when pumping.....

Position of well.....
(Upland, valley, side hill,

Sample No.	DEPTH		THICKNESS
	From	To	
1	0	5	
2	5	18	
3	18	15	
4	15	20	
5	20	25	
6	25	30	
7	30	35	
8	35	40	
9	40	45	
10	45	50	
11	50	55	
12	55	60	
13	60	65	
14	65	70	
15	70	75	
16	75	80	
17	80	85	

DESCRIPTION OF BEDS

KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.

yellow clay
sand
sand
sand
gravel
gravel
Blue Clay
Blue Clay
Blue clay
Blue Clay
Blue clay
Blue clay.
Blue clay
Blue Clay
Blue Clay
Blue clay
Blue clay

[illegible]

DESCRIPTION OF BEDS

KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.

Sandstone
sandstone
shale Below sandstone