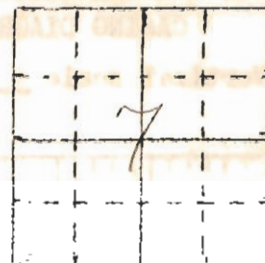


IOWA GEOLOGICAL SURVEY
In Cooperation with U. S. Geological Survey

W-1526

RECORD OF WELL



Location:

Town: BREDA (N E)
(S W); County CARROLL

SW - SW - SW sec. 7 T. 85 N., R. 35 W. KNIGHT Twp.

Well name and number TOWN Well #2

Owner Town of Breda Address _____

Tenant _____ Address _____

Contractor Thorpe Well Co Address Des Moines

Drillers Edgar Hurtt

Drilling dates 1942

Well data:

Elevations: Drilling curb 1364 ^{top casing} feet; Land surface 1362 feet

Determined by C.N.W. RR

Topographic position lowland flat gently rolling Marquette drift surface

Total depth: Reported 349 feet, Measured _____ feet

filled back to 340

Drilling method cable tools

Hole and casing data 320' of 10" casing set at 314' 8"; 20' of 4" set at 335'
(Give amount, size, kind, and depth of all casing; type and
22' 11" of 5 1/2" I.D. casing screwed to top of Everdur screen
position of seals and packers; cementing; how finished—perforated pipe, screen,
gravel pack, open hole, etc.)

Original depth to water _____ ^{above} ft. below _____ Date _____

Original elevation of water level _____ ft.; Source of data _____

Sources of water: Principal _____; Others _____

Production data:

Date March 19, 1942
 Static depth to water 194.56 Measuring point top of 10" casing 1364'
 Pumping level 223.56 at 200 g.p.m.
218.56 150

Specific capacity 6 g.p.m. per ft. drawdown; Temperature °F.

Pump data; Type pump Column Dia. Length
 Cylinder or bowls: Dia. Length Suction pipe
 Power Airline
 Estimated rate of production: g.p.m. for hrs. a day
 Use of water Town supply

WATER ANALYSES (in parts per million)

Date sampled				
Sampled by				
Total solids				
Insoluble matter				
Alkalinity (Mco)				
Alkalinity (Phn)				
pH				
$\text{Fe}_2\text{O}_3 + \text{Mn}_2\text{O}_3 + \text{Al}_2\text{O}_3$				
Alkali as sodium				
Calcium				
Magnesium				
Iron (unfiltered)				
Manganese				
Nitrate				
Fluoride				
Chloride				
Sulfate				
Bicarbonate				
Hardness (ppm)				
Hardness (gpg)				

Remarks

Laboratory data:

Sample storage location
 Sample range 0-349' No. spls. 69 No. dupls. & cond. 69 good

Spls. prepared by Hawkins Washed range by

Driller's log and cond. No

Insoluble residues: Prepared by Studied by Strip log

Microscopic study 0-349 Davis, Schultz strip log Davis 4-18-42 Schultz

Gen. log Davis Correl. by Davis

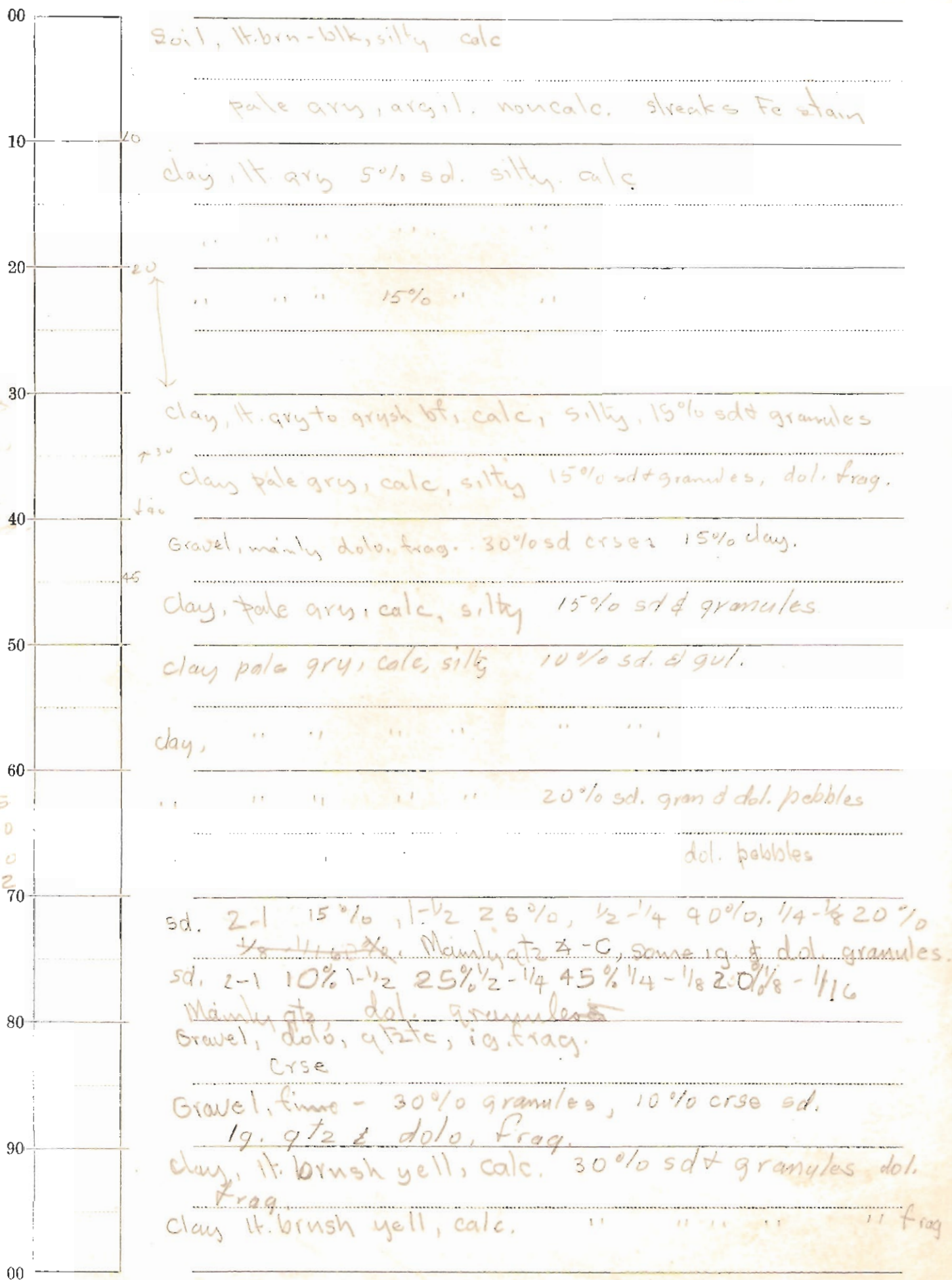
WATER LEVEL DATA

Measuring point _____

Date	Depth to water	Altitude	Remarks

REMARKS

Located just N. of Maintenance bldg. which
& west of RR tracks



1-1/2 25
 1/2-1/4 40
 1/4-1/8 20
 1/8-1/16 2



Location Date Drilled Analyst Davis. 4-17-42

/ 00

Gravel, dol. frag. - rounded & faceted.
30% clay brnsh yell. calc.
clay, brnsh yell. calc. 50% sd. granules & gvl.
qtz, lg. & dol.

10

Gravel, fm & granules 50% clay aa.
clay, 60% m. gry. calc. 40% aa. & 0% gvl. & dol. & lg.

20

clay, m. gry. calc. 40% fine gvl & granules, dol. & lg.
clay m. gry calc. 50%

30

Gvl. & granules, ls & dol. 40% clay, m. gry, calc

40

clay, m. gry. calc 40% fine gvl & granules, aa
50% " " ls, dol, qtz.

/ 50

60

40% " "

30% " "

70

" 70% m. gry calc. 30% brnsh yell. calc.
40% gvl & granules ls dol. & lg.
clay, m. gry, calc. 60% gvl. & gnules, aa.

80

clay lt. drab 25% gnls & sd. - ls dol. qtz.

" " yellsh, drb. 25% crse sd aa.

90

" 50% gvl, gnls, & sd, ls, dol & qtz.
40% " " " " " "

100

00

clay pale yellsh brn calc. 30% gvl & granules

10

clay, un-drk drbsh gry ^{calc} 40%

20

clay un-drbsh gry calc 30%

granules

30

gvl & "

25%

40

"-dk " 30% " " & sd.

" " " " & 15% yellsh brn calc
90% gvl, gnl, & sd.

drbsh gry, calc 40% gvl, gnl & sd.

gry calc. 40% gvl, gnl & sd.

50

drbsh gry yellsh in part, calc. 30% gvl,
gnl, & sd.

clay, un-drbsh gry, calc, tr. yell. 30% gvl, gnl & sd

60

dol, ls, & qtz

" " " 30% gvl, gnl & sd, dol, ls & qtz

70

silty " " " " " "

80

sd, 2-1 above 25% 1-1/2 25%, 1/2-1/4 30%, 1/4-1/8 20%
10% s. ple clay aa

sd, v. poorly sorted - qtz, qtzs, dol, & ig.

Size range 4mm

sd, aa, mainly qtz.

Granules 30%, 2-1-10%, 1-1/2 10% 1/2-1/4 15% 1/4-1/8 35%

sd, mainly qtz, & -C 2-1 10%, 1-1/2 10%, 1/2-1/4 50%, 1/4-1/8 30%

[15% silty, sd, clay, pale brn-yellow, thin calc

sd, mainly qtz few ig & dol. grains 2-1 5% 1-1/2 10% 1/2-1/4 40%

1/4-1/8 45% mostly x few C, 10% clay aa, calc.

00

00

clay, pale graysh yell, tr. pink, calc, v. sdy fine

silt, 2

sd. 2-1-15% 1-2 50% 1/2-1/4 25% 1/4-1/8 10%
 Large grains polished 2% pink grains 2% yellowish grains 2% gray chalc. grains
 qtz, 4 - C, most of C grains polished. WASHED

au.

sd. aa. 15% clay, yellsh brn

Tr. pink grains
 2% yellowish grains

sd. 25% granules, 2-1, 15% 1-1/2 50% 1/2-1/4 10%

largest polished. 10% pink grains Tr. gray chalc. 10% clay aa 5% yellowish grains Tr. black "

sd. Granules 50%, 2-1 50%, 1-1/2 70%, 1/2-1/4 20%

2% pink grains, 5% yell chalc. grains
 Large grains polished

sd. aa, 15% brnsh yell clay, sl. calc.

1% pink grains 1% yell chalc. grains
 Most are 2% polished

clay, variegated, yell, pale brn, pink, red.

25% caved drift.

clay variegated, wh-pale brn - bf.

25% caved drift

clay, pale gray - bf. Tr. pink red. 25% caved drift.

49

T.D. 349

60

70

80

90

00

IOWA GEOLOGICAL SURVEY
Generalized Log Based on Detailed
Description of Drill Cuttings

Name of Well Breda City Well No. Survey No. W-1526
 Location SW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 7, T. 85 N., R. 35 W. Carroll County
 Drilled by Thorpe Well Co. Des Moines
 Total Depth 347~~8~~ ft. Curb Elevation 1362 ft. Static Level 193~~8~~ ft.
 Pumping Test 24 Hours Min; Gal. per min. 200 Drawdown 29 ft. in min.
 Casing Data 320' casing set at 314' 8" ; 20' of 6" set at 335' ;
22" 11" on 5 1/2 I.D. casing screwed to top of Everdur screen

No.	Rock Unit	Description of Formations	Thick.	From (feet)	To
PLEISTOCENE SYSTEM					
Recent stage					
1.	Soil, light brown to black, silty, calcareous		5	0	5
2.	Silt, pale gray, argillaceous		5	5	10
Wisconsin Stage					
3.	Clay, light gray, silty, sandy, calcareous. Unoxidized drift		30	10	40
4.	Gravel, mainly dolomite fragments, 30% coarse sand, 15% clay		5	40	45
5.	Clay, pale gray calcareous silty, 10% to 20% sand and granules and dolomite pebbles		25	45	70
6.	Sand, 2-1 mm. 10-15%, 1½ mm. 25%, ½-¼ mm. 40-45%, ¼-1/8 mm. 20%, mainly quartz, some igneous and dolomite granules, angular to curvilinear		10	70	80
7.	Gravel, medium to fine grained, quartz, igneous, and dolomite fragments		10	80	90

Notes: * Well reported drilled to 349 feet and backfilled to 340'. Water level is 194.56 feet below top of casing which is 1.4 feet above ground

Sent to: Mayor, Breda, Iowa, and Thorpe Well Co., Des Moines, Aug. 11, 1942

W-1526

<u>No.</u>	<u>Rock Unit</u>	<u>Description</u>	<u>Thick</u>	<u>From</u>	<u>To</u>
Kansan stage					
3.	Clay, light brownish yellow, calcareous, 30%-50% sand, granules, and gravel, quartz, igneous, and dolomite fragments, angular, rounded, and faceted. Oxidized drift		25	90	115
9.	Clay, medium gray, calcareous, 30% to 60% sand, granules, and gravel, quartz, igneous, dolomite, and limestone fragments. Unoxidized drift		55	115	180
Nebraskan stage					
10.	Clay, light drab to yellowish drab to pale yellowish brown; 25% to 60% sand, granules and gravel, quartz, dolomite, and limestone fragments. Oxidized drift		25	180	205
11.	Clay, medium to dark drabish gray, calcareous; 30% to 40% sand, granules, and gravel, quartz, dolomite, and limestone fragments. Unoxidized drift		70	205	275
12.	Sand, 4-2 mm. 15%-30%, 2-1 mm. 10%; 1- $\frac{1}{2}$ mm. 10%-25%, $\frac{1}{2}$ - $\frac{1}{4}$ mm. 15%-30%, $\frac{1}{4}$ -1/8 20%-40%, quartz, igneous, and dolomite fragments, angular to curvilinear		15	275	290
CRETACEOUS SYSTEM					
Dakota formation					
13.	Sandstone, 2-1 mm. 5%-10%, 1- $\frac{1}{2}$ mm. 10%, $\frac{1}{2}$ - $\frac{1}{4}$ mm. 40%-50%, $\frac{1}{4}$ -1/8 mm. 30-45%, angular to curvilinear, mainly clear quartz, few grains of chalcedony, few large grains polished. 10%-15% of sample clay, pale brown to yellow		10	290	300
14.	Shale, pale grayish yellow, trace of pink, calcareous, sandy, silty		5	300	305
15.	Sandstone, 2-1 mm. 15%, 1- $\frac{1}{2}$ mm. 50%, $\frac{1}{2}$ - $\frac{1}{4}$ mm. 25%, $\frac{1}{4}$ -1/8 mm. 10%, mainly clear quartz, trace to 1 % rose quartz, 2% to 5% yellow chalcedony grains, trace gray chalcedony grains; most of grains above $\frac{1}{2}$ mm. polished, angular to curvilinear		15	305	320
16.	Sandstone, 4-2 mm. 5%-25%, 2-1 mm. 5%-15%, 1- $\frac{1}{2}$ mm. 50%-70%, $\frac{1}{2}$ - $\frac{1}{4}$ 10%-20%, mainly clear quartz, 1% to 2% pink quartz, 1%-5% yellow chalcedony grains. Trace gray to black chalcedony grains, grains above $\frac{1}{2}$ mm. polished. 10%-15% clay, brownish yellow		15	320	335

W-1526

<u>No.</u>	<u>Rock Unit</u>	<u>Description</u>	<u>Thick</u>	<u>From</u>	<u>To</u>
17.	Shale, variegated, yellow, pale brown, pink, red		5	335	340
18.	Shale, white, to pale brown to buff		5	340	345
19.	Shale, pale gray to buff, trace of pink and red		4	345	349
Total depth					349

THORPE BROTHERS WELL COMPANY

2340 Sixth Avenue
DES MOINES, IOWA

Carroll Co

Drilled for Town of Breda at Breda, Iowa

Drilling started 1/12/42 1942 Completed 2/19/42 1942

Well No. 2 Kind of Well Drilled Depth 351 Size hole started 16 in.

Finish 10" G. P. M. 200 Static head 200' Drawdown 29'

Water was first encountered at 80' in sand & gravel Approximate Amount 500PM

Remarks After pulling temporary pipe filled hole with clay to 15'
of top. Cemented top 15'

RECORD OF PERMANENT PIPE					TEMPORARY PIPE	
SIZE PIPE	AMOUNT OF PIPE	DEPTH TO BOTTOM OF PIPE	DEPTH TO TOP OF PIPE	MAKE OF PIPE	SIZE PIPE	AMOUNT
10"	320'	315' 8"	2' above		16"	52' 2"
		shoe on bottom			13"	156' 1"
6"	20'	335'	315'	Everdur screen		
		with 22' 11" on 5 1/2" IJ casing	screwed to top			
		of screen				

Driller Edgar Hurt From Surface to feet

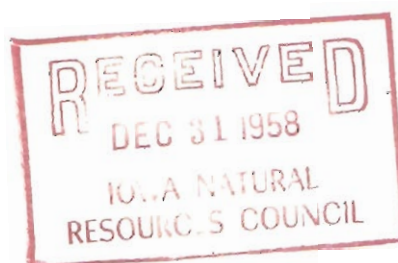
Driller From feet to feet

Driller From feet to feet

AMOUNT IN FEET	KIND OF SOIL OR FORMATION	TOTAL DEPTH FEET
4	Old fill	4
6	Blue clay	10
5	Gray clay	15
5	Muddy sand- water	20
20	Silty gray clay	40
5	Sand- gravel- water	45
5	Muddy sand	50
20	Gray silty-drift	70
10	Fine gray sand- water	80
5	Sand & gravel	85
10	Muddy sand	95
25	Yellow silty clay	120
55	Blue clay	175
15	Blue clay & boulders	190
15	Sandy yellow clay	205
70	Blue clay	275
5	Sand	280
5	Muddy sand	285
9	Cemented sand	294
11	Muddy sand	305

5	Sand- gravel- water
5	Muddy sand
20	Gray silty-drift
10	Fine gray sand- water
5	Sand & gravel
10	Muddy sand
25	Yellow silty clay
55	Blue clay
15	Blue clay & boulders
15	Sandy yellow clay
70	Blue clay
5	Sand
5	Muddy sand
9	Cemented sand
11	Muddy sand
30	Sandstone
14	Fire clay

40
45
50
70
80
85
95
120
175
190
205
275
280
285
294
305
335
349



UNITED STATES DEPARTMENT OF THE INTERIOR

Geological Survey
Water Resources Division

Local Well No. 085-35W-07CCC

Aquifer Code(s) KID1

Water Quality
(ppm)

Owner's Name BREDA City #2 (1992)

W Number 01526

Card Q

State: IOWA 19 County: CARROLL 14 Town: BREDA, IOWA

Well No. 421058N 0945827 Seq. No. 1 Date 050455

Sampling Depth 340 Type 1 Kx10⁶ 1780 pH 7.3 Temp. °F 54

SiO₂ 281 Ca 220 Mg 731 Na 1241 K 74

HCO₃ 373 CO₃ 0 SO₄ 7571 Cl 72 Source No. 1Q

Card R

Duplicate Columns 1-25 from Card Q

F 4 NO₃ 84 PO₄ 11 B 1 Al 2 Fe 32

Mn 111 Cu 1 Pb 1 Zn 1

Determined 1410 Solids 1 Calc. 1 Ca, Mg 849 Hardness 544

Color 1 No. R

Card S

Duplicate Columns 1-25 from Card Q

Br 1 I 1 Alk. as CaCO₃ 305 Free CO₂ 1 SAR 1

RSC 1 ABS 1 1 1

Alpha (pc/l) 1 Beta (pc/l) 1 Ra (pc/l) 1 U (ug/l) 1

No. S
80

Recorded by: D. AARONSON

Punched by: _____ Date: _____

Published: _____

UNITED STATES DEPARTMENT OF THE INTERIOR

Geological Survey
Water Resources DivisionLocal Well No. 085-35W-07CCCAquifer Code(s) K1D1Water Quality
(ppm)Owner's Name BREDA (1942)W Number 01526

Card Q

State: Iowa 19 County: CARROLL 14 Town: BREDA, IOWA

Well No. Latitude 421058N Longitude 0945827 Seq. No. 1 Date 092666

Sampling Depth 340 Type 1 Kx10⁶ 1810 pH 7.2 Temp. °F 52

SiO₂ 27 Ca 222 Mg 72 Na 120 K 7.8

HCO₃ 410 CO₃ 0 SO₄ 750 Cl 6.5 Source No. 3 Q

Card R

Duplicate Columns 1-25 from Card Q

F 2 NO₃ 1 PO₄ 1 B 1 Al 1 Fe 25

Mn 13 Cu 1 Pb 1 Zn 1

Solids 1510 Calc. 1 Ca, Mg 850 Hardness Non-Carb. 514

Color 1 No. R

Card S

Duplicate Columns 1-25 from Card Q

Br 1 I 1 Alk. as CaCO₃ 336 Free CO₂ 1 SAR 1

RSC 1 ABS 1 1

Alpha (pc/l) 1 Beta (pc/l) 1 Ra (pc/l) 1 U (ug/l) 1

No. 5
80Recorded by: D. AARONSONPunched by: 1 Date: 1Published: 1

UNITED STATES DEPARTMENT OF THE INTERIOR
Geological Survey
Water Resources Division

085-35W-07 CCC
KID/
Breda City #2 (1942)
01526

W-1526

Water Quality
(ppm)

Card Q

State: IOWA 1 0 County: CARROLL 1 9 Town: BREDA

Latitude 4 2 1 0 5 5 N Longitude 9 4 5 R E 7 Seq. No. 1 Date 0 2 1 7 5 9

Well No. 5 11 12 18 19 20 25

Sampling Depth 3 4 0 Type 1 Kx10⁶ 1 7 2 0 pH 7 4 Temp. °F 39 41

SiO₂ 2 6 1 Ca 2 3 4 Mg 7 2 1 Na 9 0 1 K 7 7

HCO₃ 3 8 5 CO₃ 0 SO₄ 7 0 1 Cl 7 0 1 Source No. Q

Card R

Duplicate Columns 1-25 from Card Q

F 0 5 NO₃ 1 1 1 PO₄ 1 1 1 B 1 1 1 Al 1 1 1 Fe 1 2 1

Mn 1 2 1 Cu 1 1 1 Pb 1 1 1 Zn 1 1 1

Solids 1 5 1 0 Calc. 1 1 1 1 1 1 Ca, Mg 2 7 5 Hardness Non-Carb. 5 0 0

Determined 58 63 64 69 70 73 74 77

Color 78 79 No. R 80

Card S

Duplicate Columns 1-25 from Card Q

Br 1 1 1 I 1 1 1 Alk. as CaCO₃ 3 1 9 Free CO₂ 36 38 SAR 39 41

RSC 42 44 ABS 45 47 48 50

Alpha (pc/l) 55 57 Beta (pc/l) 58 60 Ra (pc/l) 61 63 U (ug/l) 64 66

Verified FMJ

No. 8
80

Recorded by: D. AARONSON

Punched by: Punched FCH Date: _____
Published: _____

COPY

U. S. Dept. of the Interior -- Geological Survey

Statement of Water Analysis

Source	drilled well	Pt. of collection:	tap at pump head
Location	Carroll County, Breda, Iowa		
	SW $\frac{1}{4}$ sec. 7, T. 85 N. R. 35 W.		
Date collected	May 4, 1955	Type of well	drilled
Discharge	115 GM pump est.	Depth (ft.)	340 cased to 315
Temp. ($^{\circ}$ F)	54	Diameter (in.)	10-5 $\frac{1}{8}$
Collected by	R. Gale McMurtrey	Date drilled	1942 Use Ps
Appearance:	clear	W.B.F. Dakota and fr	305' to 335'
		Depth to water (ft.)	190 below 1st
		Owner	city of Breda, Iowa

Chemical components			Physical characteristics and computed values
	ppm	epm	
Silica (SiO ₂)	28		Dissolved solids (ppm)
			Res. on evap. at 180°C 1,500
Aluminum (Al) tot.	0.2		Sum 1,410
Iron (Fe) <u>1/</u> tot.	0.32		Suspended solids (ppm)
			Hardness as CaCO ₃ (ppm)
Manganese (Mn) <u>1/</u> tot.	1.1		Calcium, magnesium tot. 849
Calcium (Ca)	220	10.98	non-carbonate 544
Magnesium (Mg)	73	6.00	Specific conductance
Sodium (Na)	124	5.39	
Potassium (K)	7.4	0.19	(micromhos at 25°C) 1,780 0
			pH 7.3
			Color 25
			Percent Na 24
	Cations (epm) 22.56		
Bicarbonate (HCO ₃)	373	6.11	
Carbonate (CO ₃)	0	0.00	
Sulfate (SO ₄)	757	15.76	
Chloride (Cl)	7.2	0.20	
Fluoride (F)	0.4	0.02	
Nitrate (NO ₃)	8.4	0.14	
Phosphate (PO ₄)	0.1		
	Anions (epm) 22.23		
Diff: Cations - anions, epm	.33		

1/ In solution at time of analysis

WRD Exp. (GW)
Aug. 1964

U. S. DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Water Resources Division Well Schedule Form

MASTER CARD

Record by D. HARRISON Source of data FILE Date 7/12/65 Map COUNTY NWY 1163,360

State IOWA County CARROLL (or town) 117

Latitude: 42 10 5 N Longitude: 094 5 8 W Sequential number: 7

Lat-long accuracy: 2 S, 85 N, 35 E, 7 S, SW 5 W

Local well number: 01526 Other well number: W-1526

Local use: 42 CITY Owner or name: BREDA TOWN #2

Owner or name: BREDA IOWA Address: BREDA, I.A.

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: IRREGULAR Pumpage inventory: 1 yes, no, period: 0

Aperture cards: 0

Log data: GEOLOGIST LOG G.D.

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD Depth well: 340 ft Meas. 340 ft accuracy 6

Depth cased: (first perf.) 335 ft Casing type: STEEL Diam. 10 in

Finish: (C) porous gravel w. concrete, (F) gravel w. (G) horz. open perf., (H) screen, (I) sd. pt., (J) shored, (K) other

Method: (A) air bored, (B) cable, (C) dug, (D) hyd jetted, (E) air reverse, (F) trenching, (G) driven, (H) drive wash, (I) other

Drilled: 1942 342 Pump intake setting: 0 ft

Date Drilled: 1942 342 Pump intake setting: 0 ft

Driller: THORPE WELL CO. DES MOINES, IOWA

Lift (type): (A) air, bucket, cent, jet, (B) multiple, (C) multiple, (D) none, piston, rot., submerg, turb, other

Power: (type): diesel, elec, gas, gasoline, hand, gas, wind, H.P. 0 Trans. or meter no. 0

Descrip. MP CURB 2 ft above 1st, Alt. MP 1364

Alt. LSD: 1362 1362 Accuracy: (source) ALTIMETER

Water Level: 194.56 ft above below MP; Ft above below 1st 193 Accuracy: REPORTED

Date meas: FEB. 1942 942 Yield: 200 gpm 200 Method determined 0

Drawdown: 29 ft 29 Accuracy: REPT. 6 Pumping period 24 hrs 24

QUALITY OF WATER DATA: Iron 124 Sulfate 703 Chloride 7 Hard. 878

Sp. Conduct 1720 K x 10⁶ Temp. 5 Date sampled FEB. 1955 259

Taste, color, etc. 0

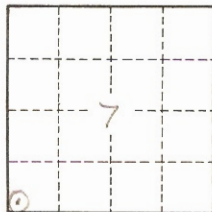
Well Number 42 10 58 ^N094,5827
d m s d m s

HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD		Physiographic Province: <u>CENTRAL LOWLAND</u>		Section: <u>WESTERN</u>	
LAKE <u>B</u>		Drainage Basin: <u>RACCOON</u>		Subbasin: <u>25A</u>	
Topo of <u>(D)</u>		(H) <u>(S)</u> <u>(T)</u> <u>(V)</u>		well site: local depression, flat surface, hilltop, hillside, terrace, valley flat, <u>UNDULATING</u>	
MAJOR AQUIFER: <u>CRETACEOUS LOWER</u>		<u>K.I.</u>		<u>DAKOTA SANDSTONE</u>	
system		series		aquifer, formation, group	
Lithology: <u>MEDIUM SANDST</u>		Origin: <u>MARINE</u>		Aquifer Thickness: <u>6</u> ft	
Length of well open to: <u>5</u> ft		Depth to top of: <u>290</u> ft		<u>290</u>	
MINOR AQUIFER: <u>335</u>		system		series	
Lithology: <u>335</u>		Origin: <u>335</u>		Aquifer Thickness: <u>335</u> ft	
Length of well open to: <u>335</u> ft		Depth to top of: <u>335</u> ft		<u>335</u>	
Intervals Screened: <u>335-390</u>		Depth to consolidated rock: <u>290</u> ft		Source of data: <u>WELL CUTTINGS</u>	
Depth to basement: <u>290</u> ft		Source of data: <u>69</u>		Infiltration characteristics: <u>POOR</u>	
Surficial material: <u>SANDY TILL</u>		Coefficient Trans: <u>70</u>		Coefficient Storage: <u>70</u>	
Coefficient Perm: <u>70</u>		Spec cap: <u>6.8</u>		Number of geologic cards: <u>79</u>	

CASING:

320' OF 10" CASING SET AT 314'8"
20' OF 6" CASING SET AT 335'
22'11" OF 5 1/2" I.D. CASING
SCREWED TO TOP OF EVERDUR
SCREEN.



399' BACKFILLED TO 340'