

Punched FCH

WRD Exp. (GW)
Aug. 1964

Verified PMJ

U. S. DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Water Resources Division Well Schedule Form

MASTER CARD

COUNTY HWY

Record by D. AARONSON Source of data FILE Date 6/24/65 Map 1:63,360

State IOWA County (or town) IDA 47

Latitude: 42° 29' 15" N Longitude: 095° 32' 35" W Sequential number: 1

Lat-long accuracy: 3" T 89 S, R 40 S, Sec 35, NW 1/4, NW 1/4, NW 1/4

Local well number: 05120 Other number: W-5120

Local use: 05120 51 CITY Owner or name: TOWN OF HOLSTEIN

Owner or name: HOLSTEIN, IOWA Address: HOLSTEIN, IOWA

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

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

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

DATA AVAILABLE: Well data 5 Freq. W/L meas.: NONE N Field aquifer char. 71

Hyd. lab. data: 73

Qual. water data; type: 74 C

Freq. sampling: 75 Pumpage inventory: yes no, period: 76

Aperture cards: 77

Log data: GEOLOGIST 1.06 78 79

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD Depth well: 430 ft. 430 Meas. 6

Depth cased: (first perf.) 73 Casing Type: 75 ; Diam. 76 accuracy 77

Finish: porous gravel w. gravel w. horiz. open perf., screen, sd. pt., shored, open hole, other 31

Method: (A) (B) (C) (D) (H) (J) (P) (R) (T) (V) (W) (Z) 32

Drilled: air bored, cable, dug, hyd jetted, air reverse trenching, driven, drive wash, other 33

Date Drilled: OCT. 1951 9:51 Pump intake setting: 34 38

Driller: RASMUSSEN WELL CO. (CARROLL: RASMUSSEN) IDA GROVE, IA.

Life: (A) (B) (C) (J) (L) (M) (N) (P) (R) (S) (T) (Z) Deep 40 Shallow 39

Power: nat LPG Trans. or meter no. 41

(type): diesel, elec, gas, gasoline, hand, gas, wind; H.P. 42

Descrip. MP LSD 0 ft above below 1st, Alt. MP 1147

Alt. LSD: 1147 43 Accuracy: ALTIMETER 47

Water Level: ft above below MP; Ft below 1st 48 Accuracy: 51 Method determined 61

Date meas: 53 Yield: 55 gpm 59 Pumping period 60 hrs 68

Drawdown: ft 62 Accuracy: 63 65

QUALITY OF WATER DATA: Iron 5 Sulfate 8 Chloride 0 Hard. 8

Sp. Conduct K x 10⁶ 5 Temp. 57 74 76 77 79

Taste, color, etc. 77 79

089-40W-35666

Well Number

42.25.15 N 00532.35

HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD 19 Physiographic Province: CENTRAL LOWLAND 2 Section: WEST

1. AKE B Drainage Basin: LITTLE SIoux J.B.C Subbasin: 20 21

Topo of (D) (F) (H) (S) (T) (V) 27 F

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

MAJOR CRETACEOUS LOWER K1 DAKOTA SANDSTONE D1

AQUIFER: system series 28 29 aquifer, formation, group 30 31

Lithology: FINE SANDSTONE 2 32 33 Origin: MARINE 6 34 Aquifer Thickness: ft

35 37 Length of well open to: ft 38 40 Depth to top of: 381 ft 3 8 1

MINOR system series 44 45 aquifer, formation, group 46 47

AQUIFER: Lithology: Origin: 30 Aquifer Thickness: ft

51 53 Length of well open to: ft 54 56 Depth to top of: ft 57 59

Intervals Screened:

Depth to consolidated rock: 381 ft 60 3 8 61 Source of data: WELL CUTTINGS C

Depth to basement: ft 65 68 Source of data:

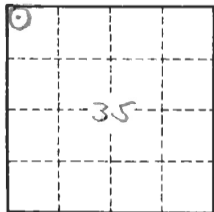
Surficial SANDY TIL BT Infiltration characteristics: POOR 72 4

material: 70 75 Coefficient Storage: 76 78

Coefficient Trans: gpd/ft 73 75

Coefficient Perm: gpd/ft 2 Spec cap: gpm/ft Number of geologic cards:

CASING: NO INFORMATION



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

5120

RECORD OF WELL

Location:

Town: Holstein (NE)
(SW): County Ida

NW-NW-NW sec. 35 T 89 N., R 40 W. Twp.

	25	

Well name and number Holstein town well C1951

Owner _____ Address _____

Tenant _____ Address _____

Contractor Rasmussen well Co Address Ida Grove

Drillers CANNOLL RASMUSSEN

Drilling dates Oct-Nov 1951

Well data:

Elevations: Drilling curb _____ feet: Land surface 147 feet

Determined by CF Berkstresser Paulin Alt

Topographic position Hill-top

Total depth: Reported 430' feet, Measured _____ feet

Drilling method Cable-tool

Hole and casing data _____

Original depth to water _____ ft. above _____ ft. below _____ Date _____

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

Sources of water: Principal _____; Others _____

Production data: _____ Date _____

Static depth to water _____ Measuring point _____

Pumping level _____ at _____ g.p.m. _____

Specific capacity _____ 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 or productions: _____ g.p.m. for _____ hrs. a day

Use of water _____

WATER ANALYSES (in parts per million)

Date samples	_____	_____	_____	_____
Samples by	_____	_____	_____	_____
Total solids	_____	_____	_____	_____
Insoluble matter	_____	_____	_____	_____
Alkalinity (Meo)	_____	_____	_____	_____
Alkalinity (Phn)	_____	_____	_____	_____
pH	_____	_____	_____	_____
Fe ₂ O ₃ + Mn ₂ O ₃ +Al ₂ 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 3-430 No. spls. 56 No. dupls. & cond. 4.6

Spls. prepared by Kallson Washed range 216-430 by Kallson 11/6/51

Driller's log and cond. No

Insoluble residues: Prepared by _____ Studied by _____ Strip log _____

Microscopic study _____ strip log OCT. 1951

Gen. log _____ Correl. by NORTHUP

UNITED STATES DEPARTMENT OF THE INTERIOR

Geological Survey
Water Resources DivisionLocal Well No. 089-40W-35 BBBAquifer Code(s) K1D1Owner's Name HOLSTEIN CITY (1951)W Number 05120Water Quality
(ppm)

Card Q

State: Iowa 1.9 County: LDA 4.7 Town: HOLSTEIN, IOWA

Well No. 422915N 0953235 Seq. No. 1 Date 070561

Latitude Longitude

Sampling Depth 430 Type 1 Kx10⁶ 11650 pH 7.1 Temp. °F

SiO₂ 29 Ca 208 Mg 54 Na 95 K 7.2

HCO₃ 383 CO₃ 0 SO₄ 618 Cl 5 Source No. 3 Q

Card R

Duplicate Columns 1-25 from Card Q

F 4 NO₃ 4 PO₄ B Al Fe 20

Mn 79 Cu Pb Zn

Solids Hardness

Determined 1300 Calc. Ca, Mg 740 Non-Carb. 426

Color No. R

Card S

Duplicate Columns 1-25 from Card Q

Br I Alk. as CaCO₃ 314 Free CO₂ SAR

RSC ABS

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

No. S
80Recorded by: D. AARONSONPunched by: Date: Published:

UNITED STATES DEPARTMENT OF THE INTERIOR

Geological Survey
Water Resources DivisionLocal Well No. 089-40W-35BBBAquifer Code(s) K1D1Owner's Name HOLSTEIN CITY (1951)W Number 05120Water Quality
(ppm)

Card Q

State: IOWA 19 County: LDA 47 Town: HOLSTEIN, IOWA
Well No. 422915N 0953235 Seq. No. 1 Date 072467
Sampling Depth 430 Type 1 Kx10⁶ 1900 pH 6.9 Temp. °F 57
SiO₂ 18 Ca 244 Mg 61 Na 120 K 13
HCO₃ 361 CO₃ 0 SO₄ 780 Cl 7.5 Source No. 3 Q

Card R

Duplicate Columns 1-25 from Card Q

F 1.0 NO₃ 1 PO₄ 1 B 1 Al 1 Fe 1.3
Mn 93 Cu 1 Pb 1 Zn 1
Determined 1520 Solids 1 Calc. 1 Ca, Mg 862 Hardness Non-Carb. 566
Color 1 No. R

Card S

Duplicate Columns 1-25 from Card Q

Br 1 I 1 Alk. as CaCO₃ 296 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. S
80Recorded by: D. A. ARONSONPunched by: T Date: _____

Published: _____