

Punched FCH
Verified PMJ

WRD Exp. (CW)
Aug. 1964

U. S. DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Water Resources Division Well Schedule Form

MASTER CARD

Record by P.J. Horick Source of data Files Date 5/3/65 Map H. & T.

State Iowa County Lyon (or town) 60

Latitude: 43 18 47 N Longitude: 09 6 26 07 Sequential number: 1

Lat-long accuracy: 2 T. 98 S. R. 47 Sec 18, NE 1/4, NE 1/4, SW 1/4 5 PM

Local well number: 019847W1822C Other number: W-15926

Local use: 15926 63CITY 3 Owner or name: INWOOD Address: _____

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

Use of water: (A) Air cond, (C) Comm, (D) Dewatering, (F) Fire, (H) Dom, (I) Irr, (N) Ind, (P) P-S, (S) Stock, (T) Instit, (U) Unused _____ P

Use of well: (A) Anode, (D) Drain, (C) Seismic, (O) Obs, (P) Oil-gas, (R) Recharge, (S) Spring, (T) Test, (U) Unused, (W) Withdraw, (X) Waste, (Z) Destroyed _____ W

DATA AVAILABLE: Well data 2 Freq. W/L meas.: INVENTORY 0 Field aquifer char. _____ 0

Hyd. lab. data: _____ 0

Qual. water data; type: _____ C

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

Aperture cards: _____ yes _____ 0

Log data: GEOLOGIST LOG _____ G

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD Depth well: 509 ft 509 Meas. rept. accuracy _____ 6

Depth cased; (first perf.) _____ ft _____ Casing type: Std Black; Diam. 6 in _____ 0

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

Method Drilled: (A) air bored, (B) cable, (C) dug, (D) hyd jetted, (H) air rot, (J) percussive, (P) reverse, (R) trenching, (S) driven, (T) wash, (V) drive, (W) other _____ H

Date Drilled: JULY 1963 9:6:3 Pump intake setting: 356 ft 3:56

Driller: Leeds Well Co., Sioux City, Iowa

Lift (type): (A) air, (B) bucket, (C) cent, (J) jet, (L) multiple, (M) multiple, (N) none, (P) piston, (R) rot, (S) submerg, (T) turb, (U) other _____ S Deep _____ D

Power (type): (nat) diesel, (elec) gas, (LPG) gasoline, (hand) hand, (gas) gas, (wind) wind, (H.P.) H.P. _____ 5 Trans. or meter no. _____

Descrip. MP LSD _____ ft above _____ below lsd, Alt. MP 1462

Alt. LSD: 1462 1462 Accuracy: ALTIMETER _____ 7

Water Level 285 ft above _____ below MP; Ft below lsd 285 Accuracy: DRILLER'S LOG _____ 3

Date meas: JULY 1963 7:6:3 Yield: 20 gpm _____ 20 Method determined _____ 0

Drawdown: _____ ft _____ Accuracy: _____ _____ hrs _____ 0

QUALITY OF WATER DATA: Iron 63.3 ppm _____ Sulfate 494 ppm _____ Chloride 10 ppm _____ Hard. 643 ppm _____ 8

Sp. Conduct 1380 K x 10⁶ _____ 5 Temp. 55.5 F _____ 55 Date sampled 20 JUNE 966 _____ 8

Taste, color, etc. _____

Well Number 43, 18, 50^N 096, 26, 10.1

HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD Physiographic Province: CENTRAL LOWLAND 1:2 Section: DISSECTED

TILL PLAIN Drainage Basin: BIG SNUX 3:6 A Subbasin: _____

Topo of well site: (D) _____ (F) _____ (H) _____ (S) _____ (T) _____ (V) _____

MAJOR AQUIFER: Cretaceous LOWER KIT Dakota Sandstone D

Lithology: _____ Origin: 6 Aquifer Thickness: _____ ft

Length of well open to: _____ ft Depth to top of: 413 ft 9:1:3

MINOR AQUIFER: E or PE _____ _____

Lithology: _____ Origin: _____ Aquifer Thickness: _____ ft

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

Intervals Screened: _____

Depth to consolidated rock: 310 ft. 3:1:0 Source of data: WELL CUTTINGS C

Depth to basement: _____ ft _____ Source of data: _____

Surficial material: SANDY TILL 8:1:1 Infiltration Characteristics: POOR 4

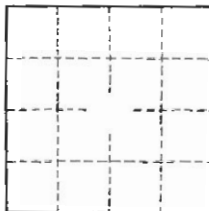
Coefficient Trans: _____ gpd/ft _____ Coefficient Storage: _____

Perm: _____ gpd/ft² ; Spec cap: _____ gpm/ft; Number of geologic cards: _____

Casing: 415' of 6" set at 415'
 105' of 5" perforated
 slot size 1/8"

5" pipe extends
 into 6" pipe

Amount of perforated pipe not given



15926

IOWA GEOLOGICAL SURVEY
In Cooperation with U.S. Geological Survey
RECORD OF WELL

Location: in city park

Town: Inwood (NE) County Lyon
(SW)

C NE 1/4 Sec. 18, T. 98, N., R. 47 (W) Twp.

Well name and number 3

Owner INWOOD CITY WELL #3 Address Inwood

Tenant _____ Address _____

Contractor Leeds Well Co. Address Sioux city

Drillers _____

Drilling dates June 6 to July 6, 1963

Well data:

Altitudes: Drilling curb _____ feet; Land surface 1462 feet

Determined by Attineter (PDX)

Topographic position _____

Total depth: Reported 509 feet; Measured _____ feet

Drilling method Rotary

Hole and casing data 415' 6" 105' of 5"

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

Source of data _____

UNITED STATES DEPARTMENT OF THE INTERIOR

Geological Survey
Water Resources Division

Local Well No. 098-47W-18AAC

Aquifer Code(s) KIDI

Water Quality
(ppm)

Owner's Name LNWOOD, IOWA

W Number 15926

Card Q

State: IOWA 1 9 County: LYON 6 0 Town: LNWOOD, IOWA

Well No. 4 3 1 8 4 7 N 0 9 6 2 6 0 7 Seq. No. 1 Date 0 6 3 0 6 6

Sampling Depth 5 0 9 Type 1 Kx10⁶ 1 0 6 0 pH 7.5 Temp. °F 5 5

SiO₂ 1 0 Ca 1 6 4 Mg 5 6 Na 5 4 K 1 5

HCO₃ 3 5 4 CO₃ 0 SO₄ 4 9 4 Cl 1 0 3 Q

Card R

Duplicate Columns 1-25 from Card Q

F 7 NO₃ 1 2 PO₄ B Al Fe 3 3

Mn 0 8 Cu Pb Zn

Determined 1 0 6 0 Solids Calc. Ca, Mg 6 4 3 Hardness 3 5 3

Color No. R

Card S

Duplicate Columns 1-25 from Card Q

Br I Alk. as CaCO₃ 2 9 0 Free CO₂ SAR

RSC ABS

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

No. S
80

Recorded by: D. AARONSON

Punched by: T Date: _____

Published:

[1] From: pvandorpe 7/29/93 8:06AM (465 bytes: 6 ln)

Priority: Low

To: jgilmore

Subject: GEOSAM vs. strip log

----- Message Contents -----

W-15926 (Lyon County, T98, R47, Sec. 18):

-- in GEOSAM, labeled Lyon's City Park; from GEO, 0'-310'

Pleistocene, 310'-413' Cretaceous, 413'-509' Dakota.

-- from strip log, labeled Inwood City Well #3 (MWSI concurs);

stratigraphy, 0'-310' Pleistocene, 310'-413' Carlisle, 413'-485'

Dakota, 485'-509' Precambrian.

Lyon

February 10, 1964

City Clerk
Inwood,
Iowa

Dear Sir:

We have completed the examination of well cuttings from the Inwood city well (1963).

A copy of our geologic log is enclosed for your files.

Very truly yours,

H. G. Hershey

HGH/m
Enclosure (1)