

GW Neola Sen Lake
Pottawattamie Co.

February 24, 1969

Mr. George Cook
Water Superintendent
Neola, Iowa 51559

Dear Mr. Cook:

Enclosed is a report on the mineral analysis of water from the Neola Municipal well as shown by a sample collected by Mr. L. Steele, of our staff, on June 10, 1968.

If you have any questions concerning this report, please do not hesitate to let me hear from you.

Very truly yours,

J. G. Hershey

HGH/njc
Enclosure

GW Neola town well
folder 1966

October 31, 1966

Town Clerk
Neola, Iowa

Dear Sir:

We have completed the examination of well cuttings from the Neola Town Well #4 (1966).

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

Very truly yours,

Hershey

HGH/l
Enclosure

4430 Commercial Avenue - Omaha, Nebraska

TEST WELL REPORT

City and State Neola, Iowa

Date May 18, 1966

Contract Village of Neola

Driller Donald Oseka

Test No. 66-1

Helpers Pat Donovan

Static Water Level 12' 6"

Test Log

0' - 15'
 15' - 36'
 36' - 41'
 41' - 46'
 46' - 48'
 48' - 50'
 50' - 52'
 52' - 69'
 69' - 69' 6"
 69' 6" - 78'
 78' - 79'
 79' - 80' 6"
 80' 6" - 90'
 90' - 94'
 94' - 102'

Black silty soil
 Blue silty clay
 Blue sandy clay
 Coarse sand and fine sand
 Blue sandy clay
 Gravel and boulders
 Blue clay
 Coarse sand and fine sand - gray color
 Blue clay
 Coarse sand and fine sand, trace of small gravel
 Yellow clay
 Rusty color sand, rock chips
 Reworked Dakota sandstone and limestone chips, trace of shale streaks
 White and yellow shale
 Dakota sandstone, medium size

Size Mud Pit—Length 8' , Width 6' , Depth 2'

WATER BEARING FORMATION DATA

Depth	Mud Viscosity	Inches Mud Taken from Pit	Drilling Time
41' to 50'	36 Sec.	1	
52' to 61'	36 Sec.	1½	
61' to 71'	36 Sec.	1	
71' to 81'	36 Sec.	1	
81' to 91'	36 Sec.	1	
91' to 101'	36 Sec.	1	
to			

LOCATION:

REMARKS:

Layne-Western Company

4430 Commercial Avenue - Omaha, Nebraska

TEST WELL REPORT

PAGE 2

City and State Neola, Iowa Date May 18, 1966
Contract Village of Neola Driller Donald Oseka
Test No. 66-1 Helpers Pat Bonovan
Static Water Level 12' 6"

Test Log

102'	- 108' 6"	Yellow and gray shale
108' 6"	- 115'	Dakota sandstone, medium size
115'	- 129'	Dakota sandstone fine, tighter with a trace of shale
129'	- 130' 6"	Yellow shale
130' 6"	- 134'	Blue shale
134'		Limestone

Size Mud Pit—Length 8' , Width 6' , Depth 2'

WATER BEARING FORMATION DATA

Depth	Mud Viscosity	Inches Mud Taken from Pit	Drilling Time
101' to 111'	36 Sec.	1	
111' to 121'	36 Sec.	2	
121' to 129'	36 Sec.	1½	
to			
to			
to			
to			

LOCATION:

Town Park, near the tennis court

REMARKS:

This should pump 100 GPM if enough screen is put in.

This info from Leon Steele USGS 6/10/68
re Neola Iowa town wells

Pioneer Lumber Company

ORDNANCE ROAD

ANKENY, IOWA



Complete
Stock

of
6.0
2.0
18

~~PRESSURE TREATED
OR UNTREATED
BRIDGE LUMBER
PLANK AND PILING
UTILITY AND
TELEPHONE POLES
CROSSARMS~~

—OFFICE TELEPHONE 964-4281—

ACROSS ST. PAUL P.O.
#1 NEOLA WELL

T.D. 53

DRILLED 1953 BY RASMUSSEN

MINERAL # 3342 MAR 58

#3 NEOLA WELL T.D. 41

DRILLED 1948 BY LAYNE WEST
AT CITY SHED.

MINERAL # 3344 FEB. 62

#2 NEOLA WELL T.D. 83'

DRILLED 1953 BY RASMUSSEN
AT CITY SHED.

MINERAL NO 3343 FEB 62

~~NO~~ MIN WATER SYSTEM - JUST FOR
FARMERS

TRUCK OR CARLOAD DELIVERY

04.11.5012 WIEL 34.1.02
~~72-120~~

~~Look out NEXT TOP SHEET
SCREEN PLANIT SHOULD SHOW~~

Neola
Well No 2 NOT GOOD FOR SYSTEM
Just for Filing FARMERS
TANKS

UNITED STATES DEPARTMENT OF THE INTERIOR

Geological Survey
Water Resources Division

Local Well No. 077-42W-25ABB

Aquifer Code(s) KIDI QGGX

Water Quality
(ppm)

Owner's Name NEOLA CITY WELL #4 (1966)

W Number 18833

Card Q

State: Iowa 1 2 County: POTTAWATTAMIE 3 4 Town: NEOLA, IOWA

Well No. Latitude Longitude Seq. No. Date M D Y

4 1 2 6 5 3 N 0 9 5 3 7 0 9 1 0 5 1 7 6 8

Sampling Depth Type Kx10⁶ pH Temp. °F

1 2 2 1 6 7 0 7.1 59

SiO₂ Ca Mg Na K Source No.

2 9 . 9 6 . 3 3 . 8 . 6 2 . 3

HCO₃ CO₃ SO₄ Cl 3 Q

3 8 8 0 6 3 . 1 .

Card R

Duplicate Columns 1-25 from Card Q

F NO₃ PO₄ B Al Fe

. 3 . 5 1 . 3

Mn Cu Pb Zn Solids Hardness

2 . 2 4 4 0 3 7 6 Non-Carb. . . 5 8

Color No.

. . . R

Card S

Duplicate Columns 1-25 from Card Q

Br I Alk. as CaCO₃ Free CO₂ SAR

. 3 1 8

RSC ABS Ra U

.

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

.

No. 5
80

Recorded by: D. ARONSON

Punched by: T Date: _____

Published: _____

UNITED STATES DEPARTMENT OF THE INTERIOR

Geological Survey
Water Resources Division

Local Well No. 077-42W-25ABB

Aquifer Code(s) KIDI QGGX

Water Quality
(ppm)

Owner's Name NEOLA CITY WELL #4 (1966)

W Number 18833

Card Q

State: IOWA 19 County: POTTAWATTAMIE 78 Town: NEOLA, IOWA

Well No. Latitude Longitude Seq. No. Date

Sampling Depth Type $K \times 10^6$ pH Temp. °F

SiO₂ Ca Mg Na K Source No.

HCO₃ CO₃ SO₄ Cl

Card R

Duplicate Columns 1-25 from Card Q

F NO₃ PO₄ B Al Fe

Mn Cu Pb Zn

Determined Solids Ca, Mg Hardness Non-Carb.

Color No. R

Card S

Duplicate Columns 1-25 from Card Q

Br I Alk. as CaCO₃ 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: _____