



W211

New Albin City Well City Supply

Date Drilled
Fin. Oct 7 1925
Oto Meyer Driller

Artesian

Blue rk Gummy sh or slt.	185 - 220' - 270'
Red rk " " " "	270 - 280
Blue rk (slate rk)	280 - 302'
Blue sand	302 - 365
White sand rock	365 - 467 1/2
Blue rk	467 1/2 - 515'
White sand rk. crse (water sd)	515 - 575
Red sand rock	575 - 586

White }
orange } sequence below 600 - Red sd high in water
red }

10" Steel pipe to 145' driven
8" hole (open) to bottom

1st flow at 365'

Head 8' above surf at time
pumped to level of ground after 24 hrs

Marshal
City Imhoff.

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

W-0211

RECORD OF WELL

Location:

Town: New Albin

(N E)
(S W)

County Albany

C- NW- NW sec. 11 T 100 N., R. 4 W. 100 Twp.

0		
	11	

Well name and number City Well

Owner City of New Albin

Address _____

Tenant _____

Address _____

Contractor Otto Meyer

Address New Albin.

Drillers _____

Drilling dates 1925

Well data:

Elevations: Drilling curb 654 feet; Land surface _____ feet

Determined by _____

Topographic position _____

Total depth: Reported 586 feet, Measured _____ feet

Drilling method auger

Hole and casing data 10" steel casing to 115', 8" hole to bottom.

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

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

Sources of water: Principal mt. Simon; Others _____

Production data:

Date Aug 31, 1938Static depth to water 6'8"Measuring point CurbPumping level 13'9"at 100 g.p.m.Specific capacity _____ g.p.m. per ft. drawdown; Temperature 55 1/4 °F.Pump data: Type pump Cylinder Column Dia. _____ Length _____

Cylinder or bowls: Dia. _____ Length _____ Suction pipe _____

Power Electricity Airline _____

Estimated rate of production: _____ g.p.m. for _____ hrs. a day

Use of water _____

WATER ANALYSES (in parts per million)

Date samples Aug 31, 1938Sampled by W.P. SchultTotal solids 356.0Insoluble matter 3.5Alkalinity (Meo) 352.0Alkalinity (Phn) 0.0pH 7.3 $\text{Fe}_2\text{O}_3 + \text{Mn}_2\text{O}_3 + \text{Al}_2\text{O}_3$ 1.5Alkali as sodium 14.0Calcium 50.0Magnesium 59.1Iron (unfiltered) 0.2Manganese 0.00Nitrate 0.00Fluoride 0.0Chloride 10.0Sulfate 17.6Bicarbonate 429.4Hardness (ppm) 368

Hardness (gpg) _____

Remarks _____

Laboratory data:

Sample storage location _____

Sample range 165-585No. spls. 14No. dupls. & cond. 14 cond.

Spls. prepared by _____

Washed range _____

by _____

Driller's log and cond. _____

Insoluble residues: Prepared by _____

Studied by _____

Strip log _____

Microscopic study slufstrip log sluf

Gen. log _____

Correl. by sluf

①

New Albin
W-0211

NEW ALBIN CITY WELL
City Supply

El. 654

CNW NW 11 - 100 - 4W

Driller: Otto Meyer, New Albin, Iowa

Date Drilled: Finished October 7, 1925

Total Depth: 586'

Casing Record: 10" Steel pipe to 145' (Driven to bedrock)
8" Open hole to bottom

Head: Head at time of drilling was 8' above ground, but it
was pumped to the level of the ground after 24 hrs.
of pumping. Rate of pumping during test unknown.
First flow was obtained at 365'

Drillers Log

		<u>From</u>	<u>To</u>
Blue rock (Gummy shale or <u>sls.</u>)	85'	185'	270'
Red rock (Gummy shale or <u>sls.</u>)	10'	270'	280'
Blue rock (slate rock)	22'	280'	302'
Blue sand	63'	302'	365'
White sand rock	102'	365'	467½'
Blue rock	48'	467½'	515'
White sand rock (Course -- water sand)	60'	515'	575'
Red sand rock	11'	575'	586'

IOWA GEOLOGICAL SURVEY
Well or Water Sample Data

Bottle No. G-26

TOWN: New Albin COUNTY: Allamakee

LOCATION: Center NW 1/4 NW 1/4 Sec. 11 T. 100 N., R. 4 W. Iowa Twp.

OWNER OF WELL: Town of New Albin Well No. 1

USE OF WATER: City Supply (X); Private-Domestic (); Public Drinking (X); Live-stock (); Industrial (); School Supply (); Air Conditioning (); Cooling ();

CONSTRUCTION OF WELL: Drilled (X); Gravel-Pack type (); Driven (); Dug (); Bored ();

CONTRACTOR: H.R. Green Co., Cedar Rapids, Ia. DATE DRILLED: Completed Oct. 2, 1925

CASING OR CURBING DATA: (Show by diagram on opposite side of sheet the kind, length and depth of top and bottom of each size of pipe, the amount of overlaps, position of seals or packers, pipe perforation and screens, etc.) Cased 10" steel casing to 145', 8" Hole to Bottom

WELL DATA: 65' 45" * Elev. Pipe House Present 65' 45" 154 Ft. Depth 586' Final 586' Ft. Depth

Topographic Position of Well: Valley flat

Static Level (Depth to Water (Above) Curb) 6' 8" Ft. Pumping Level 13' 9" Ft.

Amount of Drawdown 6' 3" Ft. pumping at 100 g.p.m. in 2 hours 55 minutes.

Calculated gals. per ft. drawdown _____ g.p.m.

Capacity of Well _____ g.p.m. at _____ ft. drawdown.

Type of Pump Rumsey 3 cylinder pump. Power 7 1/2 hrs. Electricity

Depth of Bottom of Pump _____ ft. with _____ ft. of suction pipe.

TEMPERATURE: Air 79 1/4 °F.; Water 55 1/4 °F., measured after well had pumped 2 hrs.

50 mins. at 100 g.p.m.; 33 ft. from pump after water had passed through the following pipe 9' of 3" pipe leading to pump, 15' of 6" main 9 1/2' of 1/2" pipe to faucet Time 4.55 (P.M.)

SOURCE OF WATER: Recent (Type and Depth)

Glacial Formations (Type) _____ at _____ ft. to _____ ft.

Limestone or Dolomite (Age) _____ at _____ ft. to _____ ft.

Sandstone (Age) Cambrian (Mt. Simon) at 365' ft. to 585' ft.

Principal Producing Formation Mt. Simon ss

REMARKS: Top of casing 4' below curb or pump house floor. [Information obtained from Mr. Imhoff, water supt., New Albin] [Mr. Imhoff desires copy of Min. Anal.]

Sample taken for: Mineral Analysis (X); Sanitary Analysis ().
Data Collected by W.C. Schuldt; Date Aug 31, 1938.
Report Analysis to H. G. Hershey, Iowa Geological Survey, Iowa City.

* Ground elev. = 651 654

STATE											COUNTY							
DEG																		
MIN											LATITUDE							
SEC																		
N or S																		
DEG											LONGITUDE							
MIN																		
SEC																		
SEQ. NO.																		

WELL SCHEDULE
US GEOLOGICAL SURVEY
IOWA DISTRICT WRD

WELL NO. 0211 CO. ALLAMAKEE
OWNER NEW ALBIN CITY WELL #1 ADDRESS NEW ALBIN
DRILLER WELCH DATE DRLD 1925
MAP _____
SOURCE OF DATA FILE
DESCRIPTION M. P. LSD FEET (ABOVE) LSD _____
(BELOW)

CONTINUED FROM ABOVE	LOCAL WELL NUMBER																LOCAL USE																OWNER OR NAME																																			
	ACCURACY				T	R	E _w	SEC.	QUARTERS				W-NUMBER				OPTIONAL																																																			
	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80							
3	1	0	0	4	W	I	B	B								0	0	2	1	1	/	2	5	C	I	T	Y							I	N	E	W	A	L	B	I	N							M	P	W	I	D						G	A								
																	OWNERSHIP				WATER USE				WELL USE				WELL DATA				FREQ. W/L				FIELD CHAR				HYD LAB				QW-DATA				QW-FREQ.				PUMPAGE				APERTURE				LOG DATA				CARD DESIG			

WELL-DESCRIPTION CARD - B

[illegible]

HYDROGEOLOGIC CARD - C

[illegible]

CASING AND SCREEN (SIZE, TYPE, INTERVALS):

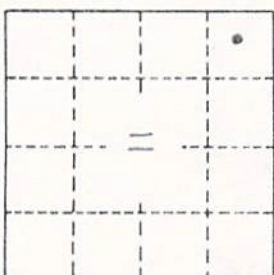
10" steel casing to 145'
8" hole to bottom

CODED BY MACGOWAN KD DATE 7-12-72

PUNCHED BY MHC GO WNN DATE 7-12-72

VERIFIED BY _____ DATE _____

SKETCH ON REVERSE: YES _____ NO _____



WELL NO. 0211

UNITED STATES DEPARTMENT OF THE INTERIOR
Geological Survey
Water Resources Division

W-0211
100 04 118B
NEW ALBIN CITY WELL #1

Water Quality
(ppm)

Card Q

State: IOWA 1.9 County: ALLAMAKEE 03 Town: NEW ALBIN

Well No. 432953N 0911720 Seq. No. 1 Date 091434

Sampling Depth Type Kx10⁶ pH Temp. °F

SiO₂ Ca 48 Mg 60 Na 90 K

HCO₃ 427 CO₃ SO₄ 13 Cl 80 Source No. 3 Q

Card R

Duplicate Columns 1-25 from Card Q

F 0 NO₃ 0 PO₄ 006 B Al Fe 090

Mn 0 Cu Pb Zn

Solids Hardness

Determined 357 Calc. Ca, Mg 366 Non-Carb. 16

Color No. R

Card S

Duplicate Columns 1-25 from Card Q

Br I Alk. as CaCO₃ 350 Free CO₂ SAR

RSC ABS

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

No. 5
80

Recorded by: MACGOWAN

Punched by: MACGOWAN Date: 7-12-72

Published:

UNITED STATES DEPARTMENT OF THE INTERIOR
Geological Survey
Water Resources Division

W-0211
100 04 118B
NEW ALBIN CITY WELL #1

Water Quality
(ppm)

Card Q

State: IOWA 19 County: ALHAMBREE 03 Town: NEW ALBIN

Well No. 432953N 0911720 Seq. No. 1 Date 083138

Sampling Depth Type Kx10⁸ pH 7.3 Temp. °F 55

SiO₂ Ca 50 Mg 59 Na 14 K C

HCO₃ 429 CO₃ SO₄ 18 Cl 10 Source No. 3 Q

Card R

Duplicate Columns 1-25 from Card Q

F 0 NO₃ 0 PO₄ 004 B Al Fe 020

Mn 0 Cu Pb Zn

Solids Hardness

Determined 356 Calc. Ca, Mg 368 Non-Carb. 16

Color No. R

Card S

Duplicate Columns 1-25 from Card Q

Br I Alk. as CaCO₃ 352 Free CO₂ SAR

RSC ABS

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

No. 5
80

Recorded by: MACGOWAN

Punched by: MACGOWAN Date: 7-12-72

Published:

UNITED STATES DEPARTMENT OF THE INTERIOR
Geological Survey
Water Resources Division

W-0211
100 04 11 B3
NEW ALBIN CITY WELL #1

Water Quality
(ppm)

Card Q

State: IOWA 1 9 County: ALLAMAKEE 0 3 Town: NEW ALBIN

Well No. 4 3 2 9 5 3 N 0 9 1 1 7 2 0 Seq. No. 1 Date 1 0 3 1 3 8

Sampling Depth Type Kx10⁶ pH 7 3 Temp. °F

SiO₂ Ca 5 0 Mg 5 9 Na 1 4 K C

HCO₃ 4 2 9 CO₃ SO₄ 1 8 Cl 1 0 Source No. 3 Q

Card R

Duplicate Columns 1-25 from Card Q

F 0 NO₃ 0 PO₄ 0 0 4 B Al Fe 0 2 0

Mn 0 Cu Pb Zn

Determined 3 5 6 Solids Ca, Mg 3 6 8 Hardness Non-Carb. 1 6

Color No. R

Card S

Duplicate Columns 1-25 from Card Q

Br I Alk. as CaCO₃ 3 5 2 Free CO₂ SAR

RSC ABS

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

No. S
80

Recorded by: MAC GOWAN

Punched by: MAC GOWAN Date: 7-12-72

Published:

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Geological Survey
Water Resources Division

W-0211
100 04W 11 B B
NEW ALBIN CITY WELL #1

Water Quality
(ppm)

Card Q

State: IOWA 19 County: ALLAMAKEE 03 Town: NEW ALBIN

Well No. 432953N 0911720 Seq. No. 1 Date 061658

Sampling Depth Type Kx10⁸ 630 pH 7.9 Temp. °F 55

SiO₂ 8.4 Ca 48 Mg 57 Na 31 K 20

HCO₃ 412 CO₃ 0 SO₄ 17 Cl 40 Source No. 3 Q

Card R

Duplicate Columns 1-25 from Card Q

F 0.1 NO₃ 0.9 PO₄ B Al Fe 0.48

Mn 0.05 Cu Pb Zn

Solids Hardness

Determined 353 Calc. Ca, Mg 356 Non-Carb. 18

Color No. R

Card S

Duplicate Columns 1-25 from Card Q

Br I Alk. as CaCO₃ 338 Free CO₂ SAR

RSC ABS

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

No. S
80

Recorded by: MACGOWAN

Punched by: MACGOWAN Date: 7-12-72

Published:

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Geological Survey
Water Resources Division

W-0211
100 04W 11 BB
NEW ALBIN CITY WELL #1

Water Quality
(ppm)

Card Q

State: IOWA 19 County: ALLAMAKEE 03 Town: NEW ALBIN

Well No. 432953N 0911720 Seq. No. 1 Date 012262

Sampling Depth Type Kx10⁶ pH Temp. °F

SiO₂ 10 Ca 46 Mg 54 Na 30 K 20

HCO₃ 378 CO₃ 0 SO₄ 19 Cl 30 Source No. 3 Q

Card R

Duplicate Columns 1-25 from Card Q

F 01 NO₃ 04 PO₄ B Al Fe 050

Mn 005 Cu Pb Zn

Solids Hardness

Determined 327 Calc. Ca, Mg 340 Non-Carb. 30

Color No. R

Card S

Duplicate Columns 1-25 from Card Q

Br I Alk. as CaCO₃ 310 Free CO₂ SAR

RSC ABS

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

No. S
80

Recorded by: MACGOWAN

Punched by: MACGOWAN Date: 7-12-72

Published:

UNITED STATES DEPARTMENT OF THE INTERIOR
Geological Survey
Water Resources Division

W-0211
100 04W11BB
NEW ALBIN CITY WELL
4#1

Water Quality
(ppm)

Card Q

State: IOWA 19 County: ALLAMAKEE 03 Town: NEW ALBIN

Well No. 432953N 0911720 Seq. No. 1 Date 072371

Sampling Depth Type Kx10⁶ 540 pH 7.5 Temp. °F

SiO₂ 8.4 Ca 43 Mg 47 Na 30 K 20

HCO₃ 337 CO₃ 0 SO₄ 35 Cl 40 Source No. 3 Q

Card R

Duplicate Columns 1-25 from Card Q

F 0.1 NO₃ 0.5 PO₄ B Al Fe 0.44

Mn 0.05 Cu 0 Pb 01 Zn 0.03

Solids Hardness

Determined 321 Calc. Ca, Mg 300 Non-Carb. 24

Color No. R

Card S

Duplicate Columns 1-25 from Card Q

Br I Alk. as CaCO₃ 276 Free CO₂ SAR

RSC ABS

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

No. S
80

Recorded by: MACGOWAN

Punched by: MACGOWAN Date: 7-12-72

Published: