

UNITED STATES DEPARTMENT OF THE INTERIOR

Geological Survey
Water Resources Division

Local Well No. 083-45W-04CBC

Aquifer Code(s) QGGX

Water Quality
(ppm)

Owner's Name ONAWA CITY#2(1947)

W Number 03148

Card Q

State: Iowa 19 County: MONONA 67 Town: ONAWA, Iowa

Well No. 420146N 0960546 Seq. No. 1 Date 100160

Sampling Depth 122 Type 1 Kx10⁶ 857 pH 7.8 Temp. °F 55

SiO₂ 34 Ca 124 Mg 31 Na 24 K 7.2

HCO₃ 542 CO₃ 0 SO₄ 51 Cl 8 Source No. 3 Q

Card R

Duplicate Columns 1-25 from Card Q

F 4 NO₃ 4 PO₄ B Al Fe 13

Mn 38 Cu Pb Zn

Determined 283 Solids Ca, Mg 440 Hardness Non-Carb. 0

Color No. R

Card S

Duplicate Columns 1-25 from Card Q

Br I Alk. as CaCO₃ 444 Free CO₂ SAR

RSC ABS

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

No. S
80

Recorded by: D. ARONSON

Punched by: T Date:

Published:

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Aquifer Code(s) QGGX

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Owner's Name ONAWA CITY #2 (1947)

W Number 03148

Card Q

State: Iowa 19 County: MONONA 67 Town: ONAWA, IOWA

Well No. 420146N Latitude Longitude 0960546 Seq. No. 1 Date 05 57

Sampling Depth 122 Type 1 Kx10⁶ 816 pH 77 Temp. °F

SiO₂ 35. Ca 115. Mg 37. Na 21. K 89.

HCO₃ 503 CO₃ 0 SO₄ 63. Cl 10. Source No. 3 Q

Card R

Duplicate Columns 1-25 from Card Q

F .4 NO₃ 3.1 PO₄ B Al Fe 5.5

Mn .3 Cu . Pb . Zn .

Determined 533 Solids Ca_lc. Ca, Mg 440 Hardness Non-Carb. 28

Color No. R

Card S

Duplicate Columns 1-25 from Card Q

Br . I . Alk. as CaCO₃ 412 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:

Monona

IOWA PRESS
CLIPPING BUREAU
Des Moines, Iowa

Democrat
Onawa, Iowa *GW*

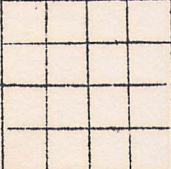
SEP 18 1947

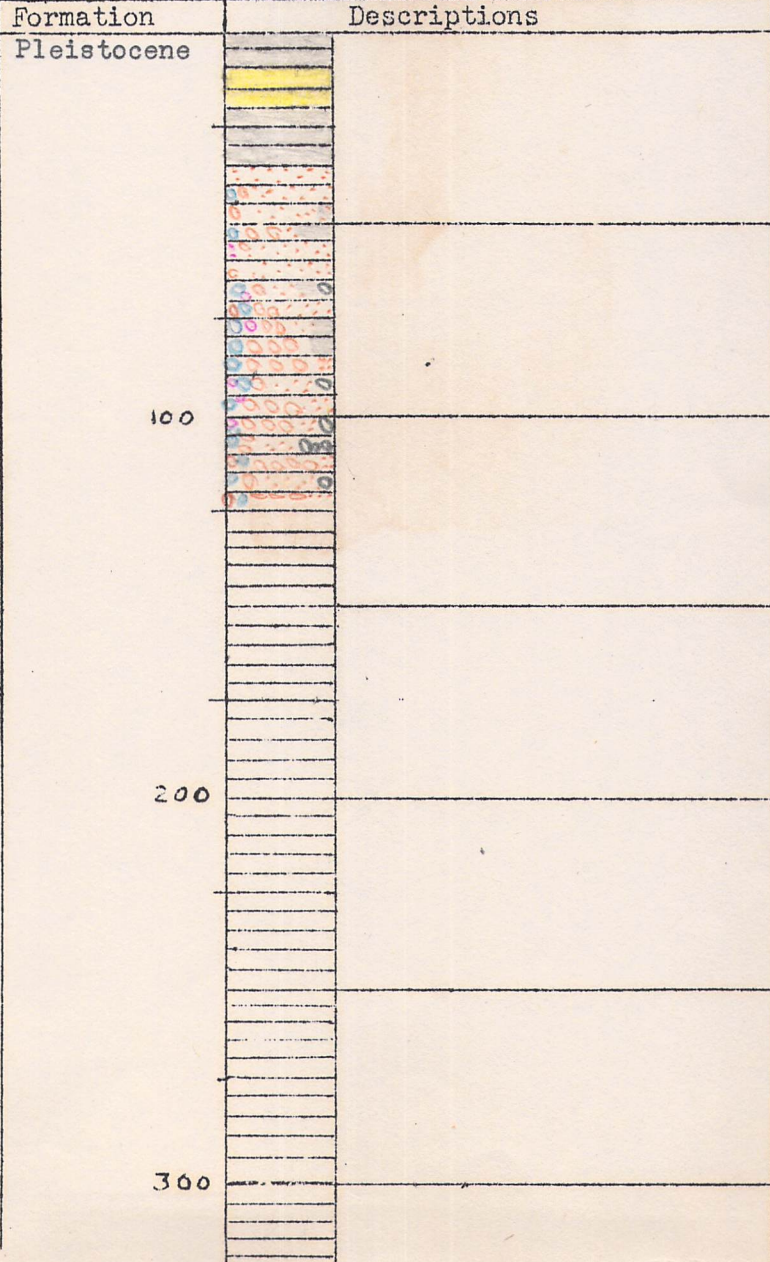
**City Starts on Another
Needed Improvement**

Work will begin in the next week, according to City Clerk Merle Mock, on a 122 foot gravel pack well for the city. The well will be located just north of the City Water Pumping Station. This improvement was made due to the fact that two of the older wells are now out of commission and no longer fit for use. The new well which is being put in by Lane-Western Company, of Omaha, will give about 960 gallons of water per minute with a 6 foot draw down however the Democrat understand that this figure is not near the capacity of the new well. The outside casings for the lowering of the well has arrived. The daily consumption of water in Onawa at the present time according to Clerk Mock is some 400,000 gallons daily, which at this supply is taxing the capacity of the present wells. Thus the need of the new well.

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IOWA GEOLOGICAL SURVEY
In Cooperation with
U. S. GEOLOGICAL SURVEY
Iowa City, Iowa

Name City Well No. 2	State Iowa		
Town Onawa	County Monona		
Contractor Layne-Western Co.	Driller Layne-Western Co.		
Drilling Dates Oct. 18- Dec. 17, 1947	T.83 N., R.45 W.		
Casing Record 94' of 16" pipe +2-92'			
S.W.L.		G.P.M.	D.D.
Elev.			
Remarks	T.D. 122'		
Logged By R. Wehmer	Date June 5, 1948	I.G.S. No. W-3148	



- Explanation of Colors
- Drift
 - Snd. & Grav.
 - Shale
 - Sandstone
 - Limestone
 - Dolomite
 - Chert
 - Silt
 - Coal
 - Siderite

W-3148

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

RECORD OF WELL

Location:



Town: ONAWA (NE)
 (SW): County MONONA
SW NW SW sec. 4 T 83 N., R. 45 W. Twp.

Well name and number CITY of ONAWA NO. 2 (1947)

Owner City of Onawa Address _____

Tenant _____ Address _____

Contractor Layne - Western Co. Address Omaha

Drillers Vernon Dyas

Drilling dates Oct. 18, 1947 - Dec. 17, 1947

Well data:

Elevations: Drilling curb _____ feet; Land surface 1051 feet

Determined by A. T. D. Ross - 49

Topographic position _____

Total depth: Reported 122 feet, Measured _____ feet

Drilling method Dug - Caisson

Hole and casing date	<u>0' to 20' - 52" hole</u>	<u>30' screen</u>
<u>94' of 16" pipe from</u>	<u>20' to 45' - 48"</u>	<u>from 92' to 122'</u>
<u>2' above ground</u>	<u>45' to 70' - 42"</u>	<u>slot size 4</u>
<u>to 92'</u>	<u>70' to 95' - 38"</u>	
	<u>95' to 122' - 39"</u>	

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 Pomona Column Dia. 6" Length _____
Cylinder or bowls: Dia. _____ Length 54 Suction pipe 10

Power _____ Airline _____

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

Use of water _____

WATER ANALYSES (in parts per million)

Date samples	_____	_____	_____	_____
Sampled 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 0-122 No. spls. 25 No. dupls. & cond. 29 - Fair

Spls. prepared by RKS Washed range None by _____

Driller's log and cond. Yes - Fair

Insoluble residues: Prepared by _____ Studied by Strip log

Microscopic study 0-122 strip log 6-5-48

Gen. log _____ Correl. by R. Wedner