

UNITED STATES DEPARTMENT OF THE INTERIOR
Geological Survey
Water Resources Division

W-0056
09805W30ACDC
WALKON CITY WELL #3

Water Quality
(ppm)

Card Q

State: IOWA 19 County: ALLAMAKEE 03 Town: WALKON

Well No. Latitude Longitude Seq. No. Date
431638N 0912834 1 091434

Sampling Depth Type Kx10⁶ pH Temp. °F
600 1 73

SiO₂ Ca Mg Na K Source No.
 76

HCO₃ CO₃ SO₄ Cl Source No.

Card R

Duplicate Columns 1-25 from Card Q

F NO₃ PO₄ B Al Fe
 012

Mn Cu Pb Zn

Solids Hardness

Color No. R

Card S

Duplicate Columns 1-25 from Card Q

Br I Alk. as CaCO₃ Free CO₂ SAR

RSC ABS 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
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W-0056
 09805 W 30 ACDC
 WAUKYON CITY WELL # 3

Water Quality
 (ppm)

Card Q

State: IOWA 19 County: ALLAMAKEE 03 Town: WAUKYON

Well No. Latitude Longitude Seq. No. Date
431638N 0912834 1 050657

Sampling Depth Type $K \times 10^6$ pH Temp. °F
890 1 488 77 51

SiO₂ Ca Mg Na K Source No.
14.. 79.. 22.. 20.. 21..

HCO₃ CO₃ SO₄ Cl Source No.
314 0 21.. 40.. 3 Q

Card R

Duplicate Columns 1-25 from Card Q

F NO₃ PO₄ B Al Fe
01.. 31.. 005

Mn Cu Pb Zn
005...

Determined Solids Hardness
309 288

Color No. R

Card S

Duplicate Columns 1-25 from Card Q

Br I Alk. as CaCO₃ Free CO₂ SAR
.... 257

RSC ABS Ra U
....

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-0056
09805W30ACDC
WAUKYON CITY WELL #3

Water Quality
(ppm)

Card Q

State: IOWA 19 County: ALLAMAKEE 03 Town: WAUKYON

Well No. Latitude Longitude Seq. No. Date
431638N 0912834 1 032361

Sampling Depth Type Kx10⁶ pH Temp. °F
890 1 543 75 52

SiO₂ Ca Mg Na K Source No.
171 90 18 20 14

HCO₃ CO₃ SO₄ Cl
332 0 20 20 3 Q

Card R

Duplicate Columns 1-25 from Card Q

F NO₃ PO₄ B Al Fe
01 80 006

Mn Cu Pb Zn
005

Solids Hardness
Determined Calc. Ca, Mg Non-Carb.
331 300 28

Color No. R

Card S

Duplicate Columns 1-25 from Card Q

Br I Alk. as CaCO₃ Free CO₂ SAR
... ... 272

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
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W-0056
 09805W 30 ACDC
 WAUKON CITY WELL #3

Water Quality
 (ppm)

Card Q

State: IOWA 19 County: ALLAMAKEE 03 Town: WAUKON

Well No. 431638N 0912834 Seq. No. 1 Date 050570

Latitude Longitude

Sampling Depth 615 Type 1 Kx10⁶ 530 pH 72 Temp. °F 52

SiO₂ 15.1 Ca 86.1 Mg 18.1 Na 22.2 K 10.0

HCO₃ 329 CO₃ 0 SO₄ 30.1 Cl 30.0 Source No. 3 Q

Card R

Duplicate Columns 1-25 from Card Q

F 01.1 NO₃ 46.1 PO₄ ... B ... Al ... Fe 06.0

Mn 005 Cu ... Pb ... Zn ...

Determined 311 Solids Calc. Ca, Mg 292 Hardness Non-Carb. 22

Color .. No. R

Card S

Duplicate Columns 1-25 from Card Q

Br ... I ... Alk. as CaCO₃ 270 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: 7-12-71

Published: _____

WAUKON (ALLAMAKEE COUNTY)

City Wells (No. 1, 2, and 3)

Location: SW $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 30, T. 98 N., R. 5 W., Makee Twp.

Elevation: 1295.75' (Floor of pump house)

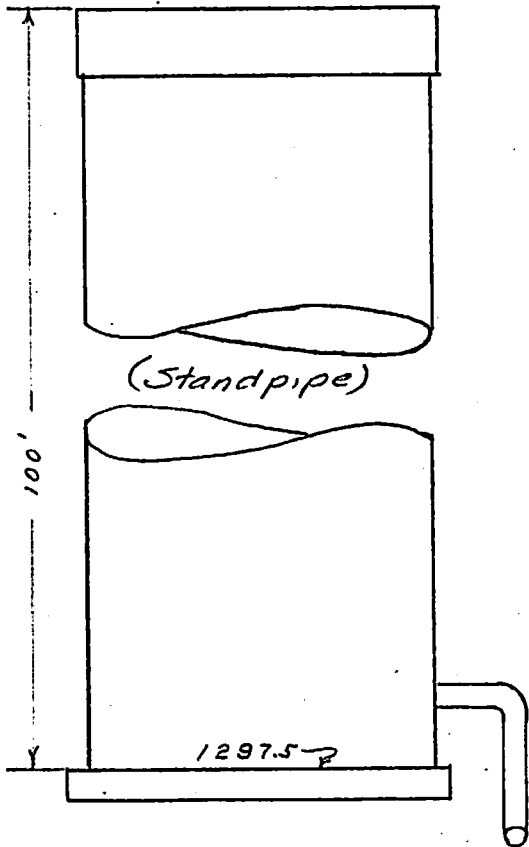
1290.75' (Floor of basement in pump house where booster pumps are located)

1295.76' (Top of concrete reservoir)

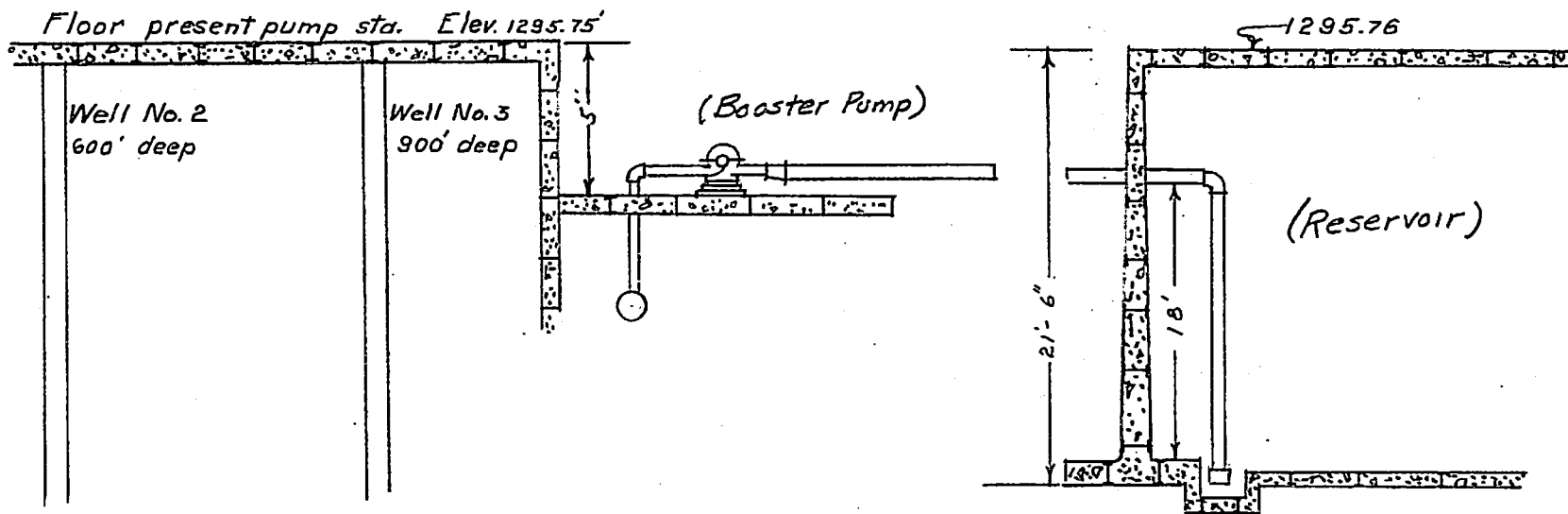
1297.5' (Top of base of standpipe)

For drilling curb, use 1295 feet.

K.E.A.
3-4-43



SKETCH B



GW Waukon Gen Data
Allamakee Co.

November 14, 1968

Mr. Gil Northway
Thorpe Well Company
Box 1567
Cedar Rapids, Iowa

Dear Mr. Northway,

As requested by phone, we are listing below the casing record for the Waukon City Well #3 drilled in 1914 by Gray Brothers:

34'	of 16 "	OD casing	0- 34'
156'	of 12½"	OD casing	0-156'
59'	of 10 "	liner	541-600'

This is an old record, of course, and may not turn out to be complete or accurate, but it is the best we have.

Please let us know if we can be of further service.

Yours very truly,

H. G. Hershey

HGH:RCN:wg

Waukon - city #3

TD - 910' (Franconia)

Loc: sec. 30, 98N, SW

Elev: 1297 (Tester) (1279' vol. 33)

Date drilled - 1914

Driller - W. H. Gray & Bros, Chicago

SWL - 308' (when drilled)

We have samples & analysis

(Pullan, 1934)

IOWA GEOLOGICAL SURVEY
Water Well Data Sheet

Gen

Survey Number W0056

Town Waukon County Allamakee T. 98 N., R. 5 W.

Name City Well No 3 Location SW-SE-SW 1/4 NE 1/4, Sec. 30

Contractor _____ Driller _____ Use _____

Construction _____ Drilling Dates _____ Drilling Depth _____

Topog. _____ Curb Elev. 1295 Ref. _____ Total Depth _____

Final above Static below Pumping Level curb Level _____ Draw down _____ gpm _____ Time pumped _____ Date _____

Depth to bot. pump _____ ft. with _____ ft. suction pipe. drawdown _____ Calc. g/ft. _____ Prin. _____ Prod. _____

Producing Horizons _____

Water levels and pumping tests on various horizons during drilling:

Depth Range	Stat. Level	Pump Level	Draw down	gpm.	Temp.	Producing horizons	Producing formations	Formations cased out

Additional information _____

Laboratory Data

Sample range 10 - 890 Number samples 106 Number Duplicates 106 Cond. Fair to Good
 Yes Summerford 10-890 Feb 24 1940
 Log No, Cond. _____ Boxed _____ Range _____ Date _____

Remarks _____

Microscopic Study Range _____ Strip Log _____ Gen. Log _____ Blue Print _____ Samples Washed 10-890
 Insol. Res. Study Range _____ Strip Log _____ Gen. Log _____ Insol. Res. Prepared _____ Well Corel. _____

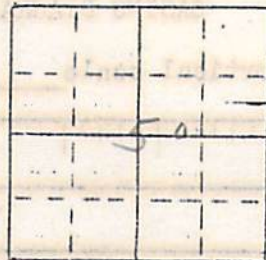
IOWA GEOLOGICAL SURVEY
In Cooperation with U. S. Geological Survey

W-0056

RECORD OF WELL

Location:

Town: Waukon (N E)
(S W): County Allamakee



SW-SE-SW-NE sec. 30 T 98 N., R. 5 W. Twp.

Well name and number City Well #3

Owner City of Waukon Address _____

Tenant _____ Address _____

Contractor W. H. Gray & Bros Address Chicago

Drillers _____

Drilling dates 1914

Well data:

Elevations: Drilling curb 1295 feet; Land surface _____ feet

Determined by _____

Topographic position _____

Total depth: Reported 910 feet, Measured _____ feet

Drilling method _____

Hole and casing data 16" O.D. casing 0-34', 12 1/2" 0-156', 10" 110' & 541-600'

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

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

Sources of water: Principal fracture; 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 of production: _____ g.p.m. for _____ hrs. a day

Use of water _____

WATER ANALYSES (in parts per million)

Date samples	_____	_____	_____	_____
Sampled by	_____	_____	_____	_____
Total solids	312.0	_____	_____	_____
Insoluble matter	18.8	_____	_____	_____
Alkalinity (Meo)	276.0	_____	_____	_____
Alkalinity (Phn)	_____	_____	_____	_____
pH	_____	_____	_____	_____
Fe ₂ O ₃ + Mn ₂ O ₃ +Al ₂ O ₃	_____	_____	_____	_____
Alkali as sodium	4.0	_____	_____	_____
Calcium	76.3	_____	_____	_____
Magnesium	18.6	_____	_____	_____
Iron (unfiltered)	0.1	_____	_____	_____
Manganese	0.0	_____	_____	_____
Nitrate	1.8	_____	_____	_____
Fluoride	0.0	_____	_____	_____
Chloride	3.0	_____	_____	_____
Sulfate	13.8	_____	_____	_____
Bicarbonate	329.4	_____	_____	_____
Hardness (ppm)	267.0	_____	_____	_____
Hardness (gpg)	_____	_____	_____	_____

Remarks _____

Laboratory data: _____ Sample storage location _____

Sample range 10-895 No. spls. 106 No. dupls. & cond. 106 4-6.

Spls. prepared by *Summerford* Washed range 10-890 by *Summerford*

Driller's log and cond. _____

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

Microscopic study *Guy & Schubert* strip log *Guy & Schubert*

Gen. log _____ Correl. by *Guy & Schubert*