

WELL SCHEDULE

U. S. DEPT. OF THE INTERIOR

GEOLOGICAL SURVEY

WATER RESOURCES DIVISION

MASTER CARD

Record by K. Wahl Source of data File Date 9-16-68 Map 1/63,360 Co Highway
State Iowa County 16 (or town) Iowa 48
Latitude: 41 39 30 N Longitude: 09 20 02 7 Sequential number: 1
Lat-long accuracy: 2 T. 79 S. R. 10 E. Sec 9 SE 1 SE 1 SE 5
Local well number: 07910W0900D Other number: W-15893
Local use: 15893 63 CITY 4 Owner or name: Williamsburg Iowa
Owner or name: WILLIAMSBURG IA Address: Williamsburg, Ia.
Ownership: County, Fed Gov't, City, Corp or Co, Private, State Agency, Water Dist M
Use of Air cond, Bottling, Comm, Dewater, Power, Fire, Dom, Irr, Mod, Ind, Rec, water: P
Use of (S) (T) (U) (V) (W) (X) (Y) (Z) Stock, Instit, Unused, Repressure, Recharge, Desal-P S, Desal-other, Other P
Use of (A) (D) (G) (H) (I) (J) (K) (L) (M) (N) (O) (P) (Q) (R) (S) (T) (U) (V) (W) (X) (Y) (Z) well: Anode, Drain, Seismic, Heat Res, Obs, Oil-gas, Recharge, Test, Unused, Withdrew, Waste, Destroyed W
DATA AVAILABLE: Well data 1 Freq. W/L meas.: Original Field aquifer char. 0
Hyd. lab. data: Complete
Qual. water data: type: Complete
Freq. sampling: Irregular 1-23-67 Pumpage inventory: I Aperture cards: G:D
Log data: Sample log, driller's log

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD Depth well: 160 ft Meas. Driller's log
Depth cased: 14 ft Casing type: Steel ; Diam. 10 in
Finish: (C) porous concrete, (F) gravel w. (G) gravel w. (H) horiz. open perf., (I) screen, (J) gallery, end, (K) other, (L) other, (M) other, (N) other, (O) other, (P) other, (Q) other, (R) other, (S) other, (T) other, (U) other, (V) other, (W) other, (X) other, (Y) other, (Z) other
Method: (A) air, (B) bored, (C) auger, (D) dug, (E) hyd jetted, (F) air reverse, (G) percussion, (H) rotary, (I) other, (J) other, (K) other, (L) other, (M) other, (N) other, (O) other, (P) other, (Q) other, (R) other, (S) other, (T) other, (U) other, (V) other, (W) other, (X) other, (Y) other, (Z) other
Date Drilled: 8-27-63 Pump intake setting: 963 ft
Driller: Hoeg & Ames 1. Lincoln Ia.
Lift (type): (A) air, (B) bucket, (C) cent, (D) jet, (E) multiple, (F) multiple, (G) none, (H) piston, (I) rot, (J) submerg, (K) other, (L) other, (M) other, (N) other, (O) other, (P) other, (Q) other, (R) other, (S) other, (T) other, (U) other, (V) other, (W) other, (X) other, (Y) other, (Z) other
Power (type): (A) diesel, (B) elec, (C) gas, (D) gasoline, (E) hand, (F) gas, (G) wind, (H) H.P., (I) other, (J) other, (K) other, (L) other, (M) other, (N) other, (O) other, (P) other, (Q) other, (R) other, (S) other, (T) other, (U) other, (V) other, (W) other, (X) other, (Y) other, (Z) other
Descrip. MP Land Surface ft above LSD, Alt. MP 851
Alt. LSD: 851 Accuracy: Altimeter 1967
Water Level: 126 ft above MP; Ft below LSD 126 Accuracy: Driller's log
Date meas: 8-27-63 Yield: 195 gpm Method determined: 8
Drawdown: 21 ft Accuracy: Driller's log Pumping period: 8 hrs
QUALITY OF WATER DATA: Iron ppm Sulfate ppm Chloride ppm Hard. ppm
Sp. Conduct K x 10 Temp. °F Date sampled
Taste, color, etc.

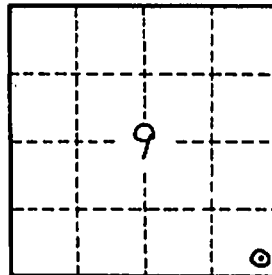
Well No. 079-10W-09 ODD

Well No. 079-10w-09 D00Latitude-longitude 41.39.30 N 092.00.27
d m s d m s

HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD
 Physiographic Province: Central Lowland 1:2 Section: Dissolved Till
Plains E Drainage Basin: Town 2:5:0 Subbasin: 26
 (D) (C) (E) (F) (H) (K) (L)
 Topo of well site: depression, stream channel, dunes, flat, hilltop, sink, swamp,
 (Q) (P) (S) (T) (U) (V)
 offshore, pediment, hillside, terrace, undulating, valley flat 27
 MAJOR Aquifer: Quaternary Pleistocene Q:G G:X
 system series aquifer, formation, group
 Lithology: Sand & Gravel R Origin: Outwash Q Aquifer Thickness: 16 ft
 Length of well open to: 10 ft Depth to top of: 138 ft 1:3:8
 MINOR Aquifer: 1:1:6 10 ft 1:0 138 ft 1:3:8
 system series aquifer, formation, group
 Lithology: 1:1:6 10 ft 1:0 138 ft 1:3:8
 Length of well open to: 10 ft Depth to top of: 138 ft 1:3:8
 Intervals Screened: 144 to 154
 Depth to consolidated rock: 160+ ft Source of data: Sample log
 Depth to basement: 160+ ft Source of data: Sample log
 Surficial material: Loess Q Infiltration characteristics: Poor
 Coefficient Trans: 160+ gpd/ft Coefficient Storage: 160+
 Coefficient Perm: 160+ gpd/ft²; Spec cap: 160+ gpm/ft; Number of geologic cards: 160+

Casing: 10-in from surface to 144'
 10-in screen from 144 to 154
 8-in from 154 to 160

Well No. 079-10w-09 D00

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

Location: IN CITY PARK

Town: Williamsburg (NE) County Towa
(SW)

SE SE SE Sec. 9, T. 79, N. 10 (W) 10 Twp.

Well name and number _____

Owner Town Well #4 (1963) Address Williamsburg, Iowa

Tenant _____ Address _____

Contractor Haeg & Barnes Inc Address Lincoln, Iowa

Drillers W. M. HOGAN

Drilling dates Aug. 16-27, 1963

Well data:

Altitudes: Drilling curb _____ feet; Land surface 851 feet 178 ⁴ EST

Determined by alt 67

Topographic position _____

Total depth: Reported 160 feet; Measured _____ feet

Drilling method Cable

Hole and casing data 25' or 14" CSG.

14.5' 11" or 10" PIPE

10' or 10" SCREEN

Original depth to water _____ ft. ^{above} below _____ Date _____

Source of data _____

Sources of water: Principal 140-154

Others _____

PRODUCTION DATA

Date _____

Static water level 126

Pumping water level 147

Yield (g.p.m.) 195

Measuring point _____

Duration of pumping _____

Specific capacity _____

LABORATORY DATA TL5-308

Well No. # 15893 Sample range 0-160 No. of samples 31

No. of dupls. and cond. None Washed range _____

Samples prepared by Kobes Date 1/6/64

Logged by NORTHUP Date 1/14/63

Correlations by _____ Date 1/14/63

Iowa County



MEMBER

Phone GR 3-2707

HOEG & AMES, Inc.

WELL CONTRACTORS

WELL SUPPLIES

☆☆☆

LINCOLN, IOWA

August 29, 1963.

IOWA GEOLOGICAL SURVEY

SEP 3 - 1963



Iowa Geological Survey,

Iowa City, Iowa.

Gentlemen;

The following is the record of the well we recently drilled for the Town of Williamsburg, Iowa. Also enclosed is the pumping record for the well.

S. R. Ames

LOG OF WELL

No. 4

Started the well - August 16, 1963.

Finished the well - August 27, 1963.

Total Depth - 160'

Static Water Level - 126'

Drawdown 20' pumping 195 gallons per minute.

Driller - William Hogan.

pipe - 147' of 10"

Remarks : Drilled 14" hole 0' to 25' and installed 14" temporary pipe. 10" pipe cemented in 14" hole 0' to 25', and temporary pipe pulled out. Johnson Everdure Metal screen installed, 10' long with .030 slot size.

FORMATION

top soil	0'	to	2'
yellow clay	2'	to	30'
blue-gray clay	30'	to	138'
sand and gravel	138'	to	154'
blue clay	154'	to	160'

Total Depth - 160 feet.

This well has been tested at 140 to 195 gallons per minute for 6 hours.

I hereby certify that the above information is true and correct.

Signed this 29th day of August, 1963.

By

S.R. Ames.

Pres.

nvh



MEMBER

Phone GR 3-2707

HOEG & AMES, Inc.

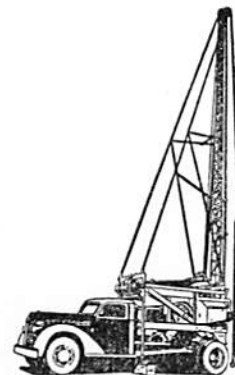
WELL CONTRACTORS

WELL SUPPLIES

☆☆☆

LINCOLN, IOWA

August 29, 1963.



PUMPING RECORD OF TOWN OF WILLIAMSBURG WELL

TIME	W.L.	D.D.	G.P.M.	REMARKS
8:55	126.0			Started Pump
9:00	135.4	9.4	100	Water dirty - fine sand
9:05	136.1	10.1		
9:10	136.0	10.0	100	Water clear - fine sand
9:15	135.8	9.8		Water clear
9:20	135.8	9.8	100	
9:25	136.3	10.7		
9:30	135.8	9.8	100	
9:45	135.2	9.2		
10:00	135.0	9.0	100	Water very clear
10:15	135.0	9.0		
10:30	136.0	10.0		Increased rate
10:45	140.9	14.9	140	
11:00	140.9	14.9		
11:30	140.0	14.0	140	
12:15	141.7	15.7		
1:00	141.5	15.5	140	
1:30	140.3	14.3		Increased rate
2:15	147.4	21.4	195	
3:00	147.1	21.1	195	Water clear
3:30	146.0	20.0	195	
4:00	146.7	20.7		
4:30	146.2	20.2	195	
5:00	146.3	20.3	195	Shut pump off
5:01	129.0			

77

42 1/2

WHEN RECORD IS COMPLETED PUT IN ENVELOPE AND MAIL TO

THE DIRECTOR

IOWA GEOLOGICAL SURVEY

IOWA CITY, IOWA

DRILLER'S NOTEBOOK

WELL RECORD

DRILLER

Hoeghline Inc

ADDRESS

*Litchfield
Iowa*

15893

OWNER

Town of

ADDRESS

*Williamsburg
Iowa*

RETURN TO

IOWA GEOLOGICAL SURVEY
IOWA CITY, IOWA

DRILLER'S NOTE

It is important that a driller's notebook, filled out as completely as possible, be sent to the Iowa Geological Survey at the completion of each hole. A number of drillers have found it convenient to string samples from a single well on a heavy wire and attach the log book to them. A hole has been punched in the log book for this purpose.

Sample sacks and log books will be furnished by the Geological Survey. A copy of the log book will be made and returned if desired by the driller.

SUGGESTIONS TO DRILLERS

1. Samples should be taken from each bed passed through, and never more than 5 feet apart, even in the same bed.

2. Samples should not be washed, except to remove excess drilling mud, as washed samples may give a wrong idea of the character of the bed.

3. Fill out the label on each sample bag with the name of the well and the depth interval which the sample represents.

4. Make frequent use of the "Description" column to explain the material being drilled.

5. Note depth and thickness of all water-bearing layers.

6. Note the quality of the water from each layer: as hard, soft, salty, alkaline, or sulphur bearing.

7. Note height to which water from each layer rises in well, and give flow or capacity in gallons per minute.

8. Fossils, such as oyster, clam, and other shells, are important and should be placed in bags with the material with which they are found and carefully labeled as to the depth from which they were obtained.

9. If you do not understand what is wanted, or desire information on any point, write to the Iowa Geological Survey, Iowa City, Iowa.

10. Samples may be boxed and sent to IOWA GEOLOGICAL SURVEY, IOWA CITY, IOWA, EXPRESS COLLECT.

The Iowa Geological Survey desires to assist and cooperate with owners and drillers in every way possible, and will be glad to answer questions and assist in the solution of problems at any time.

PB-D-6467

16'0"
25'
35'

WELL RECORD

Well is located.....miles S and.....miles S from
N E
W W

W. H. Ansberg in Iowa
(Nearest Town) (County)

in the 1/4 1/4 Sec. T. R.

Owner Town Well No. 4

Postoffice address

Contractor Harg & Ames Inc

Address Lincoln IA.

Driller Hagan

Well begun Aug 16, 1963

completed Aug 23, 1963

Rig used—Cable, Rotary, Jet, or

Depth of well 160' (Feet)

Size of hole (note total amount of each size)

25' 2" 14" - 13.5' 2" 10"

Main water supply at 140' 154' (Feet below surface)

Final water head 126' (Feet above or below surface)

Is well pumped? Yes

Yield 195 (Gallons per minute)

Water level when pumping 147'

Position of well City park (Upland, valley, side hill, etc.)

RECORD OF PERMANENT CASING

[illegible]

*As cast, wrought iron, steel, concrete, etc.

Is screen used? yes Diameter 10"
(Inches)

Length 10" Depth to bottom 54 fathoms
(Feet)

Depth to top 142' Slot size 30⁶ and pipe

Are packers or seals used? yes

Kind Lead seal on top

Where used Top of 4' riser pipe

Kind of pump turbin Dia. 8" bolts
(Inches)

Capacity of pump.....
(g.p.m.)

Power used..... Power Unit
(Kind and amount)

Depth to bottom of pump line 156 feet,

including _____ feet tailpiece.

Remarks on construction of well.....

REMARKS ON CONSTRUCTION OF XXXXXXXXXXXXXXXXXXXXXXXXXXXX

NOTE: Water levels should be recorded at time of change AND at regular intervals; for example each morning before drilling starts or at the end of each 100 feet of drilling.

[illegible]

DESCRIPTION OF BEDS

KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.

top soil
Yellow clay
Blue - Gray clay
Sand & Gravel
Clay

145' 11" of 10" pipe

Screen 10" x 10' - 30 slot
4' of 8" pipe on top with
lead seal a packer
6' of 8" pipe on bottom with
plate on bottom.
Bottom set 160'