IOWA GEOLOGICAL SURVEY

In Cooperation with U. S. Geological Survey

W 8315

RECORD OF WELL

Location: IN TOWN 1500' E. OF OLD SAND WELL

Bob Hansen located NW NE NW SW NE SW sec. 33 T. 96 N., R. 6 W. Twp.

Town: POSTVILLE (N E) (S W) :County ALLAMAKEE E.

Well name and number

Owner CITY OF POSTVILLE #2 (1957) Address

Tenant Address

Contractor LAYNE-WESTERN CO. Address AMES

Drillers

Drilling dates COMPLETED MAY 1957

Well data:

Altitudes: Drilling curb feet; Land surface Topo Elev. C.I. 20' 1185 feet

Determined by

Topographic position

Total depth: Reported 1071 feet, Measured feet

Drilling method CABLE TOOLS

Hole and casing data WELL IS CASED THROUGH ST. PETER

Original depth to water 370 ft. above below Date

Source of data

Sources of water: Principal PRAIRIE du CHIEN, JORDAN, ST. LAWRENCE

Others

Production Data

Date				
Static water level	370			
Measuring point				
Pumping water level	450			
Yield (g. p. m.)	220			
Duration of pumping				
Specific capacity				

Pump Data

Type pump _____ Column diameter and length _____

Cylinder or bowls diameter and length _____

Suction pipe _____ Airline _____

Power _____ Production _____ g. p. m. for _____ hours per day

Use of water _____

Dissolved constituents and properties (in parts per million except as indicated)

Date sampled				
Sampled by				
Silica (SiO_2)				
Iron (Fe)				
Manganese (Mn)				
Calcium (Ca)				
Magnesium (Mg)				
Potassium (K)				
Sodium (Na)				
Carbonate (CO_3)				
Bicarbonate (HCO_3)				
Sulfate (SO_4)				
Chloride (Cl)				
Fluoride (F)				
Nitrate (NO_3)				
Dissolved solids				
Hardness (as $CaCO_3$)				
Total				
Grains per gallon				
Noncarbonate				
Alkalinity (as $CaCO_3$)				
pH				
Specific conductance (micromhos at 25°C)				
Temperature (°F)				
Analysis No.				

Laboratory Data

Well No. W 8315 Sample range 0 - 1070 No. of samples 214

EMI-4, EMI-5, EMI-6

No. of dupls. and cond. 214 Good Washed range 55 - 1070

Samples prepared by V. Daw Date 5/29/57

Logged by Northup Date 6/13/57

Correlations by _____ Date 6/13/57

City Line 3 Chains.

NAME	LOCATION	SEC.	T.	R.	ELEV.	T.D.	WATER LEVEL	CASING DATA DIA.	CASING DATA LGTH.	REMARKS
1										Another Sand Well
2										Treatment
3										Deepen to Mt. Simon

Portable = #2

Gen

84) 2.799 (22 ~

Location = 1500' E of old Jordan Well

C. P: 595 = Return Brant =
with = 12" I.D.

228 gpm @ P.L. 454'

S.L. = 370

No Sand Pumping = Cleared up very rapidly =
Jordan was 2 oft - Drilled Easy

Old Well = 145 gpm = @ P.L. lower Than 450
Present T.D. = 993
Note - They had 2 old wells -
with casing Brk = from shallow
to Deep = State Now = 102'

T.D. Now = 1071'
They now have 19000 ± in hole

19.7
46

1062
708

8192

G-W Postville Gen Data
Allamakee Co.

INVENTORY OF VISITORS phone Call

Name Phil Northway Date 9/26/63

Affiliation Thorpe Well Co.

Address Cedar Rapids.

Information Requested Casing record and pumping test data for the Postville City well drilled in 1957. He is going to change pumps and motor on the well. The water level has dropped nearly 50 feet. The pump is presently at at 540' and he didn't want to get below the casing point.

Information Obtained at Survey Office The well is cased with 600' of casing (size unknown) which is presumed grouted from 600' to the surface. The original well was 570'. The pumping test indicated a specific capacity of 2.7 g.p.m.d.d.

Mary Parker
Survey Contact

May 6, 1957

Fil -

Postville Well

Static 370 feet, Air line 460 feet, suction , 3" orifice, 6" pipe

Time	Orifice reading	GPM	Pumping level	Drawdown	Remarks
10:00	49	231			
10:10	48	229			
10:30	47½	228	454+	84	2.7 gpfdd
11:00	47	227	456	86	
11:30	46½	225	456	86	
12:00 noon	45 3/4	224			
12:13 off					
12:30 started up and shut down - engine trouble					
1:30	49	231	454	84	
2:00	48	229	454	84	
2:30	48	229	454	84	
3:00	48	229	454	84	
3:30	47½	228	454	84	
4:00	47½	228	454	84	pH 7.2 46gpg?
4:30	47½	228	454	84	
5:00	47½	228	454	84	
5:30	47½	228	454	84	
5:31			400		Recovery < 1½ min.
5:31:30			360		
5:32:00			360		

45-4
-370
84

Copied from records of Green Engineering Company

File-City of Postville
(Allamakee Co)W-8315

March 11, 1964

Mr. Gil Northway
Thorpe Well Company
Box 1564
Cedar Rapids, Iowa

Dear Mr. Northway:

In reply to your letter of March 10 we are pleased to send you the following information on the Postville city well (1957).

The well is cased with 600 feet of casing, size unknown, which is pressure grouted from 600 feet to the surface. A setting of 600 feet places the bottom of the casing 20 feet into the Prairie du Chien. To our knowledge the remainder of the hole is uncased. The total depth is 1071 feet. The St. Lawrence was penetrated 100 feet.

A copy of a pumping test conducted by Green Engineering Company is enclosed. The well was originally pumped at a rate of 220 gpm at a pumping level of 450 feet.

I hope this information will be helpful to you.

Very truly yours,

H. G. Hershey

HGH/mcp/m
Enclosure

8315

WELL SCHEDULE

US GEOLOGICAL SURVEY

IOWA DISTRICT WRD

WELL NO 8315 CO ALLAMAKEE

OWNER POSTVILLE CITY WELL #2 ADDRESS POSTVILLE

DRILLER LAYNE-WESTERN CO. DATE DRLD 05-57

MAP

SOURCE OF DATA FILE

DESCRIPTION M.P. LSD FEET (ABOVE) (BELOW) LSD

MASTER CARD - A

9-26-69
RP 11-22-70

STATE	COUNTY	LATITUDE DEG	LATITUDE MIN	LATITUDE SEC	N or S	LONGITUDE DEG.	LONGITUDE MIN.	LONGITUDE SEC.	NO SEQ.
1 2	3 4	5 6	7 8	9 10	11	12 13 14	15 16	17 18	19
19	03	43	05	12	N	091	33	36	1

CONTINUED FROM ABOVE

ACCURACY	T	R	E/W	SEC	QUARTERS	W-NUMBER	OPTIONAL	OWNER OR NAME	OWNERSHIP	WATER USE	WELL USE	WELL DATA	FREQ. W/L	FIELD CHAR	HYD LAB	QW-DATA	QW-FREQ	PUMPAGE	APERTURE	LOG DATA	CARD DESIG
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
	096	06	W	33	CA	08315	/ / 57 CITY 2	POSTVILLE	M	P	W	1	Ø			CH				G	A

WELL-DESCRIPTION CARD - B

DUPLICATE CARD A CC 1-19	DEPTH OF WELL	ACCURACY	DEPTH CASED OR FIRST PERF.	DIAM. INCHES	WELL FINISH METH DRILLED	YEAR DRILLED	PUMP SETTING	METH. LIFT	DEEP SHALLOW	POWER	ALTITUDE OF LSD (FEET)	ACCURACY	WATER LEVEL (FEET)	ACCURACY	DATE MONTH	DATE YEAR	YIELD OF WELL (GPM)	METH. DET	DRAW-DOWN (FEET)	ACCURACY	PUMPING PERIOD (HOURS)	QUALITY OF WATER IRON	SULF	CHLOR	HARD	SP. COND	TEMP	DATE SAMPLED	CARD DESIG.
	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
	107	1	600		X	C957					11907		3700	D	557		2203		803										B

HYDROGEOLOGIC CARD - C

DUPLICATE CARD A CC 1-19	PHYS-IOG-RAPHY PROV.	PHYS-IOG-RAPHY SEC.	DRAINAGE BASIN	SUBBASIN	TOPO SETTING	MAJOR AQUIFER SYSTEM	SERIES USGS	SERIES IGS	UNIT	LITH-OLOGY	ORIG.	THICK-NESS	LENGTH WELL OPEN TO	DEPTH TO TOP OF	MINOR AQUIFER SYSTEM	SERIES USGS	SERIES IGS	UNIT	LITH-OLOGY	ORIG.	THICK-NESS	LENGTH WELL OPEN TO	DEPTH TO TOP OF	DEPTH TO CONSOLI-DATED ROCK	SOURCE	DEPTH TO BASEMENT	SOURCE	SURF MAT. LITH-OLOGY	SURF MAT. INFIL	COEF TRAN SIG FIG	COEF TRAN XIO	COEF STOR SIG FIG	COEF STOR XIO-	CARD DESIG.
	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
	12	C	27B			C	3	S	T	V	6		21	685	Ø	1	L	P	D	6		255	579	55	D			Q	2						C

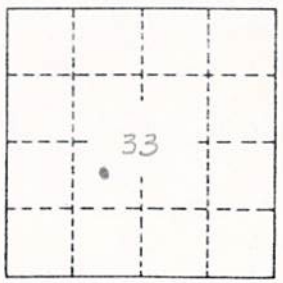
CASING AND SCREEN (SIZE, TYPE, INTERVALS):

CODED BY MACGOWAN DATE 7-6-72

PUNCHED BY HEXum DATE 7-10-72

VERIFIED BY DATE

SKETCH ON REVERSE: YES NO



WELL NO 8315

8315

W-08315
090 06W 33CA
POSTVILLE CITY WELL #2

UNITED STATES DEPARTMENT OF THE INTERIOR
Geological Survey
Water Resources Division

Water Quality
(ppm)

Card Q

State: IOWA [19] (1-2) County: ALLAMAKEE [03] (3-4) Town: POSTVILLE

Well No. Latitude [43051 2N] (5-11) Longitude [091 33 36] (12-18) Seq. No. [1] (19) Date M D Y [12 14 57] (20-25)

Sampling Depth [1070] (26-29) Type [1] (30) Kx10^6 [513] (31-35) pH [7.6] (36-38) Temp. °F (39-41)

SiO_2 [8.6] (42-44) Ca [65] (45-49) Mg [28] (50-53) Na [24] (54-58) K [2.0] (59-61)

HCO_3 [303] (62-65) CO_3 [0] (66-67) SO_4 [34] (68-72) Cl [40] (73-78) Source No. [3] (79) [Q] (80)

Card R

Duplicate Columns 1-25 from Card Q

F [0.2] (26-28) NO_3 [0.4] (29-32) PO_4 (33-35) B (36-38) Al (39-41) Fe [0.10] (42-45)

Mn [0.05] (46-49) Cu (50-52) Pb (53-54) Zn (55-57)

Determined Solids [228] (58-63) Calc. (64-69) Ca,Mg Hardness [276] (70-73) Non-Carb. [31] (74-77)

Color (78-79) No. [R] (80)

Card S

Duplicate Columns 1-25 from Card Q

Br (26-28) I (29-31) Alk. as $CaCO_3$ [245] (32-35) Free CO_2 (36-38) SAR (39-41)

RSC (42-44) ABS (45-47) (48-50)

Alpha (pc/l) (55-57) Beta (pc/l) (58-60) Ra (pc/l) (61-63) U (ug/l) (64-66)

No. [S] (80)

Recorded by: MACGOWAN

Punched by: MACGOWAN Date: 7-10-72

Published:

W-08315
096 06W 33CA
POSTVILLE CITY WELL #2

UNITED STATES DEPARTMENT OF THE INTERIOR
Geological Survey
Water Resources Division

Water Quality
(ppm)

Card Q

State: IOWA (19) County: ALLAMAKEE (03) Town: POSTVILLE

Well No. Latitude 430512N (5–11) Longitude 0913336 (12–18) Seq. No. 1 (19) Date M D Y 03 08 62 (20–25)

Sampling Depth 1071 (26–29) Type 1 (30) Kx10⁶ 511 (31–35) pH 76 (36–38) Temp. °F (39–41)

SiO_2 84 (42–44) Ca 67 (45–49) Mg 26 (50–53) Na 30 (54–58) K 2.6 (59–61)

HCO_3 307 (62–65) CO_3 0 (66–67) SO_4 31 (68–72) Cl 30 (73–78) Source No. 3 (79) Q (80)

Card R

Duplicate Columns 1-25 from Card Q

F 0.2 (26–28) NO_3 0.4 (29–32) PO_4 (33–35) B (36–38) Al (39–41) Fe 030 (42–45)

Mn 0.05 (46–49) Cu (50–52) Pb (53–54) Zn (55–57)

Solids Determined 291 (58–63) Calc. (64–69) Hardness Ca,Mg 277 (70–73) Non-Carb. 25 (74–77)

Color (78–79) No. R (80)

Card S

Duplicate Columns 1-25 from Card Q

Br (26–28) I (29–31) Alk. as $CaCO_3$ 252 (32–35) Free CO_2 (36–38) SAR (39–41)

RSC (42–44) ABS (45–47) (48–50)

Alpha (pc/l) (55–57) Beta (pc/l) (58–60) Ra (pc/l) (61–63) U (ug/l) (64–66)

No. S (80)

Recorded by: MACGOWAN

Punched by: MACGOWAN Date: 7-10-72

Published:

8315

W-08315
096 06W 33CA
POSTVILLE CITY WELL #2

UNITED STATES DEPARTMENT OF THE INTERIOR
Geological Survey
Water Resources Division

Water Quality
(ppm)

Card Q

State: IOWA [19] (1-2) County: ALLAMAKEE [03] (3-4) Town: POSTVILLE

Well No. Latitude [43051 2 N] (5-11) Longitude [091 33 36] (12-18) Seq. No. [1] (19) Date M D Y (20-25)

Sampling Depth [1071] (26-29) Type [1] (30) Kx10^{8} [653] (31-35) pH [7.8] (36-38) Temp. °F (39-41)

SiO_2 [11.] (42-44) Ca [92.] (45-49) Mg [32.] (50-53) Na [55.] (54-58) K [2.6] (59-61)

HCO_3 [393] (62-65) CO_3 [0] (66-67) SO_4 [43.] (68-72) Cl [90.] (73-78) Source No. [3] (79) [Q] (80)

Card R

Duplicate Columns 1-25 from Card Q

F [0.2] (26-28) NO_3 [0.4] (29-32) PO_4 (33-35) B (36-38) Al (39-41) Fe [0.06] (42-45)

Mn [0.05] (46-49) Cu (50-52) Pb (53-54) Zn (55-57)

Determined Solids [391] (58-63) Calc. (64-69) Ca,Mg Hardness [361] (70-73) Non-Carb. [39] (74-77)

Color (78-79) No. [R] (80)

Card S

Duplicate Columns 1-25 from Card Q

Br (26-28) I (29-31) Alk. as $CaCO_3$ [322] (32-35) Free CO_2 (36-38) SAR (39-41)

RSC (42-44) ABS (45-47) (48-50)

Alpha (pc/l) (55-57) Beta (pc/l) (58-60) Ra (pc/l) (61-63) U (ug/l) (64-66)

No. [S] (80)

Recorded by: MACGOWAN

Punched by: MACGOWAN Date: 7-10-72

Published:

W-08315
09606W33CA
POSTVILLE CITY WELL #2

UNITED STATES DEPARTMENT OF THE INTERIOR
Geological Survey
Water Resources Division

Water Quality
(ppm)

Card Q

State: IOWA [19] (1-2) County: ALLAMAKEE [03] (3-4) Town: POSTVILLE

Well No. Latitude [43051 2N] (5-11) Longitude [091 33 36] (12-18) Seq. No. [1] (19) Date M D Y [09 28 71] (20-25)

Sampling Depth [1071] (26-29) Type [1] (30) Kx10^6 [560] (31-35) pH [7.1] (36-38) Temp. °F [ ] (39-41)

SiO_2 [8.0] (42-44) Ca [75.] (45-49) Mg [26.] (50-53) Na [38.] (54-58) K [2.6] (59-61)

HCO_3 [329] (62-65) CO_3 [0] (66-67) SO_4 [41.] (68-72) Cl [40.] (73-78) Source No. [3] (79) [Q] (80)

Card R

Duplicate Columns 1-25 from Card Q

F [0.2] (26-28) NO_3 [0.1] (29-32) PO_4 [ ] (33-35) B [ ] (36-38) Al [ ] (39-41) Fe [0.02] (42-45)

Mn [ ] (46-49) Cu [0.2] (50-52) Pb [.01] (53-54) Zn [0.01] (55-57)

Solids Determined [340] (58-63) Calc. [ ] (64-69) Hardness Ca,Mg [296] (70-73) Non-Carb. [26] (74-77)

Color [ ] (78-79) No. [R] (80)

Card S

Duplicate Columns 1-25 from Card Q

Br [ ] (26-28) I [ ] (29-31) Alk. as $CaCO_3$ [270] (32-35) Free CO_2 [ ] (36-38) SAR [ ] (39-41)

RSC [ ] (42-44) ABS [ ] (45-47) [ ] (48-50) [ ] (51-54)

Alpha (pc/l) [ ] (55-57) Beta (pc/l) [ ] (58-60) Ra (pc/l) [ ] (61-63) U (ug/l) [ ] (64-66)

No. [S] (80)

Recorded by: MACGOWAN

Punched by: MACGOWAN Date: 7-10-72

Published:

W-08315
096 06W 33CA
POSTVILLE CITY WELL #2

8315

UNITED STATES DEPARTMENT OF THE INTERIOR
Geological Survey
Water Resources Division

Water Quality
(ppm)

Card Q

State: IOWA [19] (1-2) County: ALLAMAKEE [03] (3-4) Town: POSTVILLE

Well No. Latitude [43051 2 N] (5-11) Longitude [091 33 36] (12-18) Seq. No. [1] (19) Date M D Y [09 28 71] (20-25)

Sampling Depth [1071] (26-29) Type [1] (30) Kx10^{e} [560] (31-35) pH [7.2] (36-38) Temp. °F [ ] (39-41)

SiO_2 [8.6] (42-44) Ca [73.] (45-49) Mg [27.] (50-53) Na [39.] (54-58) K [2.6] (59-61)

HCO_3 [327] (62-65) CO_3 [0] (66-67) SO_4 [41.] (68-72) Cl [40.] (73-78) Source No. [3] (79) [Q] (80)

Card R

Duplicate Columns 1-25 from Card Q

F [1.0] (26-28) NO_3 [0.1] (29-32) PO_4 [ ] (33-35) B [ ] (36-38) Al [ ] (39-41) Fe [0.02] (42-45)

Mn [0.05] (46-49) Cu [0.0] (50-52) Pb [01] (53-54) Zn [0.03] (55-57)

Solids Determined [321] (58-63) Calc. [ ] (64-69) Hardness Ca,Mg [296] (70-73) Non-Carb. [28] (74-77)

Color [ ] (78-79) No. [R] (80)

Card S

Duplicate Columns 1-25 from Card Q

Br [ ] (26-28) I [ ] (29-31) Alk. as $CaCO_3$ [268] (32-35) Free CO_2 [ ] (36-38) SAR [ ] (39-41)

RSC [ ] (42-44) ABS [ ] (45-47) [ ] (48-50) [ ] (51-54)

Alpha (pc/l) [ ] (55-57) Beta (pc/l) [ ] (58-60) Ra (pc/l) [ ] (61-63) U (ug/l) [ ] (64-66)

No. [S] (80)

Recorded by: MACGOWAN Punched by: MACGOWAN Date: 7-16-72

Published: