

U. S. DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Water Resources Division Well Schedule Form

MASTER CARD

Record by D. AARONSON Source of data FILE Date 7/2/65 Map 1:63,360

State IOWA County (or town) CALHOUN Section 13

Latitude: 42° 34' 6" N Longitude: 091° 38' 07" W Sequential number: 7

Locality: 2 80 33 36 NESE. NW. NE. 5

Local well number: 008033W36A111 Other number: W-0302

Local use: 00302 10 CITY 2 Owner or name: ROCKWELL CITY Address: ROCKWELL CITY, IA

Ownership: County, Fed Gov't, City, Corp or Co, Private, State Agency, Water Dist. M

Use of water: (A) Air cond, (C) Comm, Dewatering, (F) Fire, (H) Dom, (I) Ind, (P) Stock, (R) Irrig, (S) Other, (U) Unused P

Use of well: (A) Anode, (D) Drain, (G) Geom, (O) Oil-gas, (P) Perch, (R) Recharge, (S) Spring, (T) Test, (U) Unused, (W) Withdraw, (X) Waste, (Z) Destroyed W

DATA AVAILABLE: Well data 5 Freq. W/L meas.: NONE N Field aquifer char. 7

Bed, lab. data: 7

Qual. water data: 7

Freq. sampling: 7 Pumpage inventory: yes 7 period: 7

Aperture cards: yes 7

Log data: GEOLOGIC LOG - Driller's Log 6: D

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD Depth well: 1475 ft 1475 Meas. 7

Depth cased: 7 Casing type: 7 Diam. 7

Finish: (C) concrete, (F) ferroc, (G) gravel, (H) horis, (I) open, (J) screen, (K) sh. pt., (L) shored, (M) other 7

Method: (A) air bored, (B) cable, (C) dug, (D) jetted, (E) air, (F) reverse, (G) trenching, (H) driven, (I) drive, (J) other 7

Date drilled: 1910 9/10 Pump intake setting: 7

Driller: J. P. MILLER

Life: (A) air, (B) bucket, (C) cent, (D) jet, (E) multiple, (F) multiple, (G) nose, (H) piston, (I) rot, (J) submerg, (K) turb, (L) other 7

Power: (A) diesel, (B) elec, (C) gas, (D) gasoline, (E) hand, (F) gas, (G) wind, (H) H.P. 7

Trans. or meter no. 7

Descript. MP LSD Above 7 ft below 7 led. Alt. MP 1232

Alt. LSD: 1232 1232 Accuracy: 7

Water level: 7 above 7 ft below 7 MP; 7 ft below 7 led. Accuracy: 7

Date 7 Method 7

Drawdown: 7 Accuracy: 7 Pumping period 7

QUALITY OF WATER DATA: Iron 7 Sulfate 7 Chloride 7 Hard. 7

Sp. Conduct. 7 Temp. 7 Date sampled 7

Taste, color, etc. 7

088-33W36 a b d a

Well Number 42 23 46 099 38 07

HYDROGEOLOGIC CARD

NAME AS ON MASTER CARD _____ Physiographic Province: CENTRAL LOWLAND 1:2 Section: WESTERN

LAKES 0 Drainage Basin: KALICOON 2:5:1A Subbasin: _____

Top of well site: (D) Local depression, flat surface, hilltop, hillside, terrace, valley flat, _____

MAJOR AQUIFER: ORDOVICIAN MIDDLE 0:2 ST. PETER SS. M: P

Lithology: SHALE SANDST. V Origin: MAR. ME 6 Aquifer Thickness: _____

Length of well open to: 5 ft Depth to top of: 1470 ft A: 4:7

MINOR AQUIFER: _____

Lithology: _____ Origin: _____ Aquifer Thickness: _____

Length of well open to: _____ ft Depth to top of: _____ ft

Intervals screened: _____

Depth to consolidated rock: 166 ft 1:6:0 Source of data: DRILLER'S LOG 0

Depth to basement: _____ ft Source of data: _____

Surficial material: _____ Infiltration Characteristics: POOR 4

Coefficient Trans: _____ gpd/ft² Coefficient Storage: _____

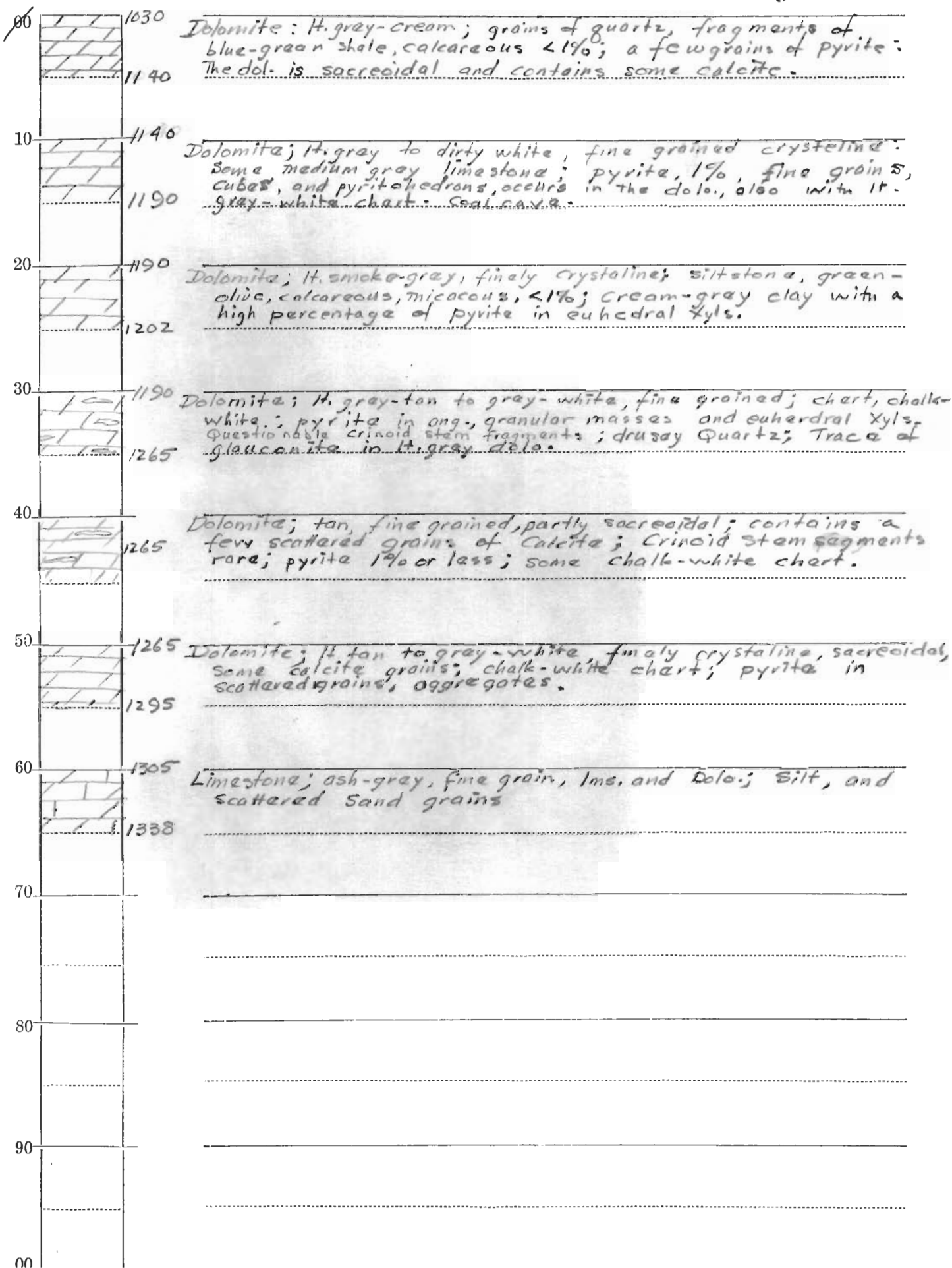
Coefficients: _____ gpd/ft²; Spec cap: _____ gpm/ft; Number of geologic cards: _____

NO MISSING INFORMATION

6.5 NOV 21 p 1019



Location _____ Date Drilled _____ Analyst Frye



Lime Stone

600'

278'

875

8" Pipe

Shale +
Lime Stone

635'

35'

Shale

660'

30'

1217'

DEEP

Shale & Co

155

Well No. 2

Completed
1910

Scale 1" = 40'

ELL, ROCKWELL CITY, IA.

Lime stone

89.3'

73'

154.3'

9.80'

87'

Sand stone

Dolo?

117.5'

195'

154.3'

Shale &
Lime stone

6" Pipe

Sandstone & shale

1298' Limestone & shale

Sandstone & shale

Gold

Limestone & shale

shale

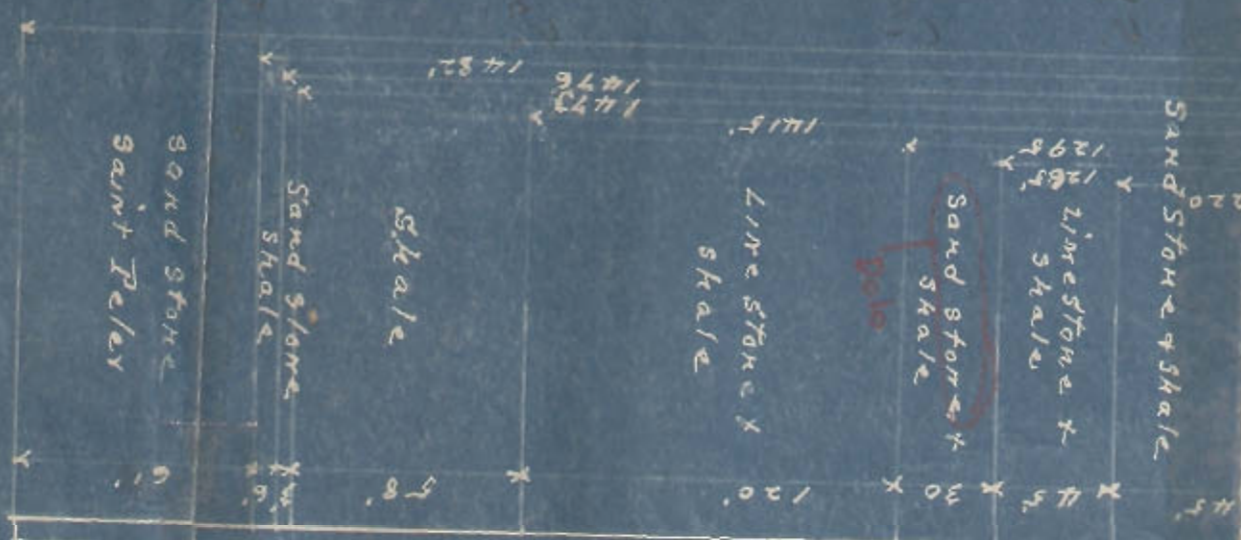
shale

Sandstone & shale

Sandstone
Saint Peter

Diatomite
Colorado

Sea Level



IOWA PRESS
CLIPPING BUREAU

Des Moines, Iowa

Advocate

Rockwell City, Iowa

Calhoun Co
Gen. Data

JUN 4 1942

Pratt Retiring

After 40 Years of Service

After 40 years of faithful service to the town of Rockwell City, J. R. Pratt, city water superintendent, has turned in his resignation to the city council.

Pratt started to work for the city 2 years after the turn of the century as street commissioner and helper at the city well. He has seen the water system start out with less than a mile of mains and grow to the size where over 9 miles of mains are needed to carry the load for the town.

The first city well was an open affair, 50 feet deep and 12 feet across and it was in 1904 that the first deep well was drilled, according to Mr. Pratt. This well was 950 deep and was used in connection with the old open well.

It was seven years later, in 1911, that the north well was drilled by the McArthy Well Co. This new well was 1,545 feet deep. Then in 1926 the first deep well was re-drilled to the depth of 1,670 feet.

In 1931 the north well was re-cased and deepened from 1,545 to 1,670 feet and in 1934 the south well was deepened to 1,677 feet.

Pratt recalled that the first

deep well were run by 30 horsepower gasoline engines and rope gulleys. Later the city built the reservoir, the new standpipe and within the last few years has added the filter.

Pratt has watched the city water system grow from the old open well to one of the best in the state for the size of the town.

At the present time water is pumped by two turbine pumps into the reservoir and from there by two other types of turbine pumps into the standpipe.

As regular as a clock, Pratt would go and return from work. His neighbors could even set the clock by his habits. Although his work for the city is finished it will probably take him some time to forget all he has done in the past 40 years.

Emmett Williams will succeed Pratt as water superintendent next Monday. Williams has been the streets commissioner. Grant Madden will take over the duties of Williams and Kenneth Ellis has been hired to assist Madden and also help with the work at the well.

SEP 7 1949

IOWA STATE
DEPARTMENT OF HEALTH

5

Fort Dodge, Iowa

X. P. Boyles
Public Health Engineer

September 6, 1949

P. J. Houser, Dir.,
Division of Public Health Engineering
State Department of Health
Des Moines, Iowa

Dear Mr. Houser:

On August 24, the letting was held at Rockwell City for the construction of a new deep well. As a result of the letting, the Thorpe Well Company was awarded the contract for the well at an anticipated depth of 1965 ft. The Layne Western Company secured the contract for the pumping equipment. Construction work is to start on the well within 30 days after the contract award of August 24.

The exact site of the new well location has not as yet been selected, however it will be drilled on the ground now owned by the city and within 110 ft. of the present south well. The exact location is limited to the area greater than 75 ft. distance from the curb lines of the street south and east and from the angle of convenience at a point which will not interfere with existing water lines.

A report on this survey will be submitted at the earliest opportunity.

Very truly yours,

X. P. Boyles
Public Health Engineer

XPR:DES
cc: H. G. Hershey

C
O
P
Y