

IOWA GEOLOGICAL SURVEY

In Cooperation with U. S. Geological Survey

9380

Field loc. by L. FISCHER

RECORD OF WELL

Location:

20' E. OF WATER TOWER

(NE)

Town:

SCHALLER

(SW): County

SAC

SW SE SW NE

sec. 26

T. 89

N., R. 38

W. EDEN

Twp.

Well name and number

Owner

TOWN OF SCHALLER #3

Address

Tenant

Address

Contractor

M. F. MERKLEY

Address

SCHALLE

Drillers

Drilling dates

MAY 1 - JULY 1, 1957

Well data:

Altitudes: Drilling curb

feet;

Land surface

feet

Topo Elev = 1438'

Determined by

Topographic position

UPLAND.

Total depth: Reported

462

feet, Measured

feet

Drilling method

ROTARY

Hole and casing data

360' OF 12" CASING

00 OF OPEN HOLE 360' - 460'

Original depth to water

91

above

ft. below

Date

Source of data

Sources of water: Principal

360' - 458'

Others

Production Data

Date _____
 Static water level 291 _____
 Measuring point _____
 Pumping water level 306 _____
 Yield (g. p. m.) 170 _____
 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 (SiO₂) _____
 Iron (Fe) _____
 Manganese (Mn) _____
 Calcium (Ca) _____
 Magnesium (Mg) _____
 Potassium (K) _____
 Sodium (Na) _____
 Carbonate (CO₃) _____
 Bicarbonate (HCO₃) _____
 Sulfate (SO₄) _____
 Chloride (Cl) _____
 Fluoride (F) _____
 Nitrate (NO₃) _____
 Dissolved solids _____
 Hardness (as CaCO₃) _____
 Total _____
 Grains per gallon _____
 Noncarbonate _____
 Alkalinity (as CaCO₃) _____
 pH _____
 Specific conductance _____
 (micromhos at 25°C) _____
 Temperature (°F) _____
 Analysis No. _____

Laboratory Data

Well No. W 9880 Sample range 0-460 No. of samples 91
 No. of dupls. and cond. 80 - Good Washed range 355 - 460
 Samples prepared by R. Valentine Date 10/1/58
 Logged by NORTHUP Date 7/7/59
 Correlations by _____ Date 7/7/59

DRILLER'S NOTEBOOK

W 9380

WELL RECORD

DRILLER

Bob WINKLER

ADDRESS

SCHALLER

IOWA

OWNER

TOWN OF SCHALLER

ADDRESS

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-19825-SP

WELL RECORD

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

SCHALLER in SAC
(Nearest Town) (County)

in the $\frac{1}{4}$ $\frac{1}{4}$ Sec.....T. EDEN

Owner TOWN OF SCHALLER Well No. 3

Postoffice address SCHALLER IA

Contractor MF MEKLEY

Address SCHALLER IA

Driller BOB WINKLER

Well begun MAY 1, 1957;

completed JULY 1, 1957

Rig used—Cable, Rotary Jet, or.....

Depth of well 460' TO TOP OF PIPE

(Feet)

Size of hole (note total amount of each size) 18' HOLE
12" PIPE CEMENTED IN AT 360' 100' OF
OPEN HOLE 117' 360 TO 460

Main water supply at 360 TO 458

(Feet below surface)

Final water head 291' FROM TOP OF PIPE

(Feet above or below surface)

Is well pumped? YES

Yield 170

(Gallons per minute)

Water level when pumping 306'

Position of well 20' EAST OF TOWER

(Upland, valley, slide hill, etc.)

Sample No.	DEPTH		THICKNESS
	From	To	
	0	3	3
	3	45	42
	45	65	20
	65	80	15
	80	95	15
	95	155	60
	155	190	35
	190	192	2
	192	205	12
	205	335	130
	335	340	5
	340	355	15
	355	370	15
	370	385	15
	385	395	10
	395	400	5
	400	410	10

DESCRIPTION OF BEDS
KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.
TOP SOIL
YELLOW CLAY
GRAY CLAY
BLUE CLAY
YELLOW CLAY
BLUE CLAY
YELLOW CLAY
BOULDER
YELLOW CLAY
BLUE CLAY
GREEN CLAY
WHITE SANDY SHALE
WHITE SANDSTONE
YELLOW SANDSTONE
WHITE SANDSTONE
RUSTY SANDSTONE
YELLOW SANDSTONE

