

579 field located by S. Lenker

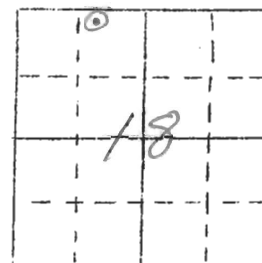
IOWA GEOLOGICAL SURVEY
In Cooperation with U. S. Geological Survey

W-1622

RECORD OF WELL

Location:

Town: SIBLEY (N E)
NW SW NE NW (S W); County Osceola
NW - NE - NW sec. 18 T. 99 N., R. 41 W. East Holden Twp.



Well name and number East City well on Golf course #2

Owner Town of Sibley Address _____

Tenant _____ Address _____

Contractor Thorpe Well Co Address Des Moines

Drillers Pat. West

Drilling dates July 1942

Well data:

Elevations: Drilling curb _____ feet; Land surface _____ feet

Topo Elev 1519'

Determined by _____

Topographic position Upland slope

Total depth: Reported 175 feet, Measured _____ feet

pulled back from 205'

Drilling method cable tool

Hole and casing data GRAVEL pack

(Give amount, size, kind, and depth of all casing; type and

Main hole: - 145' of 20" casing from 0-145'; 140' of 12" casing from 0-140'
position of seals and packers; cementing; how finished--perforated pipe, screen,
35' of 12" screen from 140 to 175'. Gravelled between 20" & 12" pipe
gravel pack, open hole, etc.)

N. side hole 100' of 12" casing 0-100'; 10' screen from 100' to 110'

10' screen from 145' to 175'; 6" casing from surface to 175'

S. side hole All gravelled
above

Original depth to water 52 ft. below curb Date _____

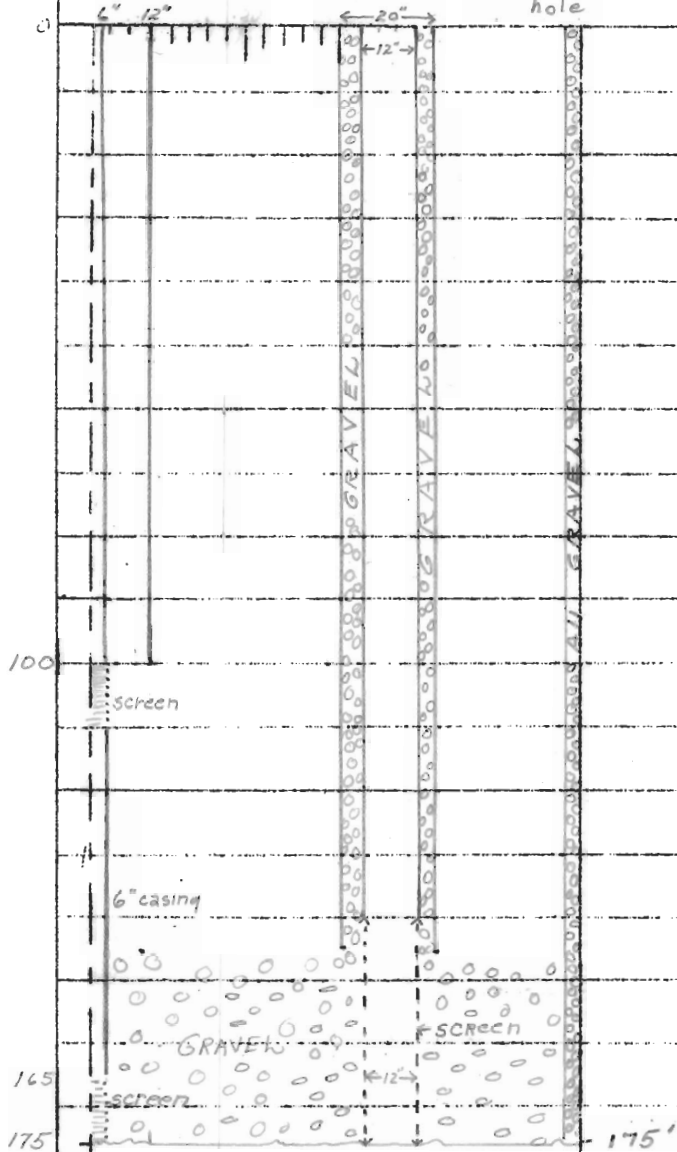
Original elevation of water level _____ ft.; Source of data _____

Sources of water: Principal Pleistocene; Others _____

CASING DIAGRAM

LOG

Vertical scale *1 space = 10'*
 N. Side hole
 Main hole
 S. side hole



Production data: Date _____
 Static depth to water 52 Measuring point _____
 Pumping level 70 at 100 g.p.m.

 Specific capacity 5.5 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 city supply

WATER ANALYSES (in parts per million)

Date sampled	<u>Oct. 1, 1942</u>			
Sampled by	<u>K.E. Anderson</u>			
Total solids	<u>1937</u>			
Insoluble matter	<u>12.0</u>			
Alkalinity (Meq)	<u>306.0</u>			
Alkalinity (Phn)	<u>0.0</u>			
pH	<u>7.2</u>			
Fe ₂ O ₃ + Mn ₂ O ₃ + Al ₂ O ₃	<u>20.0</u>			
Alkali as sodium	<u>76.3</u>			
Calcium	<u>303.7</u>			
Magnesium	<u>106.8</u>			
Iron (unfiltered)	<u>1.0</u>			
Manganese	<u>0.0</u>			
Nitrate	<u>2040.0</u>			
Fluoride	<u>0.5</u>			
Chloride	<u>4.0</u>			
Sulfate	<u>997.9</u>			
Bicarbonate	<u>373.3</u>			
Hardness (ppm)	<u>1200</u>			
Hardness (gpg)	<u>70.1</u>			
Remarks				

Laboratory data: Sample storage location _____
 Sample range 0-205 No. spls. 41 No. dupls. & cond. 41 f to p
 Spls. prepared by Haydon Washed range _____ by _____
 Driller's log and cond. Yes (see notation general data folder)
 Insoluble residues: Prepared by _____ Studied by _____ Strip log _____
 Microscopic study _____ strip log 5/9/52
 Gen. log _____ Correl. by NORTHUP

WATER LEVEL DATA

Measuring point _____

Date	Depth to water	Altitude	Remarks

REMARKS

Samples are taken from test well which was later used as a side hole for the main gravel pack well (north side hole)

IOWA GEOLOGICAL SURVEY
Water Well Data Sheet

Survey Number **W-1622**

Town Sibley County Osceola T. 99 N., R. 41 E.
Name City well (New East well on golf course) Location NW NE NW $\frac{1}{4}$, Sec. 18
Contractor Thorpe Driller Pat Wash Use City well
Construction Drilled (granite) Drilling Dates July, 1942 Drilling Depth
Topog. upland slope Curb Elev. Ref. Total Depth 205
Final Static Level 52 above Pumping Level 70 Draw down 18 gpm 100 Time pumped Date
Depth to bot. pump ft. with ft. suction pipe. drawdown 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 0-205 Number samples 41 Number Duplicates 41 Cond. fair to poor
Log 10 Cond. Boxed Neydon Range 0-205 Date 10-10-42

Remarks Samples are taken from test well which was later used as a side hole for the main gravel pack well.

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