

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

3349

RECORD OF WELL

Location:

Town: Dallas Center (NE)
(SW) County Dallas
SW SW SE sec. 31 T 80 N., R. 27 W. GRAPE Twp. ^{B. Sugar}

Well name and number Test Well No. 16 for Town Well No.

Owner Town of Dallas Center Address _____

Tenant _____ Address _____

Contractor McCutcheon Well Co. Address Des Moines

Drillers F. S. McCutcheon

Drilling dates June 15 - 26, 1948

Well data:

Elevations: Drilling curb 920 feet; Land surface 919 feet

Determined by Hand from X-eds (1023) - July 2 - 1948 - JBC.

Topographic position Valley Slope - Raccoon River

Total depth: Reported 72'-8" feet, Measured _____ feet

Drilling method Cable Tool.

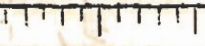
Hole and casing data 64'-2" of 6" pipe from +1 to 63'-2"
11' of 6" screen from 61'-8" to 72'-8" (lapped
1'-6" into pipe)

Original depth to water 37'-9" ^{above} ft. _{below} Curb Date July 1, 1948

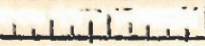
Original elevation of water level _____ ft.; Source of data _____

Sources of water: Principal Hand & Ground.; Others _____

Vertical scale



0-5 Top Soil
 5-20 Yellow silt
 20-45 Yellow sand - Muddy
 45-53 Gray silt
 53-71'-8" Sand & Gravel
 71'-8"-72'-8" Gray shale



Production data:

Date July 2, 1948

Static depth to water 37'-8"

Measuring point Top pipe 1' above ground.

Pumping level 51'-7"

at 60 g.p.m.

52'-8"

66

Specific capacity 5.4 g.p.m. per ft. drawdown; Temperature 52 °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 Town Supply.

WATER ANALYSES (in parts per million)

Date samples	<u>8/3/48</u>	<u>7/2/48</u>		
Sampled by	<u>J.B.C. & C.W.I.</u>	<u>J.A. Sampson</u>		
Total solids	<u>578.</u>	<u>582.</u>		
Insoluble matter	<u>21.0</u>	<u>2</u>		
Alkalinity (Meo)	<u>446</u>	<u>446</u>		
Alkalinity (Phn)	<u>0</u>	<u>0</u>		
pH	<u>7.3</u>	<u>7.7</u>		
Fe ₂ O ₃ - Mn ₂ O ₃ - Al ₂ O ₃	<u>3.3</u>	<u>5.</u>		
Alkali as sodium	<u>38.9</u>	<u>26.3</u>		
Calcium	<u>111</u>	<u>114.7</u>		
Magnesium	<u>38.9</u>	<u>38.8</u>		
Iron (unfiltered)	<u>2.5</u>	<u>1.8</u>		
Manganese	<u>.13</u>	<u>.12</u>		
Nitrate	<u>0</u>	<u>0</u>		
Fluoride	<u>.5</u>	<u>.4</u>		
Chloride	<u>5.</u>	<u>4.</u>		
Sulfate	<u>69.3</u>	<u>69.5</u>		
Bicarbonate	<u>544.1</u>	<u>544.1</u>		
Hardness (ppm)	<u>442.</u>	<u>450</u>		
Hardness (gpg)	<u>25.8</u>	<u>26.3</u>		

Remarks _____

Laboratory data:

Sample storage location C-28-3

Sample range 0-71 No. spls. 18 No. dupls. & cond. 15-G

Spls. prepared by JED Washed range None by _____

Driller's log and cond. _____

Insoluble residues: Prepared by _____ Studied by _____ Strip log _____

Microscopic study 0-71 strip log 8-24-48

Gen. log _____ Correl. by R.W.