

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

W-2661

RECORD OF WELL

Location:

Town: Manchester ( N E )  
( S W ): County Daleware  
sec. T N., R. W. Twp.



Well name and number City Well #3

Owner City of Manchester Address \_\_\_\_\_

Tenant \_\_\_\_\_ Address \_\_\_\_\_

Contractor Bert Schmitt Address Mason City

Drillers \_\_\_\_\_

Drilling dates May 25, 1937

Well data:

Elevations: Drilling curb 940 feet; Land surface \_\_\_\_\_ feet

Determined by \_\_\_\_\_

Topographic position \_\_\_\_\_

Total depth: Reported 217 feet, Measured \_\_\_\_\_ feet

Drilling method cable

Hole and casing data 16' of 14" casing 0-16'; 61' of 10" casing 0-61'  
61' of 14" hole; 10" hole 61-210'

Original depth to water \_\_\_\_\_ ft. <sup>above</sup> / <sub>below</sub> \_\_\_\_\_ Date \_\_\_\_\_

Original elevation of water level \_\_\_\_\_ ft.; Source of data \_\_\_\_\_

Sources of water: Principal \_\_\_\_\_ ; Others \_\_\_\_\_



Production data: \_\_\_\_\_ Date \_\_\_\_\_

Static depth to water 16 \_\_\_\_\_ Measuring point \_\_\_\_\_  
Pumping level 59 \_\_\_\_\_ at 818 \_\_\_\_\_ g.p.m.

Specific capacity \_\_\_\_\_ 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 \_\_\_\_\_

WATER ANALYSES (in parts per million)

Date samples	<u>Oct. 20, 1937</u>	_____	_____
Sampled by	<u>H.W. Posten</u>	_____	_____
Total solids	<u>259.0</u>	_____	_____
Insoluble matter	<u>24.0</u>	_____	_____
Alkalinity (Meo)	<u>174.0</u>	_____	_____
Alkalinity (Phn)	<u>0.0</u>	_____	_____
pH	<u>6.9</u>	_____	_____
Fe <sub>2</sub> O <sub>3</sub> + Mn <sub>2</sub> O <sub>3</sub> +Al <sub>2</sub> O <sub>3</sub>	<u>1.6</u>	_____	_____
Alkali as sodium	<u>11.8</u>	_____	_____
Calcium	<u>57.7</u>	_____	_____
Magnesium	<u>15.8</u>	_____	_____
Iron (unfiltered)	<u>0.2</u>	_____	_____
Manganese	<u>0.00</u>	_____	_____
Nitrate	<u>35</u>	_____	_____
Fluoride	<u>0.0</u>	_____	_____
Chloride	<u>10.0</u>	_____	_____
Sulfate	<u>31.3</u>	_____	_____
Bicarbonate	<u>212.3</u>	_____	_____
Hardness (ppm)	<u>209</u>	_____	_____
Hardness (gpg)	<u>12.2</u>	_____	_____

Remarks \_\_\_\_\_

Laboratory data: \_\_\_\_\_ Sample storage location \_\_\_\_\_

Sample range 0-217 \_\_\_\_\_ No. spls. 22 \_\_\_\_\_ No. dupls. & cond. 21 - Good \_\_\_\_\_

Spls. prepared by \_\_\_\_\_ Washed range \_\_\_\_\_ by \_\_\_\_\_

Driller's log and cond. \_\_\_\_\_

Insoluble residues: Prepared by \_\_\_\_\_ Studied by \_\_\_\_\_ Strip log \_\_\_\_\_

Microscopic study Schubert \_\_\_\_\_ strip log \_\_\_\_\_

Gen. log \_\_\_\_\_ Correl. by \_\_\_\_\_

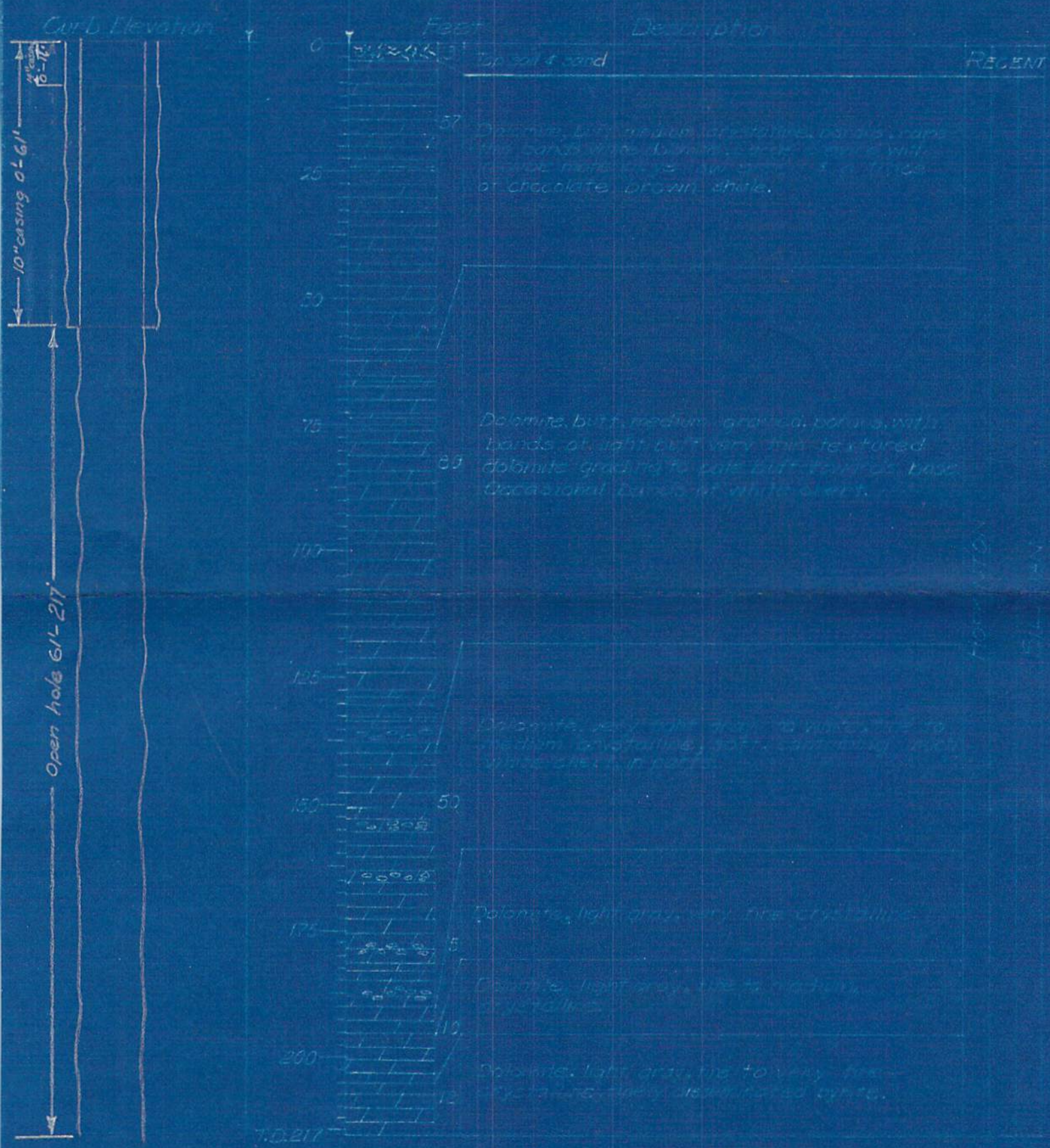


MANCHESTER, IOWA  
CITY WELL No. 3

W-0661

Vertical Scale: 1" = 25'

Elevations referred to sea level  
Depth, in feet, below curb



Contractor:  
BERT SHARFF  
Mason City, Iowa

Samples interpreted & log  
prepared by  
IOWA GEOLOGICAL SURVEY  
IOWA CITY