

field located
Kastin 1978

8478

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

RECORD OF WELL

Location: EAST SIDE OF TOWN

Town: Marion (NE) (SW) : County Linn

SE SE NE NE E.
NW SE NE sec. 6 T. 83 N., R. 6 W. Twp.

Well name and number _____

Owner City of Marion #3 Address _____

Tenant _____ Address _____

Contractor HOEG & AMES Address LINCOLN, IOWA.

Drillers _____

Drilling dates JULY 1957 - FEB 8, 1958

Well data: topo elev. 855'
Altitudes: Drilling curb _____ feet; Land surface _____ feet

Determined by _____

Topographic position _____

Total depth: Reported 1663' feet, Measured _____ feet

Drilling method CABLE TOOLS

Hole and casing data

<u>73'</u> OF <u>12"</u> OD CASING	<u>0-73'</u>
<u>110'</u> OF <u>12"</u> ID CASING	<u>0-110'</u>
<u>100'</u> OF <u>11"</u> ID CASING	<u>300-400'</u>
<u>318'</u> OF <u>10"</u> ID CASING	<u>0-318'</u>
<u>835'</u> OF <u>8"</u> ID CASING	<u>318'-1153'</u>

Original depth to water 197.29 ft. above _____ below _____ Date _____

Source of data _____

Sources of water: Principal PRAIRIE du CHIEN; JORDAN; ST. LAWRENCE

Others _____

Production Data

Date _____
 Static water level 197.29
 Measuring point _____
 Pumping water level 243.30
 Yield (g. p. m.) 710
 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)

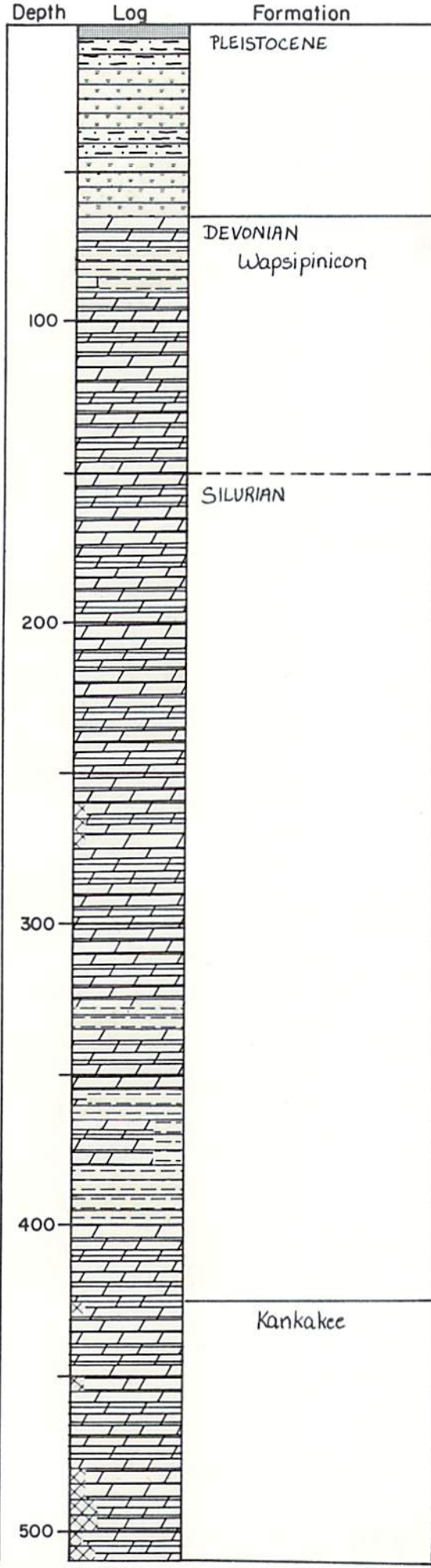
Date sampled _____
 Sampled by _____
 Silica (SiO₂) _____
 Iron (Fe) _____
 Manganese (Mn) _____
 Calcium (Ca) _____
 Magnesium (Mg) _____
 Potassium (K) _____
 Sodium (Na) _____
 Carbonate (CO₃) _____
 Bicarbonate (HCO₃) _____
 Sulfate (SO₄) _____
 Chloride (Cl) _____
 Fluoride (F) _____
 Nitrate (NO₃) _____
 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 3478** Sample range 0-510 No. of samples 99 **W/10-13 NB2-2,3,4**
 No. of dupls. and cond. 97 Good Washed range 90-370
 Samples prepared by R. Sargeant, L. Dunn Date 9/12/57
 Logged by NORTHUP R. Valantine Date FEB. 1958
 Correlations by _____ Date _____

W 8478

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IOWA GEOLOGICAL SURVEY In Cooperation with U. S. GEOLOGICAL SURVEY Iowa City, Iowa	
Name <i>City of Marion #3</i>	State <i>Iowa</i>
Town <i>Marion</i> County <i>Linn</i>	Loc. <i>NWSENE</i>
Contractor Driller <i>Hoeg + Ames</i>	Sec. <i>C</i>
Drilling Dates <i>July 1957 to Feb. 8, 1958</i>	T. <i>83 N., R. 6 W.</i>
Casing Record <i>73' of 20" OD csg. = 0'-73'</i> <i>110' of 12" ID csg. = 0'-110'</i> <i>100' of 11" ID csg. = 300'-400'</i> <i>835' of 8" ID csg. = 318'-1153'</i> <i>318' of 10" ID csg. = 0'-318'</i>	
S.W.L. <i>197.29 G.P.M. 710 D.D. 46.01</i>	
Remarks <i>Main water - Prairie du Chien, Jordan, St. Lawrence.</i>	
	Elev. <i>861</i>
	T.D. <i>1663</i>
Logged By <i>Northup Feb. 1958</i>	I.G.S. No. <i>W-8478</i>

- Explanation of Colors
- Soil
 - Loess, Silt on Siltstone
 - Drift
 - Sand & Gravel
 - Shale
 - Sandstone
 - Limestone
 - Dolomite
 - Chert
 - Gypsum or Anhydrite
 -
 - No Samples

