

#17311

IOWA GEOLOGICAL SURVEY
In-Cooperation with U.S. Geological Survey
RECORD OF WELL

W. OF HIGHWAY 218
Location: N.W. OF RANCH SUPPER CLUB

Town: COU FALLS (NE) County JOHNSON
(SW)

NW SW NW SW Sec. 16, T. 81, N. 7, R. 7 (W) JEFFERSON Twp.

Well name and number _____

Owner A. J. JOHNSON
(TIMBERLAKE ESTATES)

Address _____

Tenant _____

Address _____

Contractor D. E. EDWARDS

Address WEST BRANCH

Drillers WAYNE SMITH

Drilling dates Nov. '64

Well data:

Altitudes: Drilling curb _____ feet; Land surface 810 feet

Determined by Jopo

Topographic position _____

Total depth: Reported 390 feet; Measured 391 feet

Drilling method ROTARY

Hole and casing data 5"

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

Source of data _____

Sources of water: Principal _____
Others _____

PRODUCTION DATA

Date _____
Static water level _____
Pumping water level _____
Yield (g.p.m.) _____
Measuring point _____
Duration of pumping _____
Specific capacity _____

LABORATORY DATA

Well No. **#17311** Sample range **188-391** No. of samples **19**
No. of dupls. and cond. _____ Washed range **188-391**
Samples prepared by **LOVETT** Date **3/12/65**
Logged by **NORTHUP** Date **11/24/65**
Correlations by _____ Date **11/24/65**

STATE HYGIENIC LABORATORY, DES MOINES BRANCH

LAB. NO. 1434

017311

WATER LABORATORY DIVISION

MINERAL NO. 4760

MINERAL ANALYSIS

12 Jan 1964

TOWN Cou Falls COUNTY Johnson
OWNER OF SUPPLY A J Johnson
COLLECTOR'S NAME Iowa Geological Survey (J W C)
DATE COLLECTED 30 Nov 1964 DATE RECEIVED 4 Dec 1964
REPORT TO: NAME Iowa Geological Survey
ADDRESS Iowa City, Iowa

FIELD DATA

SOURCE: WELL NAME, NUMBER, POINT OF COLLECTION, DEPTH, CONSTRUCTION DATE, ETC.,
A J Johnson, No. 1, at pump, 390 ft deep, drilled Nov 1964.

WELL PUMPED 3 HRS. AT 15 GPM. DATE OF PREVIOUS SAMPLE None
WAS SAMPLE FREE OF TURBIDITY WHEN COLLECTED Yes
TEMPERATURE °C 54 F ALKALINITY (ppm CaCO₃) P _____ T _____ pH _____
IS A POLYPHOSPHATE BEING USED? _____

LABORATORY ANALYSIS
(PARTS PER MILLION)

SPECIFIC CONDUCTANCE K AT 25°C 72.5 x 10⁻⁵ TURBIDITY _____
DISSOLVED SOLIDS 427 SOLUBLE IRON (Fe) 0.22
TOTAL SOLIDS 427 SILICA (SiO₂) 11.8 TOTAL IRON (Fe) 0.22
ALKALINITY (ppm CaCO₃) P None T 298 pH 7.2 DATE 4 Dec 1964

POSITIVE IONS

K⁺ 5.8
Na⁺ 15.4
Ca⁺⁺ 85.2
Mg⁺⁺ 36.0
Mn⁺⁺ < 0.05
Al⁺⁺⁺ x

NEGATIVE IONS

NO₃⁻ 0.1
F⁻ 0.3
Cl⁻ 10
SO₄⁻⁻ 85.8
HCO₃⁻ 364
CO₃⁻⁻ None

HARDNESS AS CaCO₃ 361 ppm 21.1 gpg

Slightly cloudy on receipt in lab.

ANALYST Ryan

R. L. MORRIS
PRINCIPAL CHEMIST

bw

STATE HYGIENIC LABORATORY, DES MOINES BRANCH
WATER LABORATORY DIVISION
MINERAL ANALYSIS

017311

LAB. NO. 2128
MINERAL NO. 4791
25 Feb 19 65

TOWN Cou Falls COUNTY Johnson
OWNER OF SUPPLY A J Johnson
COLLECTOR'S NAME Iowa Geological Survey (LLS)
DATE COLLECTED 16 Feb 1965 DATE RECEIVED 19 Feb 1965
REPORT TO: NAME Iowa Geological Survey
ADDRESS Iowa City, Iowa

FIELD DATA

SOURCE: WELL NAME, NUMBER, POINT OF COLLECTION, DEPTH, CONSTRUCTION DATE, ETC.,
A J Johnson Collected at end of discharge pipe 10 ft from
pump. T.D. 345 ft. Drilled Nov 1964.
WELL PUMPED 2 1/3 HRS. AT 60 GPM. DATE OF PREVIOUS SAMPLE _____
WAS SAMPLE FREE OF TURBIDITY WHEN COLLECTED Yes
TEMPERATURE °C 56 F ALKALINITY (ppm CaCO₃) P _____ T _____ pH _____
IS A POLYPHOSPHATE BEING USED? No

LABORATORY ANALYSIS
(PARTS PER MILLION)

SPECIFIC CONDUCTANCE K AT 25°C 89.2 x 10⁻⁵. TURBIDITY _____
DISSOLVED SOLIDS 594 SOLUBLE IRON (Fe) 1.1
TOTAL SOLIDS 594 SILICA (SiO₂) 12.0 TOTAL IRON (Fe) 1.1
ALKALINITY (ppm CaCO₃) P None T 298 pH 7.4 DATE 19 Feb 1965

POSITIVE IONS

K⁺ 4.0
Na⁺ 22.2
Ca⁺⁺ 110
Mg⁺⁺ 43.7
Mn⁺⁺ < 0.05
Al⁺⁺⁺ _____

NEGATIVE IONS

NO₃⁻ < 0.1
F⁻ 0.3
Cl⁻ < 0.5
SO₄⁻⁻ 208
HCO₃⁻ 364
CO₃⁻⁻ None

HARDNESS AS CaCO₃ 456 ppm 26.6 gpg

ANALYST Schwabbauer, Pierson

R. L. MORRIS
PRINCIPAL CHEMIST

bw

STATE HYGIENIC LABORATORY, DES MOINES BRANCH

WATER LABORATORY DIVISION

MINERAL ANALYSIS

LAB. NO. 1031

MINERAL NO. 5550

5 Jan 1967

017311

TOWN Cou Falls COUNTY Johnson
OWNER OF SUPPLY A J Johnson
COLLECTOR'S NAME A J Johnson
DATE COLLECTED Assume 24 Oct 1966 DATE RECEIVED 27 Oct 1966
REPORT TO: NAME H G Hershey
ADDRESS Iowa Geological Survey, Iowa City, Iowa

FIELD DATA

SOURCE: WELL NAME, NUMBER, POINT OF COLLECTION, DEPTH, CONSTRUCTION DATE, ETC.,
A J Johnson Timberlake Estates Sec 17-T81N-R7W, Johnson Co
well drilled in November 1964 TD=391' cased to 200'±
WELL PUMPED _____ HRS. AT _____ GPM. DATE OF PREVIOUS SAMPLE 1964
WAS SAMPLE FREE OF TURBIDITY WHEN COLLECTED Not Stated
TEMPERATURE °C _____ ALKALINITY (ppm CaCO₃) P _____ T _____ pH _____
IS A POLYPHOSPHATE BEING USED ? _____

LABORATORY ANALYSIS
(PARTS PER MILLION)

SPECIFIC CONDUCTANCE K AT 25°C 110 x 10⁻⁵ TURBIDITY _____
DISSOLVED SOLIDS 814 SOLUBLE IRON (Fe) 3.9
TOTAL SOLIDS 814 SILICA (SiO₂) 14 TOTAL IRON (Fe) 3.9
ALKALINITY (ppm CaCO₃) P None T 311 pH 7.3 DATE 27 Oct 1966

POSITIVE IONS

K⁺ 4.8
Na⁺ 33
Ca⁺⁺ 142
Mg⁺⁺ 53.5
Mn⁺⁺ 0.06
Al⁺⁺⁺ _____

NEGATIVE IONS

NO₃⁻ as N 0.4
F⁻ 0.35
Cl⁻ 1
SO₄⁻⁻ 350
HCO₃⁻ 379
CO₃⁻⁻ None

HARDNESS AS CaCO₃ 575 ppm 33.6 gpg

No turbidity observation by collector.

Slightly cloudy on receipt in lab.

ANALYST Ryan, Pierson

R. L. MORRIS

DWE
cmb

PRINCIPAL CHEMIST