

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

No samples

RECORD OF WELL

Location:

Town: Cherokee (NE)
(SW): County Cherokee

SE-SW sec. 26 T 92 N., R. 40 W. Cherokee Twp.

	26	
	x	

Well name and number Cherokee City #2 South East End Main St.

Owner _____ Address _____

Tenant _____ Address _____

Contractor E.R. ByouRE Address Cherokee

Drillers _____

Drilling dates drilled to 98' in 1911 - deepened Nov. 1912

Well data:

Elevations: Drilling curb 1175.5 feet; Land surface _____ feet

pump house floor

Determined by _____

Topographic position River terrace

Total depth: Reported 200' 6" feet, Measured _____ feet

Drilling method _____

Hole and casing data 10" diameter

79' of 10" casing

60' of 8" casing with 19' overlap

80' of open hole

Original depth to water 12 ft. ^{above} below ground Date 1912

Original elevation of water level 1168 ft.; Source of data _____

Sources of water: Principal Dakota 120-200; Others _____

LOG

Vertical scale

0-16	Black soil
16-36	Sand & gravel
36-38	Gravel & boulders
38-50	Blue clay
50-80	gray & black sand
80-100	light gray sandstone
100-125	white sandstone
125-150	Sandstone, more porous than above
150-180	Sandstone, light yellow
180-195	Sandstone, brown
195-198	" light yellow
198-201	gravel at bottom

Production data:

Date

1935

Static depth to water

18

Measuring point

below pump plate

Pumping level

3.5

at

673

g.p.m.

Specific capacity

g.p.m. per ft. drawdown; Temperature

50 °F.

Pump data:

Type pump

Turbine

Column Dia.

7 1/2"

Length

91'

Cylinder or bowls: Dia.

Length

4' 5 1/2"

Suction pipe

10'

Power

Electric

Airline

105' 5 1/2"

Estimated rate of production:

g.p.m. for

hrs. a day

Use of water

city supply

WATER ANALYSES (in parts per million)

Date samples

Aug. 20, 1936

Sampled by

A.C. Tester

Total solids

979.0

Insoluble matter

30.0

Alkalinity (Meo)

295.0

Alkalinity (Phn)

0.0

pH

7.1

Fe₂O₃ + Mn₂O₃ + Al₂O₃

2.2

Alkali as sodium

22.66

Calcium

110.62

Magnesium

26.20

Iron (unfiltered)

0.7

Manganese

0.10

Nitrate

7.40

Fluoride

0.0

Chloride

7.0

Sulfate

106.80

Bicarbonate

359.90

Hardness (ppm)

386.0

Hardness (gpg)

Remarks

Slight H₂S odor

Laboratory data:

Sample storage location

Sample range

None

No. spls.

No. dupls. & cond.

Spls. prepared by

Washed range

by

Driller's log and cond.

Yes good

Insoluble residues: Prepared by

Studied by

Strip log

Microscopic study

strip log

Gen. log

Correl. by

copied from driller's log

12-11-1953 (in parts per million)

100