

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

W-0997

RECORD OF WELL

Location:

Town: Menona (N E)
(S W); County Clayton
NE/4 sec. 14 T. 95 N., R. 5 W. Menona Twp.

			0
	14		

Well name and number Interstate Power Co. #2

Owner Interstate Power Company Address _____

Tenant _____ Address _____

Contractor C. W. Varner Address Dubuque

Drillers _____

Drilling dates 1932(?)

Well data:

Elevations: Drilling curb 1216 feet; Land surface _____ feet

Determined by _____

Topographic position Upland

Total depth: Reported _____ feet, Measured 815 feet

Drilling method _____

Hole and casing data 46' of 12" casing 0-46' 408' of 10" casing 0-408'

(Give amount, size, kind, and depth of all casing; type and position of seals and packers; cementing; how finished--perforated pipe, screen, gravel pack, open hole, etc.)
10" open hole from 408'-815'

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

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

Sources of water: Principal Jordan; Others S. Peter

Production data:

Date _____

Static depth to water 427

Measuring point _____

Pumping level 510at 327 g.p.m.Specific capacity _____ g.p.m. per ft. drawdown; Temperature 52 3/4 °F.Pump data; Type pump Turbine Column Dia. _____ Length 550Cylinder or bowls: Dia. _____ Length _____ Suction pipe 10Power Electric Airline _____

Estimated rate of production: _____ g.p.m. for _____ hrs. a day

Use of water _____

WATER ANALYSES (in parts per million)

Date sampled March 27, 1937Sampled by J.C. TesterTotal solids 257.0Insoluble matter 10.2Alkalinity (Meo) 210.0Alkalinity (Phn) 0.0pH 7.1 $\text{Fe}_2\text{O}_3 + \text{Mn}_2\text{O}_3 + \text{Al}_2\text{O}_3$ 2.8Alkali as sodium 9.5Calcium 66.8Magnesium 21.4Iron (unfiltered) —Manganese —Nitrate 0.22Fluoride Tr.Chloride 9.0Sulfate 39.1Bicarbonate 256.2Hardness (ppm) 255.0Hardness (gpg) 15.0

Remarks _____

Laboratory data:

Sample storage location _____

Sample range 50-815No. spls. 86No. dupls. & cond. 0

Spls. prepared by _____

Washed range _____

by _____

Driller's log and cond. _____

Insoluble residues: Prepared by _____

Studied by _____

Strip log _____

Microscopic study Sulf.strip log Sulf.

Gen. log _____

Correl. by Sulf.

C O P Y

THE STATE UNIVERSITY OF IOWA

STATE HYGIENIC LABORATORIES

IOWA CITY, IOWA

Mr. O. J. Welter,
Monona, Iowa

SANITARY WATER ANALYSIS
Parts in 1,000,000

Laboratory No 100629

Jan. 9, 1936

From Monona (collected by O.J. Welter)

Source of Sample Drilled well 815' water level 437' City supply

Date Collected Dec. 30, 1935

Date Received - Dec. 31, 1935

Odor very slight earthy

Color - None

Turbidity - None

Sediment - None

Ammonia Nitrogen - .024

Albuminoid Nitrogen - .000

Organic Nitrogen - x

Nitrite Nitrogen - .002

Nitrate Nitrogen - 0.1

Phosphate (as P O) - X

Chloride (as Cl) - 9.

Sulfate (as SO) - x

Fluoride (as F) - 0

Alkalinity: to Methyl Orange - 212. to Phenolphthalein - x

Calcium (as CA) - x

Magnesium (as Mg) -

Iron (as FE) - x

Manganese (as Mn) - x

Bacteria per ml. at 37°C on litmus lactose agar 0 ; 0

Acid Colonies - 0 ; 0

Bacteria per ml. at 20°C on plain nutrient agar 1 ; 0

Gas-forming bacteria in lactose broth at 37°C:

0.1 ml. water. No. plantings	1	No. positive tests in 24 hours - 0	in 48 hrs. 0
1 ml. water. No. plantings	1	No. positive tests in 24 hours - 0	in 48 hrs. 0
10 ml. water. No. plantings	5	No. positive tests in 24 hours - 0	in 48 hrs. 0

Colon-Aerogenes group organisms - Absent in quantity examined.

Remarks: Satisfactory at this time.

Jack J. Herman, Jr.
Chief, Water Laboratory Division



INTERSTATE POWER COMPANY

Dubuque, Iowa
Apr. 23, 1937.

Dr. A.C. Tester,
Iowa Geological Survey,
103 Geology Bldg.,
Iowa City, Iowa

Dear Sir:

We have your letter of March 31st, directed to Mr. Wuerth at Decorah, Iowa requesting details on the No.2 well at Monona. Mr. Wuerth asked Mr. Dupont to give you the information requested but, unfortunately, the latter has been gravely ill at Rochester and the matter has been delayed.

From our records we will herein attempt to answer your questions. We are sorry that this has not been attended to sooner.

When the No.2 well was put down, no log was kept by the driller. Through carelessness on the part of the company representatives, no samples were saved and sent in. It is unfortunate that such is the case and we can only say that a similar situation will not develop again. However, we are assured by everyone having anything to do with the hole that the formations encountered were very much the same as those found in the No.1 well of which an accurate log was kept. We are attaching a print of the log from the No.1 well which may be of some value in your study. The two holes are less than 50' apart.

The size of the hole and casing installed follows-

From the surface to the Galena Dolomite, the drift is cased out with 46 feet of 12" casing. This casing is merely landed on the dolomite at the 46' level- no attempt to secure a seal was made. ✓

The hole was continued at 12" through the rock formations to the 408' level where the 10" casing was seated using a drive shoe. Thus the well is cased 10" from the surface to the 408' level and is apparently sealed in the St. Peter Sandstone.

From the bottom of the casing the hole was continued at 10" to the 815' level. Between the 408' and the 815' levels, the hole is uncased.



INTERSTATE POWER COMPANY

- 2 -

Static water level is at 427'; Draw down, pumping
at the rate of 327 g.p.m., is to the 510' level.✓

Thanking you for your interest in this matter, we
are

Yours very truly,

INTERSTATE POWER COMPANY,

E. A. Wisco, Operating Engineer,

E. A. Wisco

C.H.M- MD.