7½' Wellsburg Quad
422609 0928526-01
88-18W-14 CCCC
1975 field located

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

W-1244

RECORD OF WELL



Location:

Town: Wellsburg (N E S W); County Grundy

SW/c NW sec. 14 T. 88 N., R. 18 E. W. Shiloh Twp.

Well name and number Wellsburg Town Well

Owner Town of Wellsburg Address

Tenant Address

Contractor Hoeg & Ames Address

Drillers Homer Rhodes

Drilling dates 1940

Well data:

Elevations: Drilling curb 1124 feet; Land surface feet

Determined by HGH

Topographic position

Total depth: Reported 785 feet, Measured feet

Drilling method

Hole and casing data 247' of 10" std casing
(Give amount, size, kind, and depth of all casing; type and
341' of 8" std casing from to 438'
position of seals and packers; cementing; how finished--perforated pipe, screen,
gravel pack, open hole, etc.)

Original depth to water ft. above/below Date

Original elevation of water level ft.; Source of data

Sources of water: Principal 160-180; Others

Production data: Date _____

Static depth to water 207 Measuring point curb

Pumping level 263 at 110 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 sampled	Sept. 11, 1940	Oct. 28, 1940	Dec 4 1940	
Sampled by	Hershey	L.G. Fiala	L.G. Fiala	
Total solids	2241.	556	1036	
Insoluble matter	15.0	25.0	22.0	
Alkalinity (Meo)	234.0	502.0	250.0	
Alkalinity (Phn)	0.0		0.0	
pH	7.1	8.0	7.4	
Fe_2O_3+ Mn_2O_3+Al_2O_3	6.0	10.0	4.0	
Alkali as sodium	5.9	58.1	56.6	
Calcium	422.3	62.2	165.1	
Magnesium	137.8	18.6	56.8	
Iron (unfiltered)	0.9	14.0	1.6	
Manganese	0.00	Trace	0.00	
Nitrate	0.00	0.00	0.00	
Fluoride	2.1	1.0	1.0	
Chloride	9.0	4.0	5.0	
Sulfate	1287.7	119.7	489.0	
Bicarbonate	285.5	968.4	305.0	
Hardness (ppm)	1623.0	257	649.	
Hardness (gpg)	94.9	15.	37.9	

Remarks _____

Laboratory data: Sample storage location _____

Sample range 0-265 No. spls. 133 No. dupls. & cond. 133 a good

Spls. prepared by Summerford Washed range _____ by _____

Driller's log and cond. _____

Insoluble residues: Prepared by _____ Studied by _____ Strip log _____

Microscopic study _____ strip log April '41 Conselman; March '41 Carmady; Sept 40 Ellas

Gen. log _____ Correl. by Conselman

11:25
Maple 850
275

Reported by Houser State Dept Health
Aug 24. He was in Wellsburg on Aug 22.

Wellsburg (Grundy) Elev est. 1125

Pleistocene Gravel	40	0	40	(From top of casing 1.5' above ground.
Clay	120	40	160	
Hampton Rock	20	160	180	(Water 20 gpm)
Maple Mill Shale	100	180	280	
Rock	27	280	307	
Rock & Shale		307	333 PD.	

19' of 12" to 19'

289' of 10" to 289'

IOWA GEOLOGICAL SURVEY
Iowa City, Iowa

DRILLING RECORD

Grundy

Contractor: Hoeg and Ames, Lincoln
Driller: Homer Rhodes

Wellsburg's Well

This was the old original well, drilled 40 years ago.

182' deep
120' static head

The well was originally cased ~~with~~ with 8" pipe and 40' of 6" pipe in bottom. No perforations were in the 6".

We cased the well from top to bottom with 6" Std. pipe perforating the bottom 20'.

A rubber packer was used and was set 39'8" from the bottom.

Cook 50 g.p.m. pump.

IOWA GEOLOGICAL SURVEY
Iowa City, Iowa

DRILLING RECORD

Folder

Contractor: Hoeg and Ames, Lincoln
Driller: Homer Rhodes

Wellsburg Town Well (located in S.W. corner of park)

247' 10" Std.
341' 8" Std.
207' to water
263' head at 110 g.p.m.
785' deep

There is a strata of limestone at 160' and is 20' thick which produced about 40 g.p.m.

After drilling through this strata shale was encountered and the bottom of the 8" was set at 438'. The water test 95 grains hardness.

IOWA GEOLOGICAL SURVEY
Iowa City, Iowa

DRILLING RECORD

Contractor: Hoeg and Ames, Lincoln
Driller: Homer Rhodes

Wellsburg Hole No. 1

The hole was plugged starting bridge at 615 feet and extending up to 590 feet.

A pumping test was run and a 100 g.p.m. was pumped.

Test was O.K. Cut hardness from 96 to 38 gpg and got rid of the fluorine. The 8" pipe was run to the top of the hole.

IOWA GEOLOGICAL SURVEY
Iowa City, Iowa

DRILLING RECORD

Contractor: Hoeg and Ames, Lincoln
Driller: Homer Rhodes

Wellsburg Hole No. 2

161' 8" Std.
181' deep

A pumping test was run and 15 g.p.m. was all it would pump with a complete drawdown.

IOWA GEOLOGICAL SURVEY
Iowa City, Iowa

DRILLING RECORD

Contractor: Hoeg and Ames, Lincoln
Driller: Homer Rhodes

Wellsburg Hole No. 3

49' deep

Sand and clay with some water at 7'.

IOWA GEOLOGICAL SURVEY
Iowa City, Iowa

DRILLING RECORD

Contractor: Hoeg and Ames, Lincoln
Driller: Homer Rhodes

Wellsburg Hole No. 4

175' deep rock

Almost no water. Could pump hole dry with bailer.

IOWA GEOLOGICAL SURVEY
Iowa City, Iowa

DRILLING RECORD

Contractor: Hoeg and Ames, Lincoln
Driller: Homer Rhodes

Wellsburg Hole No. 5

52' deep

Sand and very little water. A slotted pipe was put down for a screen but no results.