

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

W-3714

RECORD OF WELL

Location:

Town:

Independence

{ N E }
{ S W }

County

Buchanan

SW SE NE

sec. 34 T 89 N., R. 9 W.

Twp.

Well name and number

City Well No. 4

Owner

City of Independence

Address

Ind.

Tenant

Address

Contractor

Thorpe Well Co.

Address

D.M.

Drillers

Drilling dates

Sept to Nov 1948

Well data:

Elevations: Drilling curb 933? feet; Land surface

943'

933

feet

Determined by

Altimeter (J.G. Kling) Summer 1944

Topographic position

Total depth: Reported

293

feet, Measured

feet

Drilling method

Cable tool

Hole and casing data

34' of 16" csg. 0-34 ft.

Original depth to water

above

ft. below

Date

Original elevation of water level

ft.; Source of data

Sources of water: Principal

; Others

Production data:

Date _____

Static depth to water _____

Measuring point _____

Pumping level _____

at _____

g.p.m. _____

driller

40
108
1281360
1480

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 samples _____

Sampled by _____

Total solids _____

Insoluble matter _____

Alkalinity (Meo) _____

Alkalinity (Phn) _____

pH _____

 $\text{Fe}_2\text{O}_3 + \text{Mn}_2\text{O}_3 + \text{Al}_2\text{O}_3$ _____

Alkali as sodium _____

Calcium _____

Magnesium _____

Iron (unfiltered) _____

Manganese _____

Nitrate _____

Fluoride _____

Chloride _____

Sulfate _____

Bicarbonate _____

Hardness (ppm) _____

Hardness (gpg) _____

Remarks _____

Laboratory data:

Sample storage location CFI-6

Sample range 0'-295'

No. spls. 58

No. dupls. & cond. 58 F to G.

Spls. prepared by J.C.C.

Washed range 11'-295'

by J.C.C.

Driller's log and cond. _____

Insoluble residues: Prepared by _____

Studied by _____

Strip log _____

Microscopic study _____

strip log Huntington

Aug 29, 1949

Gen. log _____

Correl. by _____

W-3714

IOWA GEOLOGICAL SURVEY

Iowa City, Iowa

Well Log Record

Owner of well Independence City Well County Buchanan

Tenant _____ Town _____

Location _____ sec. _____, T. _____ N., R. _____ E. _____ W. _____ Twp. _____

Curb elevation _____ ft. depth _____ ft. depth 293 ft. finalStatic level: (Depth to water above curch) 40 ft. level 128 ft. at 1480 g.m. PumpingContractor Thompson Well Co. Date drilled Sept to Nov 1948

Description*	F E E T			Description*	F E E T		
	Thick	From	To		Thick	From	To
<u>yell clay</u>		<u>0</u>	<u>1 1/2</u>	<u>white ls (no cuttings)</u>		<u>190</u>	<u>198</u>
<u>Blk dirt</u>		<u>1 1/2</u>	<u>4</u>	<u>" " (little cuttings)</u>		<u>198</u>	<u>249</u>
<u>yell clay</u>		<u>4</u>	<u>11</u>	<u>white ls</u>		<u>249</u>	<u>260</u>
<u>sdry blue clay</u>		<u>11</u>	<u>20</u>	<u>light gray ls</u>		<u>260</u>	<u>268</u>
<u>broken ls.</u>		<u>20</u>	<u>30</u>	<u>white ls (little cuttings)</u>		<u>268</u>	<u>286</u>
<u>Brown + gr. ls.</u>		<u>30</u>	<u>90</u>	<u>Blue shale</u>		<u>286</u>	<u>293</u>
<u>Brown ls + gray</u>		<u>90</u>	<u>103</u>				
<u>Brown ls</u>		<u>103</u>	<u>110</u>				
<u>white ls</u>		<u>110</u>	<u>190</u>				

*Abbreviate descriptions; use one line for each formation.

Remarks on water zones and casings 38' of 16" pipe from 1' to 34'

Temperature: Air _____ °F., Water _____ °F. at _____ A.M. _____ P.M. _____ 19__

Record obtained from _____ Recorded by _____

COUNTY Buchanan (Independence)

NOTES: