

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

W-3861

RECORD OF WELL

Location:

Town:

Elkhart

(N E)
(S W)

County

Polk

E.

NESWSE

sec. 28T 81 N., R. 23 W.

Twp.

Well name and number

Elkhart Town Well

Owner

Address

Tenant

Address

Contractor

Verwers Well Co.

Address

Drillers

Drilling dates

Jan 24 - Feb 12 1949

Well data:

Elevations: Drilling curb

feet; Land surface

980

feet

Determined by

Topographic position

Total depth: Reported

238

feet, Measured

feet

Drilling method

Hole and casing data

6 1/4" Top - 232' 4"

Original depth to water

80

above

ft. below

curb

Date

Original elevation of water level

ft.;

Source of data

Sources of water: Principal

232-238

; Others

Production data: _____ Date _____

Static depth to water _____ Measuring point _____

Pumping level _____ at _____ 50 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 samples	_____	_____	_____	_____
Sampled by	_____	_____	_____	_____
Total solids	_____	_____	_____	_____
Insoluble matter	_____	_____	_____	_____
Alkalinity (Meo)	_____	_____	_____	_____
Alkalinity (Phn)	_____	_____	_____	_____
pH	_____	_____	_____	_____
Fe ₂ O ₃ + Mn ₂ O ₃ + Al ₂ 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 CP-7

Sample range 0-238 No. spls. 33 No. dupls. & cond. 33 Fort

Spls. prepared by EMR-RPC Washed range _____ by _____

Driller's log and cond. _____

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

Microscopic study EMR strip log Mar 21, 1949

Gen. log _____ Correl. by _____

IOWA GEOLOGICAL SURVEY
Iowa City, Iowa

W-3861

Well Log Record

Owner of well Elkhart Town County Polk

Tenant _____ Town Elkhart

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

Curb elevation _____ ft. depth _____ ft. depth 238 ft. Present final

Static level: (Depth to water ^{above} curb) 80 ft. level ? ft. at 50 g.m. Pumping

Contractor Vermers Well Co. Date drilled Jan 24-49 - Feb. 12-49

Description*	F E E T			Description*	F E E T		
	Thick	From	To		Thick	From	To
<u>Yellow Clay</u>		<u>0</u>	<u>10</u>				
<u>Blue Clay</u>		<u>10</u>	<u>40</u>				
<u>Yellow Clay</u>		<u>40</u>	<u>90</u>				
<u>Blue Clay</u>		<u>90</u>	<u>235</u>				
<u>Sand-Gravel</u>		<u>235</u>	<u>230</u>				
<u>Cemented Gravel</u>		<u>230</u>	<u>238</u>				
<u>(Conglomerate)</u>							

*Abbreviate descriptions; use one line for each formation.

Remarks on water zones and casings 6 1/4 Used - Top - 232-4"

232-238 Main H₂O

There are Samples on this well but the depth figures are obliterated due to rain etc. and accurate cuts are impossible - Samples uncut in basement.

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

Record obtained from E. Vermers Recorded by J B Cooper

Sample No.	DEPTH		THICKNESS
	From	To	
1	1	3	
2	3	6	
3	6	9	
4	9	12	
5	12	15	
6	15	20	
7	20	24	
8	24	30	
9	30	35	
10	35	40	
11	40	45	
12	45	50	
13	50	55	
14	55	60	
15	60	65	
16	65	70	
17	70	75	

Sample No.	DEPTH		THICKNESS
	From	To	
18	75	80	
19	80	85	
20	85	90	
21	90	95	
22	95	100	
23	100	105	
24	105	110	
25	110	115	
26	115	120	
27	120	125	
28	125	130	
29	130	135	
30	135	140	
31	140	145	
32	145	150	
33	150	155	
34	155	160	

Sample No.	DEPTH		THICKNESS
	From	To	
35	160	165	
36	165	170	
37	170	175	
38	175	180	
39	180	185	
40	185	190	
41	190	195	
42	195	200	
43	200	205	
44	205	210	
45	210	215	
46	215	220	
47	220	225	
48	225	230	
49	230	235	
50			