MUNICIPALITY: Elk Horn 1340 COUNTY: Shelby (83) 165

WELL NUMBER: 8

LOCATION: SE, SE, SE, SE, Sec. 2, T. 78 N., R. 37 W.

ELEVATION: 1250' ± 5' topo TOPOGRAPHIC MAP: Elk Horn 7½'

TOTAL DEPTH: 471 DIAMETER: TYPE: drilled
CONTRACTOR: Sunberg DATE COMPLETED: 6-1-66
CASING SCHEDULE:
clay grouted

S.W.L.: P.L.: PUMPING RATE: ¼ hr. 23 gpm (1977)
100 hr. 30 gpm (1966)

PUMP CAPACITY: submersible 30 gpm

MAIN WATER: glacial sands & clay UNIT: Alluvium 111 ALVM
GEOLOGY:

REMARKS:

MUNICIPAL AUTHORITY: Elk Horn Municipal Waterworks LaVern Frederickson, Supt.
P.O. Box 98
712-764-5081 Elk Horn, Ia. 51531

WATER USE: ,87,155 avg gpd (2-7-79--1-22-80) max gpd ,160,000 (- -)
POPULATION SERVED: ,740 POPULATION EQUIVALENT (@ 100 gpcd): ,872
1984 Elk Horn derives its water from wells # 79-1, 10, 9, 8 (this well), 6

TREATMENT: A, Fp, Cs, zeolite, V, potassium permanganate, post-chlorination

MINERAL NUMBER:	13020	5371	
DATE OF COLLECTION:	1-25-77	6-29-66	
pH	6.85	7.25	
dissolved solids	322.	335.	mg/liter
total solids	322.	335.	mg/liter
soluble iron	11.	12.	mg/liter
total iron	11.	12.	mg/liter
SiO_2	30.	30.	mg/liter
alkalinity as $CaCO_3$ P	none.	none.	mg/liter
alkalinity as $CaCO_3$ T	289.	232.	mg/liter
hardness as $CaCO_3$	289.	248.	mg/liter
K	1.6	2.4	mg/liter
Na	7.6	9.1	mg/liter
Ca	74.	66.4	mg/liter
Mg	20.	19.9	mg/liter
Mn	1.1	0.65	mg/liter
NO_3	<0.1	0.5	mg/liter
F	0.3	0.3	mg/liter
Cl	8.0	8.	mg/liter
SO_4	34.	33.5	mg/liter
HCO_3	279.	283.	mg/liter
CO_3	none.	none.	mg/liter
As	<0.01	.	mg/liter
Ba	0.4	.	mg/liter
Cd	<0.01	.	mg/liter
Cr	<0.01	.	mg/liter
Cu	0.02	.	mg/liter
Pb	<0.01	.	mg/liter
Hg	<0.001	.	mg/liter
Se	<0.01	.	mg/liter
Ag	<0.01	.	mg/liter
Zn	0.08	.	mg/liter
Ni	.	.	mg/liter
Sr	.	.	mg/liter
Al	.	.	mg/liter
gross alpha	1.6	.	picocuries/liter
Ra^{226}	.	.	picocuries/liter
Ra^{228}	.	.	picocuries/liter
gross beta	1.	.	picocuries/liter
Sr^{90}	.	.	picocuries/liter
specific conductance	520.	.	micromhos
temperature	9.	.	degrees C