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

WELL NUMBER: 3

LOCATION: SW, SW, NW, SW, SW, SW, Sec. 1, T. 78 N., R. 37 W. approx. 600' N of the east-west rural road.

ELEVATION: 1250' ± 3' topo TOPOGRAPHIC MAP: Elk Horn 7½'

TOTAL DEPTH: 46' DIAMETER: 24" TYPE: bored
CONTRACTOR: Sunborg DATE COMPLETED: 3- -55
CASING SCHEDULE:

26" & 30" concrete tile, grouted 20'

S.W.L.: P.L.: PUMPING RATE: ½ hr. 20 gpm (1963)

9 hr. 15 gpm (1957)

PUMP CAPACITY:

MAIN WATER: UNIT: Alluvium 111ALVM 1964 Public Water Supply
GEOLOGY: Sand and Gravel 111ALVM

REMARKS: 1965 report: still operable, recently abandoned.
filled 1967
Depth also reported 42'
Date also reported 12-49

MUNICIPAL AUTHORITY: Elk Horn Municipal Waterworks LaVern Frederiksen, 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, 6

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

MINERAL NUMBER:	4048	5107	
DATE OF COLLECTION:	4-8-63	2-12-57	
pH	7.0	7.7	
dissolved solids	344.	279.	mg/liter
total solids	344.	.	mg/liter
soluble iron	1.1	<0.05	mg/liter
total iron	1.1	9.8	mg/liter
SiO_2	17.6	31.0	mg/liter
alkalinity as $CaCO_3$ P	0.	0.	mg/liter
alkalinity as $CaCO_3$ T	194.	218.	mg/liter
hardness as $CaCO_3$	268.	231.	mg/liter
K	0.9	2.9	mg/liter
Na	10.1	9.2	mg/liter
Ca	73.6	58.5	mg/liter
Mg	20.4	20.4	mg/liter
Mn	0.11	0.39	mg/liter
NO_3	23.	1.0	mg/liter
F	0.25	0.3	mg/liter
Cl	11.5	7.0	mg/liter
SO_4	39.1	24.7	mg/liter
HCO_3	237.	266.	mg/liter
CO_3	0.	0.	mg/liter
As	.	.	mg/liter
Ba	.	.	mg/liter
Cd	.	.	mg/liter
Cr	.	.	mg/liter
Cu	.	.	mg/liter
Pb	.	.	mg/liter
Hg	.	.	mg/liter
Se	.	.	mg/liter
Ag	.	.	mg/liter
Zn	.	.	mg/liter
Ni	.	.	mg/liter
Sr	.	.	mg/liter
Al	.	.	mg/liter
gross alpha	.	.	picocuries/liter
Ra^{226}	.	.	picocuries/liter
Ra^{228}	.	.	picocuries/liter
gross beta	.	.	picocuries/liter
Sr^{90}	.	.	picocuries/liter
specific conductance	538.	425.	micromhos
temperature	11.	.	degrees C