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

WELL NUMBER: 6

LOCATION: NE, SW, SE, SE, SE, Sec. 2, T. 78 N., R. 37 W. 500' N, 400' W of intersection of County Road A and first rural road S. of town. 1 mile south of Elk Horn.

ELEVATION: 1255' I3' topo TOPOGRAPHIC MAP: Elk Horn 7½'

TOTAL DEPTH: 47' DIAMETER: TYPE: drilled
CONTRACTOR: Sunberg DATE COMPLETED: - - 1965
CASING SCHEDULE: 6" steel
gravel packed clay grouted

S.W.L.: P.L.: PUMPING RATE: ¼ hr. 23 gpm. (1977)
100 hrs. 20 gpm. (1966)

PUMP CAPACITY: submersible 30 gpm

MAIN WATER: glacial sand & clay UNIT: Alluvium IIIALVM
GEOLOGY:

REMARKS: depth also reported 48', 60'
date completed also reported 1966
SWL reported to be 48' in a 60' well by Sunberg, 1965 analysis

MUNICIPAL AUTHORITY: Elk Horn Municipal waterworks LaVern Fredericksen, supt.
P.O. Box 98
712-764-5081 Elk Horn, Ia. 51531

WATER USE: ,57 ,155 avg gpd (2-7-79--1-22-80) max gpd ,100,000 (- -)
POPULATION SERVED: , POPULATION EQUIVALENT (@ 100 gpcd): ,872
1984 Elk Horn derives its water from wells #79-1, 10, 9, 8, 6 (this well)

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

MINERAL NUMBER:	13018	5370	
DATE OF COLLECTION:	1-25-77	6-29-66	
pH	6.85	7.2	
dissolved solids	329.	303.	mg/liter
total solids	329.	303.	mg/liter
soluble iron	9.4	9.0	mg/liter
total iron	9.4	9.0	mg/liter
SiO_2	35.	33.6	mg/liter
alkalinity as $CaCO_3$ P	none.	none.	mg/liter
alkalinity as $CaCO_3$ T	228.	228.	mg/liter
hardness as $CaCO_3$	293.	232.	mg/liter
K	1.6	1.5	mg/liter
Na	7.2	8.6	mg/liter
Ca	75.	62.4	mg/liter
Mg	21.	18.5	mg/liter
Mn	1.5	1.0	mg/liter
NO_3	<0.1	0.5	mg/liter
F	0.3	0.3	mg/liter
Cl	6.5	5.	mg/liter
SO_4	36.	23.5	mg/liter
HCO_3	278.	278.	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	<0.01	.	mg/liter
Pb	<0.01	.	mg/liter
Hg	<0.001	.	mg/liter
Se	<0.01	.	mg/liter
Ag	<0.01	.	mg/liter
Zn	0.04	.	mg/liter
Ni	.	.	mg/liter
Sr	.	.	mg/liter
Al	.	.	mg/liter
gross alpha	3.1	.	picocuries/liter
Ra^{226}	0.9	.	picocuries/liter
Ra^{228}	.	.	picocuries/liter
gross beta	nil.	.	picocuries/liter
Sr^{90}	.	.	picocuries/liter
specific conductance	510.	479.	micromhos
temperature	9.	13.	degrees C