

MUNICIPALITY: Elk Horn

1340 COUNTY: Shelby (83)

165

WELL NUMBER: 11

C. 100' N. of well #10, just west of County road A.

LOCATION: SE, SE, NE, NE, NE, Sec. 11, T. 78 N., R. 37 W. 1 mile S. of Elk Horn

ELEVATION: 1235' ± 5' topo

TOPOGRAPHIC MAP: Elk Horn 7 1/2'

TOTAL DEPTH: 43'

DIAMETER:

TYPE: drilled

CONTRACTOR: Sunberg

DATE COMPLETED: - - 1971

CASING SCHEDULE: 32' of 6" PVC, clay grouted
6'02 7' of 6" PVC screen

S.W.L.:

P.L.:

PUMPING RATE:

1/4 hr. 13 gpm. (1972)

PUMP CAPACITY: submersible 8 gpm

MAIN WATER: glacial sand & clay UNIT: Alluvium MALVM

GEOLOGY:

REMARKS: 1984, well not in use.

MUNICIPAL AUTHORITY: Elk Horn Municipal Waterworks
P.O. Box 98
Elk Horn, Ia. 51531

LaVern Fredericksen, Supt.

712-764-5081

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: 9197
 DATE OF COLLECTION: 1-17-72 - -

pH	6.5	.	
dissolved solids	320.	.	mg/liter
total solids	320.	.	mg/liter
soluble iron	35.	.	mg/liter
total iron	11.	.	mg/liter
SiO ₂	39.	.	mg/liter
alkalinity as CaCO ₃ P	none.	.	mg/liter
alkalinity as CaCO ₃ T	204.	.	mg/liter
hardness as CaCO ₃	228.	.	mg/liter
K	2.0	.	mg/liter
Na	9.8	.	mg/liter
Ca	65.	.	mg/liter
Mg	17.	.	mg/liter
Mn	0.90	.	mg/liter
NO ₃	0.8	.	mg/liter
F	0.25	.	mg/liter
Cl	4.	.	mg/liter
SO ₄	37.	.	mg/liter
HCO ₃	249.	.	mg/liter
CO ₃	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	.	.	mg/liter
Se	.	.	mg/liter
Ag	.	.	mg/liter
Zn	0.27	.	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	460.	.	micromhos
temperature	12.	.	degrees C