

MUNICIPALITY: Elk Horn

1340 COUNTY: Shelby (83)

165

WELL NUMBER: 5

LOCATION: SW, SW, SW, SW, SW, SW, Sec. 1, T. 78 N., R. 37 W.

northeast corner of intersection
of County Road A and 1st
cross road south of town.

ELEVATION: 1245' ± 3' topo

TOPOGRAPHIC MAP: Elk Horn 7 1/2'

TOTAL DEPTH: 48'

DIAMETER:

TYPE: bored

CONTRACTOR: Sorenson

DATE COMPLETED: 4-26-58

CASING SCHEDULE: 48" tile

S.W.L.:

P.L.:

PUMPING RATE:

48 hrs 18 gpm (1963)

20 hrs 10 gpm (1959)

PUMP CAPACITY: positive displacement 18 gpm

MAIN WATER:

UNIT: A Navium 111ALVM

1964 Public Water Supply
Sand and gravel, 111ALVM

GEOLOGY:

REMARKS: 1972 report: abandoned, filled fall, 1971.

MUNICIPAL AUTHORITY: Elk Horn Municipal Waterworks

712-764-5081

P.O. Box 98

Elk Horn, Ia. 51531

LaVern Fredericksen, Supt.

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 , ✓ , potassium permanganate, post-chlorination

MINERAL NUMBER: 4047 1141
 DATE OF COLLECTION: 4-8-63 5-4-59

| | | | |
|-----------------------------------|-------|-------|------------------|
| pH | 7.0 | 6.9 | |
| dissolved solids | 299. | 303. | mg/liter |
| total solids | 299. | 303. | mg/liter |
| soluble iron | 13. | 29.8 | mg/liter |
| total iron | 13. | 29.8 | mg/liter |
| SiO ₂ | 38. | 35.6 | mg/liter |
| alkalinity as CaCO ₃ P | none. | none. | mg/liter |
| alkalinity as CaCO ₃ T | 208. | 228. | mg/liter |
| hardness as CaCO ₃ | 216. | 220. | mg/liter |
| K | 1.1 | 1.3 | mg/liter |
| Na | 8.5 | 8.0 | mg/liter |
| Ca | 59.2 | 57.1 | mg/liter |
| Mg | 16.5 | 18.8 | mg/liter |
| Mn | 1.2 | 11.0 | mg/liter |
| NO ₃ | <0.1 | 0.7 | mg/liter |
| F | 0.25 | 0.3 | mg/liter |
| Cl | 3.5 | 5.5 | mg/liter |
| SO ₄ | 11.4 | 7.4 | mg/liter |
| HCO ₃ | 254. | 278. | mg/liter |
| CO ₃ | none. | none. | 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 | 444. | 443. | micromhos |
| temperature | 12. | . | degrees C |