Chloride (Cl)

Nitrate (NO₃)

(Residue on evaporation at 180°C)

ing water. Water quality is so variable in the Lawton quad-

rangle, even within short distances, that it is impossible to

delineate quality by geographical area. The following tables

summarize results of laboratory analyses of ground water

collected from wells and springs throughout the quadrangle.

constituent of most oil-field brines. Some chloride is present

in almost all water, and small quantities are desirable for

human consumption, but excessive chloride renders water

Water that has been in contact with limestone and dolo-

unpalatable and tends to accelerate corrosion of metal.

MAXIMUM QUARTILE1 MEDIAN2 QUARTILE3 MINIMUM SAMPLES

1,950 1,370 425 174 8.8 16

27 24 10 4.9 3.0 11

Hardness as CaCO₃ 3.020 2.320 2.135 1.906 780 Sulfate (SO₄) 2,570 2,075 1,895 1,735 535

Dissolved solids 6,800 4,375 3,730 3,235 1,470 16

³Lower quartile—25 percent of the samples had a concentration less than the amount

REFERENCE CITED

OKLAHOMA STATE DEPARTMENT OF HEALTH, 1964, Standards for public water

supply facilities: Oklahoma Department of Health Engineering Bulletin

shown and 75 percent had more.